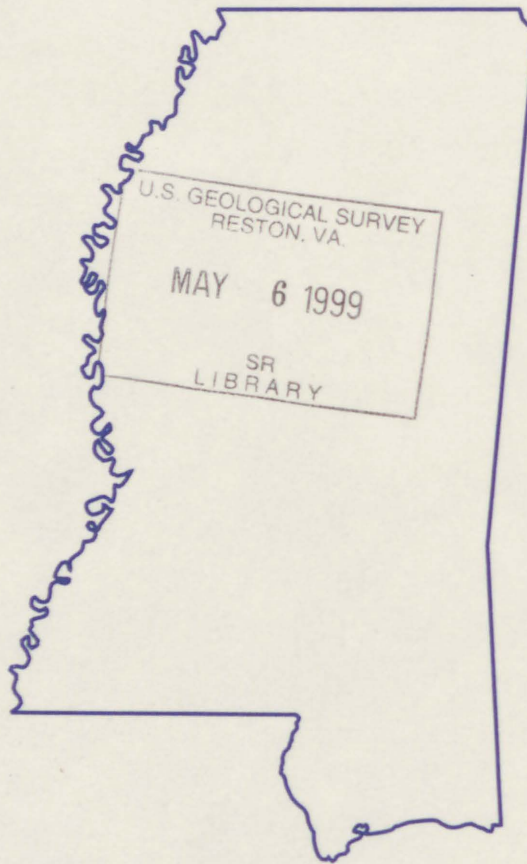


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# Water Resources Data Mississippi Water Year 1996



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT MS-96-1  
Prepared in cooperation with the Mississippi Department of  
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# CALENDAR FOR WATER YEAR 1996

1995

| OCTOBER |    |    |    |    |    |    | NOVEMBER |    |    |    |    |    |    | DECEMBER |    |    |    |    |    |    |
|---------|----|----|----|----|----|----|----------|----|----|----|----|----|----|----------|----|----|----|----|----|----|
| S       | M  | T  | W  | T  | F  | S  | S        | M  | T  | W  | T  | F  | S  | S        | M  | T  | W  | T  | F  | S  |
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| 8       | 9  | 10 | 11 | 12 | 13 | 14 | 5        | 6  | 7  | 8  | 9  | 10 | 11 | 3        | 4  | 5  | 6  | 7  | 8  | 9  |
| 15      | 16 | 17 | 18 | 19 | 20 | 21 | 11       | 12 | 13 | 14 | 15 | 16 | 17 | 10       | 11 | 12 | 13 | 14 | 15 | 16 |
| 22      | 23 | 24 | 25 | 26 | 27 | 28 | 19       | 20 | 21 | 22 | 23 | 24 | 25 | 17       | 18 | 19 | 20 | 21 | 22 | 23 |
| 29      | 30 | 31 |    |    |    |    | 26       | 27 | 28 | 29 | 30 |    |    | 24       | 25 | 26 | 27 | 28 | 29 | 30 |
|         |    |    |    |    |    |    |          |    |    |    |    |    |    | 31       |    |    |    |    |    |    |

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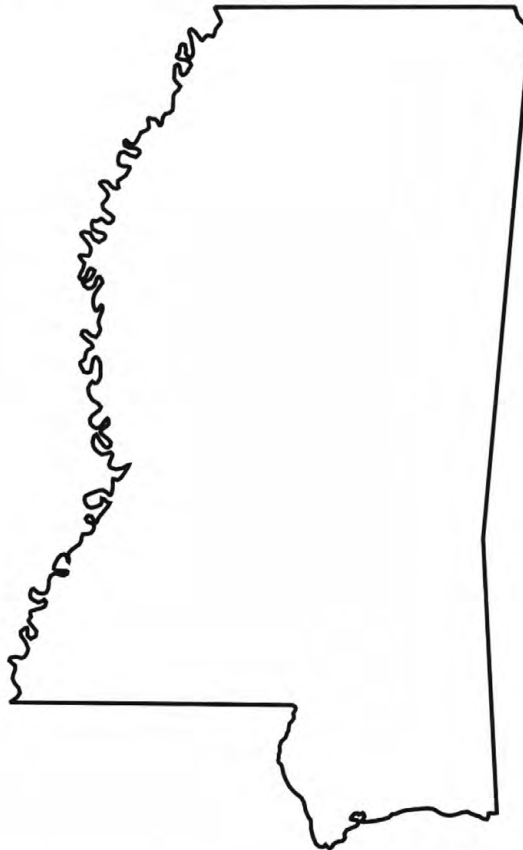
| JANUARY |    |    |    |    |    |    | FEBRUARY |    |    |    |    |    |    | MARCH     |    |    |    |    |    |    |
|---------|----|----|----|----|----|----|----------|----|----|----|----|----|----|-----------|----|----|----|----|----|----|
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| 14      | 15 | 16 | 17 | 18 | 19 | 20 | 11       | 12 | 13 | 14 | 15 | 16 | 17 | 10        | 11 | 12 | 13 | 14 | 15 | 16 |
| 21      | 22 | 23 | 24 | 25 | 26 | 27 | 18       | 19 | 20 | 21 | 22 | 23 | 24 | 17        | 18 | 19 | 20 | 21 | 22 | 23 |
| 28      | 29 | 30 | 31 |    |    |    | 25       | 26 | 27 | 28 | 29 |    |    | 24        | 25 | 26 | 27 | 28 | 29 | 30 |
|         |    |    |    |    |    |    |          |    |    |    |    |    |    | 31        |    |    |    |    |    |    |
| APRIL   |    |    |    |    |    |    | MAY      |    |    |    |    |    |    | JUNE      |    |    |    |    |    |    |
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| 14      | 15 | 16 | 17 | 18 | 19 | 20 | 12       | 13 | 14 | 15 | 16 | 17 | 18 | 9         | 10 | 11 | 12 | 13 | 14 | 15 |
| 21      | 22 | 23 | 24 | 25 | 26 | 27 | 19       | 20 | 21 | 22 | 23 | 24 | 25 | 16        | 17 | 18 | 19 | 20 | 21 | 22 |
| 28      | 29 | 30 |    |    |    |    | 26       | 27 | 28 | 29 | 30 | 31 |    | 23        | 24 | 25 | 26 | 27 | 28 | 29 |
|         |    |    |    |    |    |    |          |    |    |    |    |    |    | 30        |    |    |    |    |    |    |
| JULY    |    |    |    |    |    |    | AUGUST   |    |    |    |    |    |    | SEPTEMBER |    |    |    |    |    |    |
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| 28      | 29 | 30 | 31 |    |    |    | 25       | 26 | 27 | 28 | 29 | 30 | 31 | 29        | 30 |    |    |    |    |    |





# Water Resources Data Mississippi Water Year 1996

by M.L. Plunkett, F. Morris III, W.T. Oakley, and D.P. Turnipseed



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT MS-96-1  
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U.S. DEPARTMENT OF THE INTERIOR

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U.S. GEOLOGICAL SURVEY

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1997

## 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.



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Water resources data for the 1996 water year for Mississippi consist of records of surface water and ground water in the State. Specifically, it contains: (1) Discharge records for 88 streamflow-gaging stations, stage records for 19 of these gaging stations, discharge records for 66 partial-record or miscellaneous streamflow stations, including 7 flood hydrograph partial-record stations, 53 crest-stage partial-record stations, and 6 special study and miscellaneous sites; (2) stage only at 4 gaging stations; (3) water-quality records for 21 streamflow-gaging stations, 1 ungaged stream site, 2 partial-record or miscellaneous sites, 64 short-term study sites, and 26 wells; and (4) water-level records for 46 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.

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\*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.

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## GROUND-WATER RECORDS, BY COUNTY, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

## GROUND-WATER LEVELS

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## DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

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 near Moores Mill (d,e)              | 02430100       | 118.0                            | 1984-95          |
| 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          |
| 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          |
| Burkett Cr at Amory, MS (d)                    | 02433530       | 6.6                              | 1986-87          |
| Town Cr at Tupelo, MS (d)                      | 02434000*      | 111.0                            | 1964-67          |
|                                                |                |                                  | 1944-46          |
|                                                |                |                                  | 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          |
|                                                |                |                                  | 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          |
| Chuquatonchee Cr near West Point, MS (d)       | 02440500*      | 505.0                            | 1944-73          |
| Tibbee Cr near Tibbee, MS (d)                  | 02441000*      | 926.0                            | 1929-30          |
|                                                |                |                                  | 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 near Waynesboro, MS (d)         | 02477500       | 1650.0                           | 1939-50          |
| 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 Lyman, MS (d)                       | 02481500       | 253.0                            | 1945-48          |
| JOURDAN RIVER BASIN                            |                |                                  |                  |
| Catahoula Cr near Santa Rosa, MS (d)           | 02481570       | 155.0                            | 1962-66          |

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

| Station name                                       | Station number | Drainage area (mi <sup>2</sup> ) | Period of record   |
|----------------------------------------------------|----------------|----------------------------------|--------------------|
| PEARL RIVER BASIN                                  |                |                                  |                    |
| Lobutchia Cr near Carthage, MS (d)                 | 02482500       | 309.0                            | 1937-60            |
| Pearl River at Coal Bluff near Ratliff (e)         | 02484630       | 2595.0                           | 1981-95            |
| 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            |
| Strong at D'Lo, MS (d)                             | 02487500*      | 425.0                            | 1928-71            |
| 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            |
| Pearl R near Columbia, MS (d)                      | 02489000       | 5720.0                           | 1928-54            |
| Lower Little Cr near Baxterville, MS (d)           | 02489240       | 81.5                             | 1961-70            |
| West Hobolochitto Cr near McNeill, MS (d)          | 02492360*      | 175.0                            | 1965-68            |
| 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            |
| TUCSCUMBIA 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            |
| Little Tallahatchie R at Sardis, MS (d)            | 07272500       | 1545.0                           | 1950-74<br>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            |
| Tallahatchie 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            |
| Askamore 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<br>n         | 1973-80<br>1975-80                             |
| Mackeys Creek below Bay Springs Lock & Dam, MS | 02430012       | 68.2                             | s<br>k<br>h,t<br>n,o | 1978-80<br>1980, 1982-83<br>1980-83<br>1980-82 |
| Mackeys Creek near Moores Mill, MS             | 02430100       | 118                              | s<br>k,h,t,o         | 1980, 1982<br>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<br>t               | 1971-75<br>1971-72                             |
| Chickasawhay River at Enterprise, MS           | 02477000       | 918                              | k                    | 1971-73                                        |
| Pascagoula River at Merrill, MS                | 02479000       | 6,590                            | k<br>t               | 1970-75<br>1970-72                             |
| Pascagoula River near Benndale, MS             | 02479020       | 6,680                            | k<br>t               | 1976-81<br>1958-60, 1976-81                    |
| 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<br>n         | 1973-78<br>1976-78                             |
| Tenn-Tom Waterway at Cross Roads, MS           | 03592824       | -                                | k,h,t,n,o<br>s       | 1980-85<br>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<br>h             | 1986-87<br>1987                                |
| Otocalofa Creek Canal near Water Valley, MS    | 07274252 *     | 97.1                             | k,t,o<br>h           | 1985-87<br>1986-87                             |
| Peters (Long) Creek near Pope, MS              | 07275530 *     | 79.2                             | k,h,t                | 1987                                           |
| 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<br>s         | 1986-88<br>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                                        |
| Batupan Bogue at Grenada, MS                   | 07285400 *     | 240                              | k,h,t,o              | 1985-87                                        |
| 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                                           |
| Yazoo River at Redwood, MS                     | 07288800       | 12,603                           | k,t                  | 1978-81                                        |
| MISSISSIPPI RIVER MAIN STEM                    |                |                                  |                      |                                                |
| Mississippi River at Vicksburg, MS             | 07289000       | 1,140,500                        | k<br>t               | 1975-93<br>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 88 streamflow-gaging stations, stage records for 19 of these gaging stations, discharge records for 66 partial-record or miscellaneous streamflow stations, including 7 flood hydrograph partial-record stations, 53 crest-stage partial-record stations and 6 special study and miscellaneous sites, (2) stage only at 6 gaging stations, (3) water-quality records for 21 streamflow-gaging stations, 1 ungaged streamsite, 2 partial-record or miscellaneous sites, 64 short-term study sites, and 26 wells, and (4) water-level records for 46 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-95-1." 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, James I. Palmer, Jr., Executive Director.  
 Office of Land and Water Resources, Charles T. Branch, Director.  
 Office of Pollution Control, Charles H. Chisolm, Director.  
 Mississippi Department of Transportation, Kenneth Warren, Chief Engineer.  
 Mississippi Department of Agriculture and Commerce, Robert McCarty, Director.  
 Mississippi Soil and Water Conservation Commission, Gale Martin, Executive Director.  
 Pat Harrison Waterway District, Herlon D. Pierce, Executive Director.  
 Pearl River Basin Development District, Mike Davis, Executive Vice President.  
 Pearl River Valley Water Supply District, Kenneth Griffin, General Manager.  
 Yazoo Mississippi Delta Joint Water Management District, Dean Pennington, Executive Director.  
 Harrison County Board of Supervisors, Larry Benefield, President.  
 Harrison County Development Commission, Michael J. Olivier, Executive Director.  
 Jackson County Board of Supervisors, Larry Lee, President.  
 Jackson County Port Authority, Charles M. Persons, President.  
 City of Jackson, Kane Ditto, Mayor.

Assistance with funds or services was provided by the U. S. Army Corps of Engineers in collecting records for 49 streamflow-gaging stations, 3 crest-stage gages, and 22 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 normal in most streams in Mississippi during the 1996 water year. Comparisons of monthly mean and annual mean discharges in the 1995 water year with median values for the period 1961-90 were made for three representative gaging stations: Tombigbee River at Columbus 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 sites generally were within the normal range ( $\pm 25$  percent of the median or the reference period 1961-90) with the exceptions noted below.

Runoff of the Tombigbee River at Columbus Lock and Dam near Columbus was 20.54 inches for the water year, or 97 percent of the median annual runoff of 21.10 inches for the reference period 1961-90. Discharge was above normal in July and September, when the monthly mean discharges were 192, 250, and 285 percent of the median monthly means, respectively, for the reference period. Discharges were below normal in May, when the monthly mean discharge was 37 percent of the monthly median discharge for the reference period. Monthly mean discharges for other months were within the normal range.

Runoff of the Pascagoula River at Merrill was 16.94 inches for the water year, or 82 percent of the median annual runoff for the reference period (20.64 inches). Discharge was below normal in May and July, when the monthly mean discharges were 38 and 67 percent of the monthly median discharges, respectively, for the reference period. Monthly mean discharges for other months were within the normal range.

Runoff of the Big Black River near Bovina was 13.58 inches for the water year, or 77 percent of the median annual runoff for the reference period (17.67 inches). Discharge was above normal in the months of August and September, when the monthly mean discharges were 160 and 168 percent of the monthly median discharges, respectively, for the reference period. Monthly mean discharges for other months were within the normal range.

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 1996 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 1996

|                                                         | <u>Minimum</u> | <u>Median</u> | <u>Maximum</u> |
|---------------------------------------------------------|----------------|---------------|----------------|
| Dissolved-solids concentration, in milligrams per liter | 66             | 97            | 174            |
| Dissolved-oxygen concentration, in milligrams per liter | 1.0            | 5.4           | 9.3            |
| pH, in standard units                                   | 6.2            | 6.8           | 7.2            |

Ground-Water Levels

Ground-water levels in most artesian aquifers statewide continued long-term declines in the latter part of the 1996 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 1.

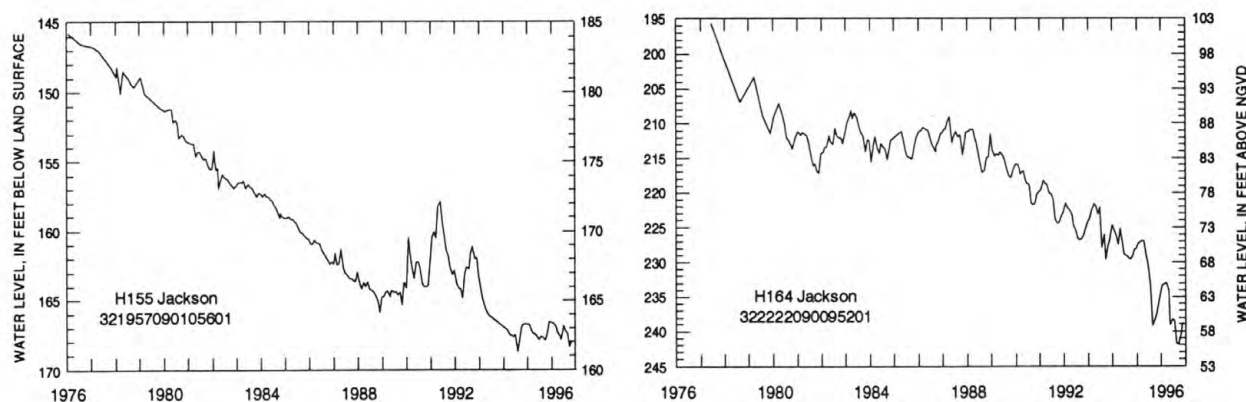


Figure 1.--Hydrographs of wells in the Cockfield and Sparta aquifers in the Jackson metropolitan area.



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 wells screened in deposits of Miocene age in southern Mississippi, water levels generally declined 1 foot, with the exception of a few sites near heavy withdrawals where water levels declined 1 to 2 feet. In wells screened in the Graham Ferry Formation along the Gulf coast, water levels declined less than 1 foot.

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 2 feet. Wells screened in the Sparta Sand indicated declines of 1 to 4 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 Bench-Mark 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.

The 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 USTS 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 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>

The National Trends Network (NTN) is a 150-station network for sampling atmospheric deposition in the United States. The purpose of the network is to determine the variability, both in location and in time, of the composition of wet atmospheric deposition, which includes snow, rain, sleet and hail. The core from which the NTN was built was the already existing deposition-monitoring network of the National Atmospheric Deposition Program (NADP).

The 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 1996 water year that began October 1, 1995, and ended September 30, 1996. 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 2 below.

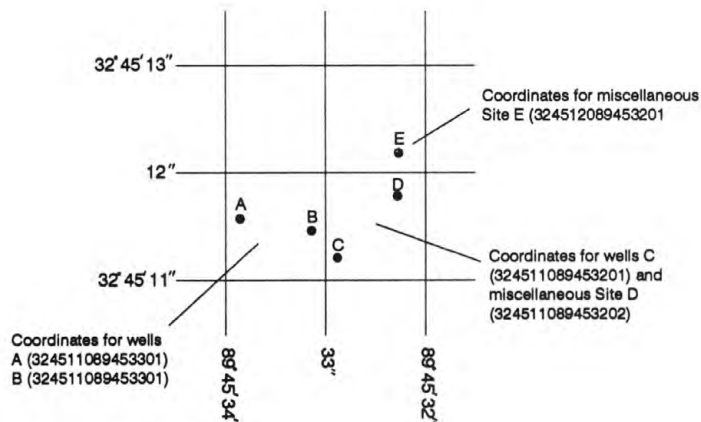


Figure 2.--System for numbering wells and miscellaneous sites (latitude and longitude).

### 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 4 and 5.

### 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 analog recorders that trace continuous graphs of stage or with digital recorders that punch stage values on paper tapes at selected time intervals. Measurements of discharge are made with current meters 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, Chapter 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 the current-meter 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 standard 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 "AC-FT"). 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 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 4.

### 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, Chap. 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

Sediment samples, samples for biochemical-oxygen demand (BOD), samples for indicator bacteria, and daily samples for specific conductance are analyzed locally. All other samples are analyzed in the Geological Survey laboratory in Arvada, Colorado. 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, WATSTORE, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. 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/<br>National Trends Network | 55555 | Individual                                                                      |
| 810   | Corps of Engineers, U.S. Army                                       | 66666 | Driller                                                                         |
| 1028  | U.S. Geological Survey                                              | 80020 | U.S. Geological Survey, National Water-<br>Quality Laboratory, Denver, Colorado |
| 1053  | National Park Service                                               | 81213 | U.S. Geological Survey, Water-Quality<br>Service Unit, Ocala, Florida           |
| 3315  | Tennessee Valley Authority                                          | 82213 | U.S. Geological Survey, Water-Quality<br>Service Unit, Baton Rouge, Louisiana   |
| 9728  | Mississippi Department of Health                                    | 99001 | Private Contractor                                                              |
| 28001 | Mississippi Office of Pollution Control                             | 99999 | Other                                                                           |
| 28002 | Mississippi Office of Geology                                       |       |                                                                                 |
| 28003 | Mississippi Office of Land and<br>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:

| <u>Sample Source</u>   | <u>Sampling Condition</u>          |
|------------------------|------------------------------------|
| 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 Variance

#### 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.

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 6.

## 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 the graph or punched tape of a water-stage recorder. The water-level measurements in this report are given in feet with reference to land-surface datum (lsd). 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 WATSTORE DATA

The U.S. Geological Survey is the principal Federal water-data agency and, as such, collects and disseminates about 70 percent of the water data currently being used by numerous State, local, private, and other Federal agencies to develop and manage our water resources. As part of the Geological Survey's program of releasing water data to the public, a large-scale computerized system has been developed for the storage and retrieval of water data collected through its activities. The National Water Data Storage and Retrieval System (WATSTORE) was established in 1972 to provide an effective and efficient means for the processing and maintenance of water data collected through the activities of the U.S. Geological Survey and to facilitate release of the data to the public. A variety of useful products, ranging from data tables to complex statistical analyses such as Log Pearson Type III, can be produced using WATSTORE. The system resides on the central computer facilities of the U.S. Geological Survey at its National Center in Reston, Virginia, and consists of related files and data bases.

- \* Station Header File - Contains descriptive information on more than 440,000 sites throughout the United States and its territories where the U.S. Geological Survey collects or had collected data.
- \* Daily Values File - Contains more than 220 million daily values of stream flows, stages, reservoir contents, water temperatures, specific conductances, sediment concentrations, sediment discharges, and ground-water levels.
- \* Peak Flow File - Contains approximately 500,000 maximum (peak) streamflow and gage height values at surface-water sites.
- \* Water Quality File - Contains approximately 2 million analyses of water samples that describe the chemical, physical, biological, and radio-chemical characteristics of both surface and ground water.

- \* Ground-Water Site Inventory Data Base - Contains inventory data for more than 900,000 wells, springs, and other sources of ground water. The data includes site location, geohydrologic characteristics, well-construction history and one-time field measurements such as water temperature.

In 1976, the U.S. Geological Survey opened WATSTORE to the public for direct access. The signing of a Memorandum of Agreement with the Survey is required to obtain direct access to WATSTORE. The system can be accessed either synchronously or asynchronously. The requester will be expected to pay all computer costs he/she incurs. Direct access may be obtained by contracting:

U.S. Geological Survey  
National Water Data Exchange  
421 USGS National Center  
Reston, Virginia 20192

## 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.

Acre-foot (AC-FT, acre-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 325,000 gallons, or 1,233 cubic meters.

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 measure of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter of the original water sample.

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

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.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, 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.

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 which produce blue colonies within 24 hours when incubated at  $44.5^{\circ}\text{C} \pm 0.2^{\circ}\text{C}$  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 also 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 which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at  $35^{\circ}\text{C} \pm 1.0^{\circ}\text{C}$  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. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at  $35^{\circ}\text{C}$ . 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  $35^{\circ}\text{C} \pm 1.0^{\circ}\text{C}$  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 fair-weather flow sustained by ground-water discharge.

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

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligram per liter, used 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 of 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  $500^{\circ}\text{C}$  for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter ( $\text{g}/\text{m}^3$ ), and periphyton and benthic organisms in grams per square meter ( $\text{g}/\text{m}^2$ ).



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

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

Bottom material: See Bed material.

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

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 natural water color 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.

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

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.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, 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 feet per second (ft<sup>3</sup>/s)<sup>1</sup> is the rate of discharge representing the volume of cubic feet passing a given point during 1 second. One cubic foot passing a given point during 1 second is equivalent to 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Cubic feet per second-day (ft<sup>3</sup>/d) is the volume of water represented by a discharge of cubic feet per second for 24 hours. One cubic foot per second for 24 hours is equivalent to 86,400 cubic feet, 1.9835 acre-feet, about 646,000 gallons, or 2,445 cubic meters.

Cubic feet per second per square mile [ft<sup>3</sup>/s)/m<sup>2</sup>]<sup>1</sup> is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment), that passes a given point within a given period of time.

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

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

Annual 7-day minimum is 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.)

Dissolved is that material in a representative water sample which passes through a 0.45 um membrane filter. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Dissolved oxygen (DO) The dissolved oxygen content of water in equilibrium with air is a function of atmospheric pressure, and 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 effect. Photosynthesis and respiration may cause diurnal variations in dissolved-oxygen concentration in water from some streams.

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<sup>1</sup> Until appropriate changes can be made to the WATSTORE and PRIME computer systems, the unit abbreviations "CFS" and "CFSM" will appear in some computer-generated table headings and summaries.

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 0.492 to reflect the change.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary 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 particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations and is expressed as equivalent calcium carbonate ( $\text{CaCO}_3$ ).

Hydrologic Bench-Mark Network is a network of 53 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 the activities of man.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps, each hydrologic unit is identified by an eight-digit number.

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

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

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

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

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represent the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L, and is based on the mass of sediment per liter of water-sediment mixture.

National Geodetic Vertical Datum of 1929 (NGVD of 1929<sup>1</sup>) is a geodetic datum derived from a general adjustment of the first order level nets of both 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.

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<sup>1</sup>The phrase "NGVD of 1929" is abbreviated as "NGVD" in some computer-generated table headings in this report.

National Stream Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in natural or regional water-quality planning and management. The 284 sites in NASQAN, which are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting such that the data may be used for, (2) description of the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs, (3) detection of changes of trends with time in the pattern of occurrence of water-quality characteristics, and (4) providing a nationally consistent data base useful for water-quality assessment and hydrologic research.

The National Trends Network (NTN) is a 150-station network for sampling atmospheric deposition in the United States. The purpose of the network is to determine the variability, both in location and in time, of the composition of atmospheric deposition, which includes snow, rain, dust particles, aerosols, and gases. The core from which the NTN was built was the already-existing deposition-monitoring network of the National Atmospheric Deposition Program (NADP).

The 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, diverse, and geographically distributed part of the Nation's ground- and surface-water resources, and to identify, describe, and explain the major natural and human factors that affect these observed conditions and trends.

Assessment activities have begun in about two-thirds of the study units and ultimately will be conducted in 60 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.

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 unit area habitat, usually square meter ( $m^2$ ), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

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.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Parameter Code is a 5-digit number used in the U.S. Geological Survey computerized data system, WATSTORE, to uniquely identify a specific constituent. The codes used in WATSTORE are the same as those used in the U.S. Environmental Protection Agency data system, STORET. The Environmental Protection Agency assigns and approves all requests for new codes.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimeters (mm), a particle determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) 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 recommendations 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. . . . .   | .004 - .062     | Sedimentation.          |
| Sand. . . . .   | .062 - 2.0      | Sedimentation or 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 material 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 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, mass, or volume.

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

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

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.

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 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.

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.

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 by the plants (carbon method).

Milligrams of carbon per area or volume per unit time [ $\text{mg C}/(\text{m}^2 \cdot \text{time})$ ] for periphyton and macrophytes and [ $\text{mg C}/(\text{m}^3 \cdot \text{time})$ ] for phytoplankton are the units for expressing primary productivity. They define 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.

Milligrams of oxygen per area or volume per unit time [ $\text{mg O}_2/(\text{m}^2 \cdot \text{time})$ ] for periphyton and macrophytes and [ $\text{mg O}_2/\text{m}^3 \cdot \text{time}$ ] for phytoplankton are the units for expressing primary productivity. They define 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.

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

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.

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.

Return period is the average time interval between occurrences of a hydrological event of a given or greater magnitude, usually expressed in years. May also be called recurrence interval.

Runoff in inches (IN, in) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sea level in this report refers to the National Geodetic Vertical Datum of 1929 (NGVD)--a geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water, it 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 the bed and very close to it. In this report, bed load is considered to consist of particles in transit within 0.25 ft of the streambed.

Bed-load discharge (tons per day) is the quantity of bed load measured by dry weight that moves past a section as bed load in a given time.

Suspended sediment is the sediment that at any given time 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).

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

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or volume, that passes a 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 general term that refers to material in suspension. It is not synonymous with either discharge or concentration.

Total-sediment discharge (tons/day) is the rate at which dry mass of sediment passes a section of a stream or is the quantity of sediment, as measured by dry mass or volume, that passes a section during a given time.

Total-sediment load or total load is a term which refers to the total sediment (bed load plus suspended-sediment load) that is in transport. It is not synonymous with total-sediment discharge.

7-day 10-year low flow (7Q10) is the discharge at the 10-year recurrence interval taken from a frequency curve of annual values of the lowest mean discharge for 7 consecutive days (the 7-day low flow).

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 about 65 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream and it may even vary in the same source with changes in the composition of the water.

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

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 plexiglass strips for periphyton.

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

Surface area of a lake is that area outlined on the latest U.S.G.S. topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

Surficial bed material is that part (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 water-suspended sediment sample that is retained on a 0.45 um 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 water-suspended sediment sample that is retained on a 0.45 um membrane filter. 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 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.

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.....   | Hexagenia         |
| Species..... | Hexagenia limbata |

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table headings and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

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

Tons per day (T/DAY) is the quantity of substance in solution or suspension that passes a stream section during a 24-hour day.

Total is the total amount of a given constituent in a representative water-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 that the sample consists of a water-suspended sediment mixture and that the analytical method determines all of the constituent in the sample.)

Total discharge is the total quantity of any individual constituent, as measured by dry mass or volume, that passes through a stream cross-section per unit of time. 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.

Total, recoverable, is the amount of a given constituent that is in solution after a representative water-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 of water is the reduction of transparency due to the presence of suspended particulate matter. The unit of measure is the nephelometric turbidity unit (NTU) and is a measure of light scatter of a beam of light passed through a sample of water.

Water year in 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, 1985, is called the "1985 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.

WRD is used as an abbreviation for "Water-Resources Data" in the REVISED RECORDS paragraph to refer to State annual basic-data reports published before 1976.

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

## PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

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 sent by 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 "U.S. Geological Survey Techniques of Water-Resources Investigations."

- 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.
- 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.
- 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.
- 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.
- 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.
- 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.



## PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS--Continued

- 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.
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- 3-A21. *Stream-gaging cableways*, by C. Russell Wagner: USGS--TWRI Book 3, Chapter A21. 1995. 56 pages.
- 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.
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- 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.
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- 3-C2. *Field methods for measurement of fluvial sediment*, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.
- 3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.
- 4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
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- 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.

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- 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.
- 5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.
- 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. 1995. 125 pages.
- 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.
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- 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.
- 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.
- 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.

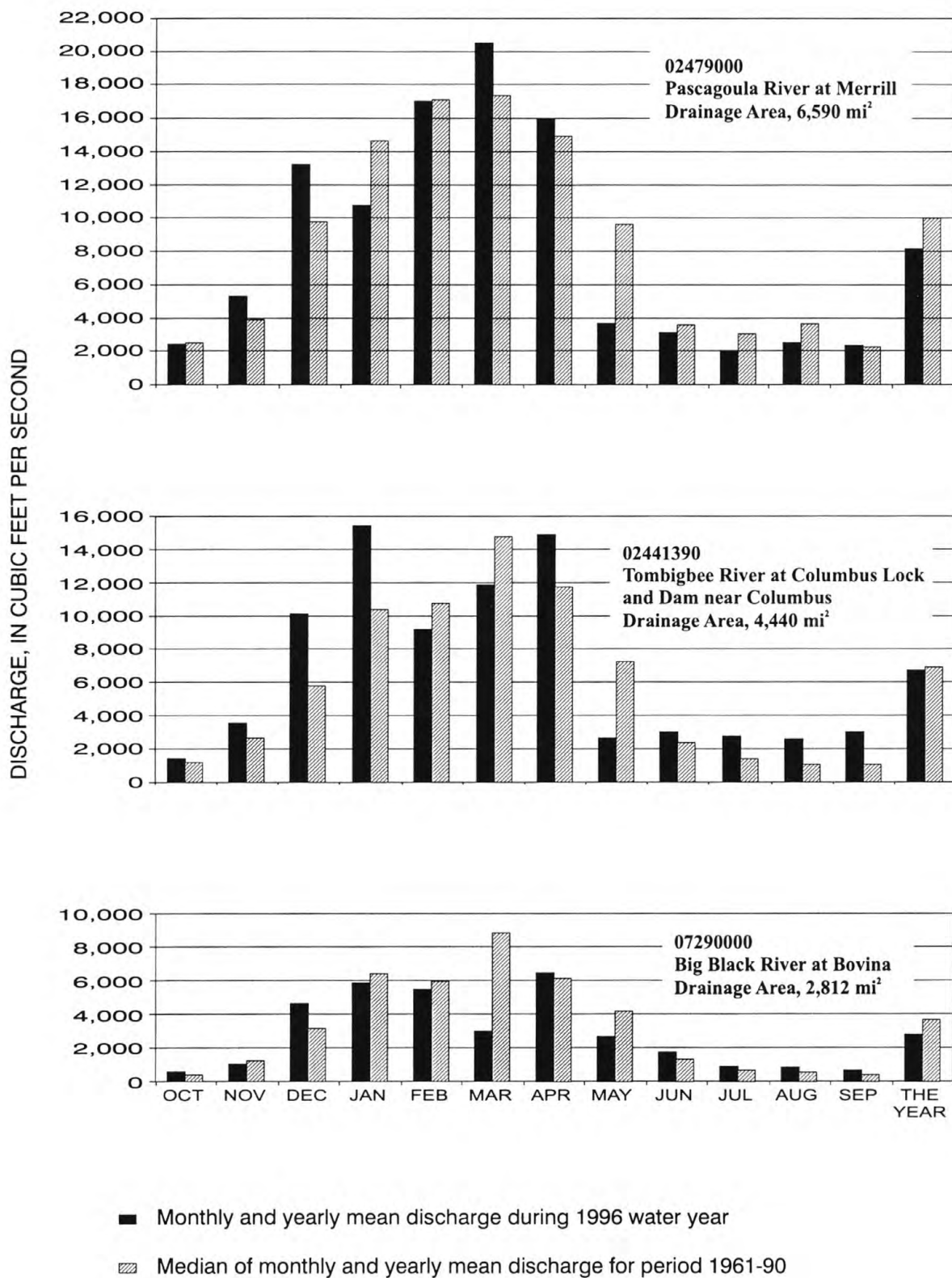


Figure 3.--Relation of discharge during 1996 water year with median discharge for period 1961-90 for three representative gaging stations.

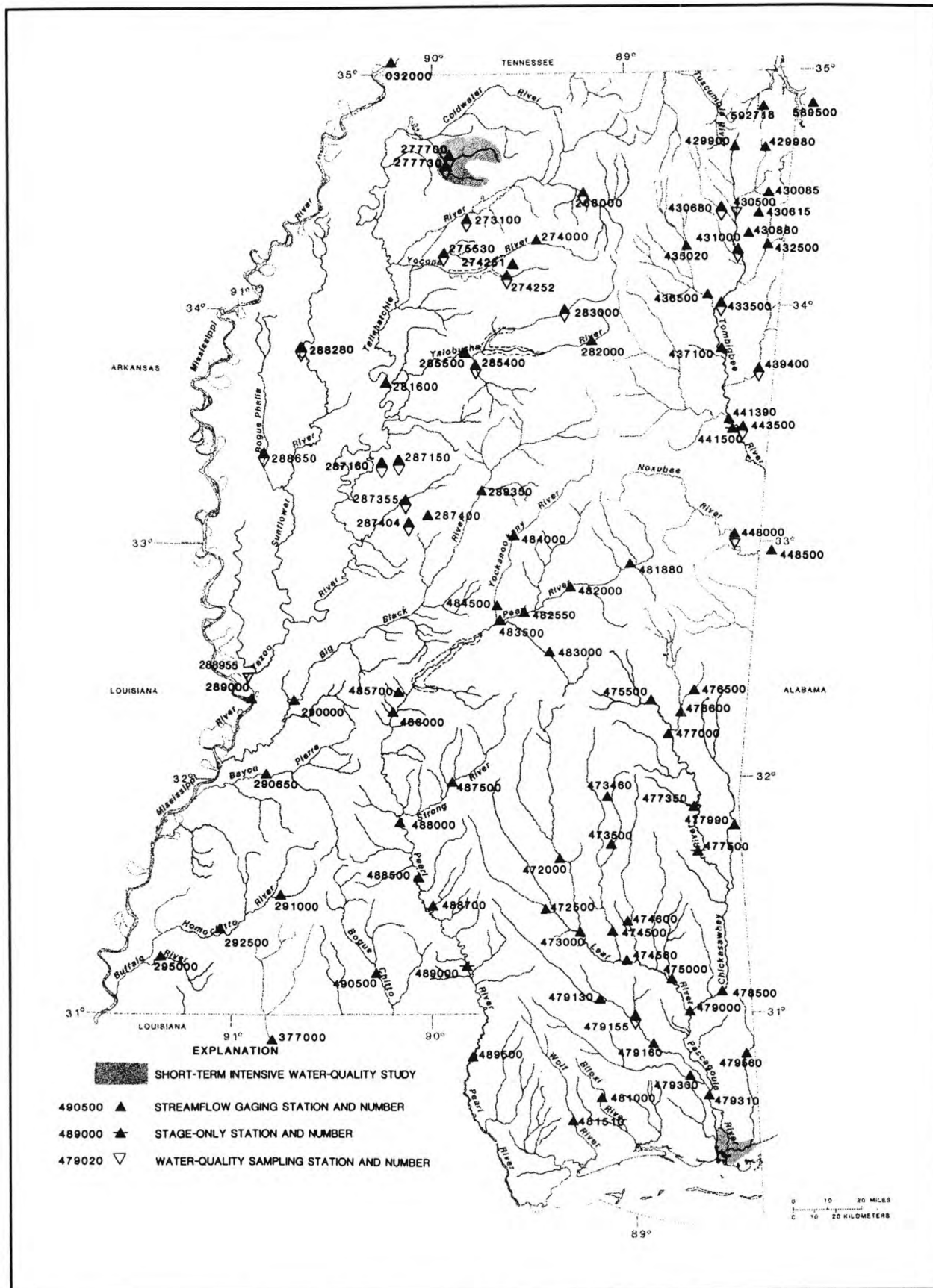


Figure 4.--Location of hydrologic-data stations.



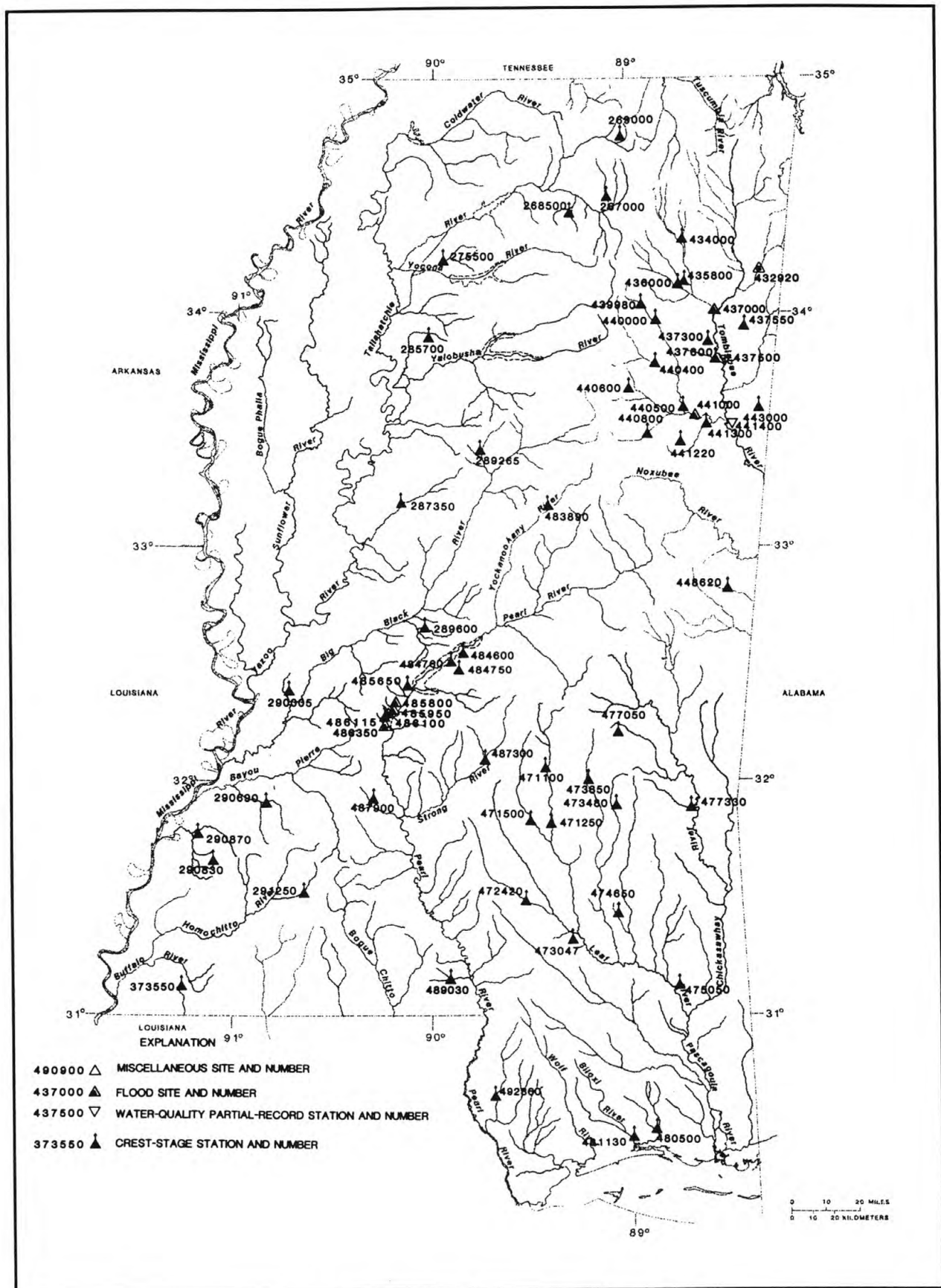


Figure 5.--Location of partial-record stations.

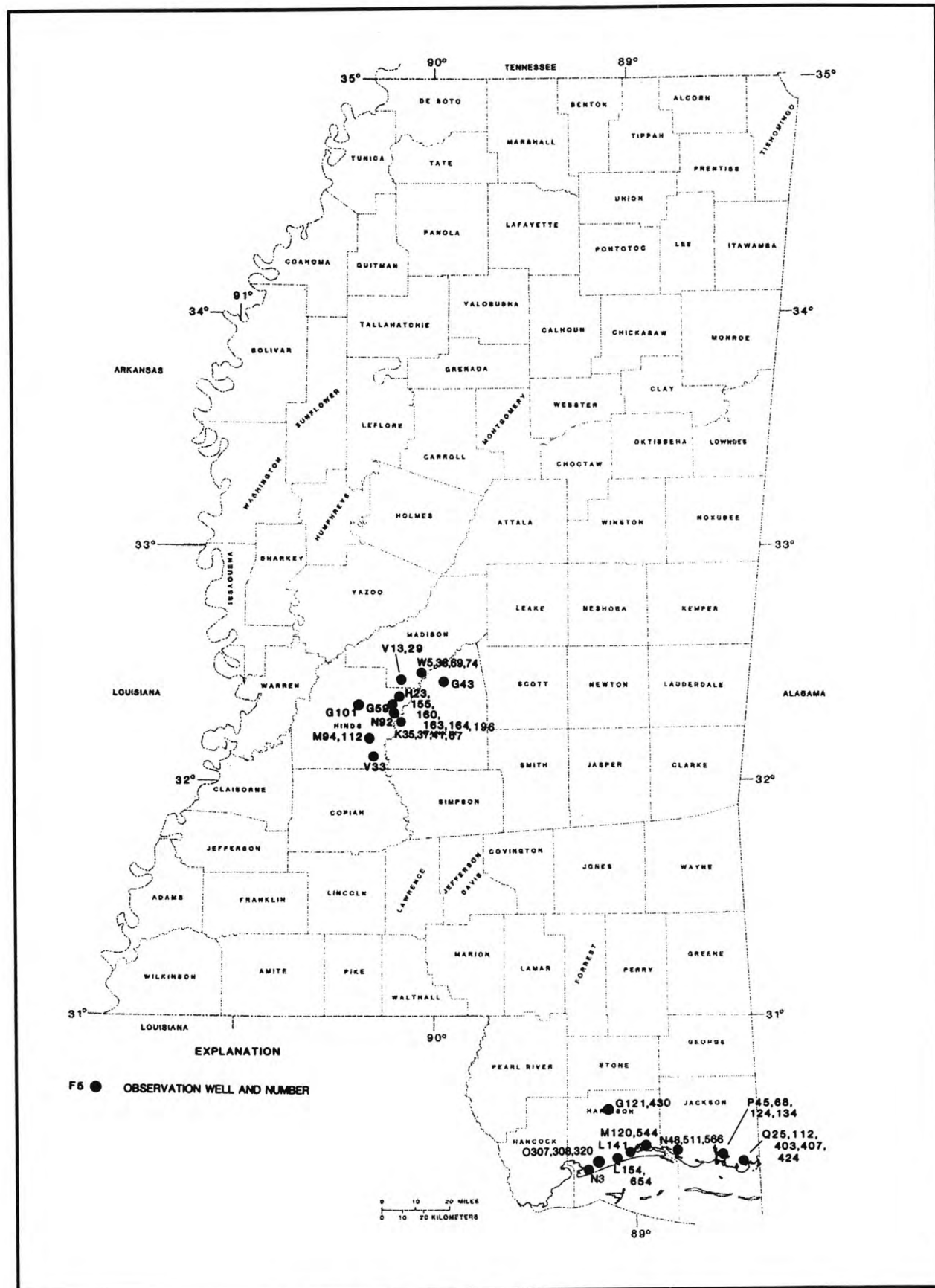


Figure 6.--Location of observation wells.

LOCATION.--Lat 34°37'07", long 88°26'42", SW1/4 NE1/4 sec.27, T.5 S., R.8 E., Chickasaw Meridian, Prentiss County, Hydrologic Unit 03160101, on left bank, near downstream side of bridge on county highway, 0.4 mi downstream from State Highway 30, 2.0 mi upstream from Martin Creek, 7.3 mi east of Booneville, and 13.7 mi upstream from mouth.

DRAINAGE AREA.--27.1 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 326.56 ft above sea level (levels by Tennessee Valley Authority). Prior to June 1973, crest-stage gage at site 0.4 mi upstream at datum 76.36 ft lower.

REMARKS.--Estimated daily discharges: Dec. 18 - Mar. 1, Mar. 5 - Ju. 11. Records fair except for estimated daily discharges, which are poor.

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) |
|---------|------|-----------------------------------|---------------------|---------------------------------------|------|-----------------------------------|---------------------|
| Dec. 17 | 1630 | *428a                             | *11.15a             | No peaks greater than base discharge. |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN  | FEB  | MAR  | APR  | MAY  | JUN    | JUL  | AUG   | SEP   |
|-------|-------|-------|-------|------|------|------|------|------|--------|------|-------|-------|
| 1     | .75   | 2.6   | 6.4   | e50  | e40  | e35  | e18  | e20  | e20    | e1.7 | 5.5   | .81   |
| 2     | .73   | 15    | 6.6   | e85  | e100 | 32   | e17  | e30  | e30    | e1.6 | 2.6   | 4.8   |
| 3     | 2.1   | 8.3   | 6.7   | e30  | e55  | 29   | e16  | e20  | e20    | e1.6 | 2.0   | 2.4   |
| 4     | 2.9   | 3.7   | 9.8   | e20  | e35  | 34   | e15  | e18  | e18    | e1.5 | 1.8   | 1.3   |
| 5     | 1.4   | 2.8   | 8.5   | e15  | e25  | e46  | e15  | e16  | e16    | e1.4 | 2.0   | 1.1   |
| 6     | 1.2   | 4.1   | 7.3   | e90  | e20  | e53  | e30  | e17  | e15    | e1.4 | 2.1   | 1.0   |
| 7     | 1.0   | 46    | 6.8   | e50  | e75  | e49  | e110 | e16  | e100   | e1.3 | 2.2   | .92   |
| 8     | .97   | 15    | 13    | e25  | e140 | e40  | e60  | e15  | e600   | e3.0 | 2.5   | .86   |
| 9     | .96   | 6.6   | 30    | e20  | e80  | e35  | e40  | e15  | e200   | e10  | 6.8   | .81   |
| 10    | .95   | 5.1   | 12    | e15  | e50  | e30  | e30  | e25  | e55    | e5.0 | 2.3   | .76   |
| 11    | .97   | 46    | 10    | e40  | e25  | e27  | e28  | e50  | e90    | e2.0 | 1.6   | .77   |
| 12    | 1.0   | 22    | 8.2   | e100 | e20  | e23  | e25  | e35  | e150   | 1.2  | 4.0   | .75   |
| 13    | .92   | 15    | 8.2   | e60  | e18  | e20  | e25  | e60  | e60    | 1.3  | 2.5   | .70   |
| 14    | .95   | 13    | 7.5   | e50  | e30  | e17  | e50  | e22  | e25    | 1.5  | 1.5   | .63   |
| 15    | 1.1   | 11    | 8.7   | e45  | e20  | e15  | e35  | e20  | e15    | 1.5  | 1.3   | .64   |
| 16    | 1.1   | 10    | 49    | e40  | e16  | e14  | e25  | e17  | e13    | 1.6  | 1.2   | 2.4   |
| 17    | 1.0   | 9.0   | 167   | e35  | e15  | e14  | e20  | e16  | e11    | 1.7  | 1.1   | 1.8   |
| 18    | 1.0   | 8.6   | e160  | e47  | e15  | e150 | e17  | e15  | e9.0   | 1.9  | 1.2   | 1.3   |
| 19    | 1.3   | 7.8   | e60   | e85  | e20  | e100 | e16  | e14  | e7.0   | 1.8  | 1.0   | 1.1   |
| 20    | 1.6   | 7.2   | e40   | e50  | e45  | e40  | e15  | e13  | e5.0   | 1.7  | .97   | .93   |
| 21    | 1.6   | 7.4   | e25   | e30  | e20  | e30  | e50  | e13  | e4.0   | 1.5  | .88   | 13    |
| 22    | 1.8   | 7.4   | e20   | e25  | e17  | e25  | e150 | e12  | e3.5   | 1.6  | .85   | 2.4   |
| 23    | 1.7   | 13    | e17   | e100 | e16  | e20  | e800 | e12  | e3.0   | 4.3  | .83   | 1.3   |
| 24    | 1.9   | 14    | e14   | e60  | e15  | e18  | e200 | e11  | e2.8   | 3.1  | .80   | 1.1   |
| 25    | 1.5   | 9.8   | e13   | e50  | e50  | e200 | e100 | e11  | e2.5   | 2.4  | .80   | .99   |
| 26    | 1.9   | 8.5   | e12   | e40  | e25  | e167 | e70  | e12  | e2.3   | 2.3  | 1.3   | 1.1   |
| 27    | 12    | 8.4   | e11   | e35  | e18  | e70  | e50  | e10  | e2.1   | 2.1  | 1.2   | 7.9   |
| 28    | 9.8   | 7.8   | e11   | e30  | e20  | e50  | e40  | e150 | e1.9   | 2.3  | 1.4   | 6.3   |
| 29    | 3.1   | 6.9   | e10   | e25  | e55  | e30  | e35  | e50  | e1.8   | 2.6  | 1.1   | 2.3   |
| 30    | 2.4   | 6.6   | e10   | e20  | ---  | e25  | e30  | e20  | e1.7   | 5.8  | 1.3   | 1.6   |
| 31    | 2.4   | ---   | e25   | e18  | ---  | e20  | ---  | e15  | ---    | 8.0  | 1.1   | ---   |
| TOTAL | 64.00 | 348.6 | 793.7 | 1385 | 1080 | 1494 | 2132 | 775  | 1484.6 | 80.7 | 57.73 | 63.77 |
| MEAN  | 2.06  | 11.6  | 25.6  | 44.7 | 37.2 | 48.2 | 71.1 | 25.0 | 49.5   | 2.60 | 1.86  | 2.13  |
| MAX   | 12    | 46    | 167   | 100  | 140  | 200  | 800  | 150  | 600    | 10   | 6.8   | 13    |
| MIN   | .73   | 2.6   | 6.4   | 15   | 15   | 14   | 15   | 11   | 1.7    | 1.2  | .80   | .63   |
| CFSM  | .08   | .43   | .94   | 1.65 | 1.37 | 1.78 | 2.62 | .92  | 1.83   | .10  | .07   | .08   |
| IN.   | .09   | .48   | 1.09  | 1.90 | 1.48 | 2.05 | 2.93 | 1.06 | 2.04   | .11  | .08   | .09   |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1996, BY WATER YEAR (WY)

|      | MEAN | 9.44 | 38.8 | 70.4 | 81.7 | 81.8 | 92.1 | 81.6 | 71.1 | 32.2 | 11.8 | 7.06 | 7.73 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 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 | 1992 | 1979 |      |      |
| MIN  | .59  | 1.00 | 4.57 | 7.99 | 25.5 | 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 1995 CALENDAR YEAR | FOR 1996 WATER YEAR | WATER YEARS 1973 - 1996 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 11536.37               | 9759.10             |                         |
| ANNUAL MEAN              | 31.6                   | 26.7                | 48.7                    |
| HIGHEST ANNUAL MEAN      |                        |                     | 94.6                    |
| LOWEST ANNUAL MEAN       |                        |                     | 15.0                    |
| HIGHEST DAILY MEAN       | 1110                   | 800                 | 2580                    |
| LOWEST DAILY MEAN        | .73                    | .63                 | .11                     |
| ANNUAL SEVEN-DAY MINIMUM | .77                    | .72                 | .12                     |
| INSTANTANEOUS PEAK FLOW  |                        | 428a                | 3900                    |
| INSTANTANEOUS PEAK STAGE |                        | 11.15a              | 99.97                   |
| ANNUAL RUNOFF (CFSM)     | 1.17                   | .98                 | 1.80                    |
| ANNUAL RUNOFF (INCHES)   | 15.84                  | 13.40               | 24.44                   |
| 10 PERCENT EXCEEDS       | 53                     | 54                  | 94                      |
| 50 PERCENT EXCEEDS       | 14                     | 13                  | 20                      |
| 90 PERCENT EXCEEDS       | 1.3                    | 1.1                 | 1.0                     |

e Estimated

a Maximum recorded. May have been higher during periods of estimated record.

## 02429980 POLLARD MILL BRANCH AT PADEN, MS

LOCATION.--Lat 34°39'10", long 88°15'00", in 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: Mar. 2 - Aug. 25. Records fair except estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1     | 4.7   | 5.6   | 4.3   | 6.9   | 4.8   | 4.4   | e4.9  | e5.5  | e3.8  | e3.6  | e5.0  | 3.9   |
| 2     | 4.7   | 8.6   | 4.3   | 11    | 4.9   | e4.2  | e4.6  | e5.3  | e5.2  | e3.6  | e3.8  | 4.7   |
| 3     | 4.9   | 4.4   | 4.3   | 6.7   | 4.7   | e4.0  | e4.6  | e5.1  | e4.5  | e3.5  | e3.6  | 6.9   |
| 4     | 5.1   | 4.3   | 4.3   | 6.7   | 4.5   | e3.9  | e4.5  | e5.0  | e4.0  | e3.4  | e3.4  | 4.2   |
| 5     | 5.1   | 4.3   | 4.3   | 6.7   | 4.3   | e7.2  | e4.3  | e5.3  | e3.9  | e3.4  | e3.3  | 4.1   |
| 6     | 5.1   | 6.0   | 4.3   | 10    | 4.1   | e12   | e4.3  | e4.8  | e3.9  | e3.3  | e5.9  | 3.9   |
| 7     | 5.1   | 9.5   | 4.3   | 6.9   | 4.9   | e11   | e4.2  | e4.7  | e3.9  | e3.3  | e5.4  | 3.9   |
| 8     | 5.1   | 4.7   | 6.4   | 6.7   | 7.8   | e7.6  | e4.1  | e4.8  | e6.6  | e6.3  | e6.8  | 3.8   |
| 9     | 5.1   | 4.7   | 4.4   | 6.7   | 7.0   | e6.7  | e4.1  | e4.5  | e4.8  | e4.1  | e6.8  | 3.8   |
| 10    | 4.9   | 4.7   | 4.3   | 6.6   | 5.6   | e6.3  | e4.0  | e4.3  | e4.1  | e3.8  | e3.8  | 3.6   |
| 11    | 4.7   | 8.1   | 4.3   | 10    | 4.6   | e6.2  | e3.9  | e5.2  | e5.1  | e3.7  | e3.5  | 3.3   |
| 12    | 4.7   | 4.7   | 4.3   | 7.3   | 4.0   | e6.1  | e3.8  | e4.9  | e4.6  | e3.6  | e17   | 3.3   |
| 13    | 4.7   | 4.7   | 4.3   | 6.7   | 3.9   | e6.0  | e4.1  | e4.4  | e4.0  | e3.5  | e6.7  | 3.2   |
| 14    | 4.7   | 4.5   | 4.3   | 6.7   | 3.9   | e5.7  | e3.8  | e3.8  | e4.0  | e3.4  | e4.7  | 3.2   |
| 15    | 4.7   | 4.3   | 5.4   | 6.5   | 3.9   | e5.7  | e4.4  | e3.8  | e4.0  | e4.5  | e4.4  | 3.3   |
| 16    | 4.7   | 4.3   | 5.5   | 6.3   | 3.9   | e6.0  | e3.6  | e3.7  | e4.0  | e3.4  | e3.8  | 5.9   |
| 17    | 4.7   | 4.3   | 8.3   | 6.3   | 3.9   | e5.6  | e3.4  | e3.7  | e4.0  | e3.1  | e3.7  | 4.3   |
| 18    | 4.8   | 4.3   | 12    | 8.3   | 3.9   | e6.8  | e3.5  | e3.7  | e4.0  | e3.1  | e3.7  | 3.7   |
| 19    | 5.1   | 4.3   | 9.5   | 6.8   | 4.0   | e11   | e3.6  | e3.7  | e4.0  | e3.0  | e3.6  | 3.5   |
| 20    | 5.1   | 4.3   | 6.8   | 6.5   | 3.9   | e7.5  | e8.0  | e3.7  | e4.0  | e3.0  | e3.6  | 3.5   |
| 21    | 5.1   | 4.3   | 6.7   | 6.3   | 3.9   | e6.6  | e14   | e3.7  | e4.0  | e3.0  | e3.5  | 6.8   |
| 22    | 5.1   | 4.3   | 6.7   | 6.3   | 3.9   | e6.3  | e8.8  | e3.7  | e3.9  | e3.0  | e3.5  | 4.1   |
| 23    | 5.1   | 4.8   | 6.7   | 6.7   | 3.9   | e5.9  | e16   | e3.6  | e3.8  | e3.8  | e3.5  | 3.9   |
| 24    | 4.9   | 4.3   | 6.7   | 9.1   | 3.9   | e5.8  | e9.1  | e3.6  | e3.8  | e6.9  | e3.4  | 3.4   |
| 25    | 5.1   | 4.3   | 6.7   | 4.7   | 3.9   | e13   | e6.9  | e3.6  | e4.1  | e7.0  | e3.4  | 3.3   |
| 26    | 5.1   | 4.3   | 6.7   | 8.4   | 3.9   | e7.5  | e6.9  | e3.6  | e4.0  | e6.9  | e3.4  | 3.4   |
| 27    | 9.3   | 4.3   | 6.5   | 5.2   | 3.9   | e6.0  | e6.0  | e4.0  | e3.9  | e3.7  | 3.7   | 6.2   |
| 28    | 5.7   | 4.3   | 6.3   | 4.7   | 5.4   | e6.3  | e5.9  | e10   | e3.8  | e4.0  | 4.1   | 4.7   |
| 29    | 5.5   | 4.3   | 6.3   | 4.7   | 4.4   | e5.6  | e6.2  | e5.0  | e3.7  | e5.1  | 3.7   | 3.8   |
| 30    | 5.5   | 4.3   | 6.3   | 4.9   | ---   | e5.2  | e6.1  | e4.2  | e3.7  | e5.4  | 3.7   | 3.5   |
| 31    | 5.5   | ---   | 9.1   | 4.9   | ---   | e5.5  | ---   | e4.2  | ---   | e7.3  | 4.1   | ---   |
| TOTAL | 159.6 | 148.1 | 184.6 | 212.2 | 129.6 | 207.6 | 171.6 | 139.1 | 125.1 | 128.7 | 142.5 | 123.1 |
| MEAN  | 5.15  | 4.94  | 5.95  | 6.85  | 4.47  | 6.70  | 5.72  | 4.49  | 4.17  | 4.15  | 4.60  | 4.10  |
| MAX   | 9.3   | 9.5   | 12    | 11    | 7.8   | 13    | 16    | 10    | 6.6   | 7.3   | 17    | 6.9   |
| MIN   | 4.7   | 4.3   | 4.3   | 4.7   | 3.9   | 3.9   | 3.4   | 3.6   | 3.7   | 3.0   | 3.3   | 3.2   |
| CFSM  | 2.56  | 2.46  | 2.96  | 3.41  | 2.22  | 3.33  | 2.85  | 2.23  | 2.07  | 2.07  | 2.29  | 2.04  |
| IN.   | 2.95  | 2.74  | 3.42  | 3.93  | 2.40  | 3.84  | 3.18  | 2.57  | 2.32  | 2.38  | 2.64  | 2.28  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1996, BY WATER YEAR (WY)

|      | 4.50 | 6.04 | 7.29 | 7.31 | 7.47 | 9.03 | 7.62 | 7.35 | 4.80 | 4.31 | 4.05 | 4.52 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 4.50 | 6.04 | 7.29 | 7.31 | 7.47 | 9.03 | 7.62 | 7.35 | 4.80 | 4.31 | 4.05 | 4.52 |
| MAX  | 7.30 | 14.0 | 17.7 | 25.2 | 16.0 | 26.4 | 15.8 | 27.7 | 8.02 | 6.73 | 6.31 | 15.4 |
| (WY) | 1978 | 1978 | 1983 | 1974 | 1991 | 1973 | 1983 | 1991 | 1973 | 1994 | 1979 | 1979 |
| MIN  | 3.10 | 3.44 | 3.35 | 3.49 | 4.31 | 4.47 | 3.74 | 2.65 | 2.30 | 2.38 | 2.16 | 2.47 |
| (WY) | 1983 | 1991 | 1994 | 1981 | 1978 | 1986 | 1986 | 1988 | 1988 | 1987 | 1988 | 1987 |

## SUMMARY STATISTICS

## FOR 1995 CALENDAR YEAR

## FOR 1996 WATER YEAR

## WATER YEARS 1973 - 1996

|                          |        |        |       |
|--------------------------|--------|--------|-------|
| ANNUAL TOTAL             | 2083.5 | 1871.8 |       |
| ANNUAL MEAN              | 5.71   | 5.11   | 6.19  |
| HIGHEST ANNUAL MEAN      |        |        | 9.88  |
| LOWEST ANNUAL MEAN       |        |        | 3.79  |
| HIGHEST DAILY MEAN       | 76     | Mar 8  | 328   |
| LOWEST DAILY MEAN        | 3.5    | Jan 5  | 1.7   |
| ANNUAL SEVEN-DAY MINIMUM | 3.5    | Jun 22 | 3.1   |
| INSTANTANEOUS PEAK FLOW  |        |        | 39a   |
| INSTANTANEOUS PEAK STAGE |        |        | 3.04a |
| ANNUAL RUNOFF (CFSM)     | 2.84   |        | 2.54  |
| ANNUAL RUNOFF (INCHES)   | 38.56  |        | 34.64 |
| 10 PERCENT EXCEEDS       | 8.1    |        | 6.9   |
| 50 PERCENT EXCEEDS       | 4.7    |        | 4.5   |
| 90 PERCENT EXCEEDS       | 3.9    |        | 3.6   |

e Estimated

a May have been higher during period of bad gage-height record.



## MOBILE RIVER BASIN

02430085 RED BUD CREEK NEAR MOORES MILL, MS

LOCATION.--34°28'00", long 88°17'00", 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.--No estimated daily discharges. Records fair except for Oct. 1-28, which are poor due to beaver activity.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 550 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) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Dec. 18 | 2015 | 642                               | 10.76               | Aug. 12 | 0445 | *843a                             | *11.20a             |
| Apr. 23 | 0530 | 685                               | 10.86               |         |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT   | NOV  | DEC  | JAN  | FEB  | MAR  | APR    | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|------|------|------|------|------|--------|-------|-------|-------|-------|-------|
| 1     | 11    | 43   | 16   | 72   | 42   | 31   | 19     | 27    | 9.7   | 6.7   | 19    | 8.1   |
| 2     | 10    | 79   | 15   | 168  | 55   | 27   | 16     | 23    | 18    | 6.4   | 10    | 11    |
| 3     | 17    | 90   | 14   | 70   | 35   | 23   | 15     | 21    | 13    | 6.1   | 8.2   | 10    |
| 4     | 12    | 45   | 18   | 48   | 30   | 22   | 14     | 19    | 9.9   | 5.8   | 6.6   | 8.5   |
| 5     | 20    | 35   | 16   | 40   | 29   | 46   | 12     | 21    | 9.0   | 5.6   | 5.8   | 8.1   |
| 6     | 4.8   | 59   | 14   | 197  | 27   | 147  | 12     | 17    | 8.9   | 5.3   | 21    | 7.3   |
| 7     | 3.5   | 113  | 13   | 102  | 51   | 151  | 11     | 16    | 8.7   | 5.1   | 18    | 6.8   |
| 8     | 4.8   | 59   | 46   | 60   | 88   | 71   | 10     | 16    | 29    | 23    | 36    | 6.5   |
| 9     | 5.2   | 37   | 66   | 48   | 83   | 52   | 8.8    | 14    | 15    | 9.3   | 37    | 6.9   |
| 10    | 5.2   | 31   | 32   | 39   | 56   | 44   | 8.1    | 12    | 11    | 6.2   | 11    | 19    |
| 11    | 5.7   | 116  | 27   | 102  | 43   | 40   | 7.8    | 18    | 17    | 4.9   | 8.2   | 7.5   |
| 12    | 6.7   | 55   | 24   | 85   | 34   | 36   | 7.7    | 16    | 14    | 4.4   | 286   | 6.7   |
| 13    | 7.0   | 40   | 21   | 56   | 31   | 33   | 9.1    | 13    | 10    | 4.4   | 42    | 6.6   |
| 14    | 10    | 40   | 20   | 44   | 29   | 29   | 7.6    | 12    | 9.5   | 5.1   | 22    | 6.5   |
| 15    | 8.2   | 30   | 21   | 36   | 26   | 28   | 11     | 12    | 9.2   | 10    | 16    | 6.7   |
| 16    | 7.2   | 27   | 77   | 33   | 23   | 31   | 7.1    | 11    | 9.0   | 5.5   | 13    | 37    |
| 17    | 7.1   | 23   | 63   | 30   | 22   | 26   | 6.3    | 9.8   | 9.2   | 4.7   | 11    | 25    |
| 18    | 7.2   | 21   | 223  | 63   | 22   | 42   | 6.1    | 8.8   | 9.0   | 4.2   | 8.9   | 13    |
| 19    | 7.9   | 19   | 150  | 51   | 33   | 136  | 6.8    | 8.4   | 9.0   | 4.0   | 7.7   | 12    |
| 20    | 9.8   | 18   | 66   | 36   | 33   | 61   | 42     | 8.1   | 9.0   | 3.9   | 6.9   | 10    |
| 21    | 11    | 17   | 45   | 34   | 24   | 47   | 176    | 7.8   | 8.8   | 3.7   | 6.4   | 79    |
| 22    | 11    | 17   | 35   | 29   | 23   | 39   | 84     | 7.7   | 8.2   | 3.7   | 6.2   | 11    |
| 23    | 9.8   | 32   | 28   | 27   | 22   | 34   | 396    | 7.5   | 8.0   | 6.3   | 6.0   | 5.6   |
| 24    | 12    | 26   | 24   | 113  | 19   | 31   | 116    | 7.5   | 7.7   | 27    | 5.6   | 4.2   |
| 25    | 12    | 20   | 22   | 48   | 18   | 191  | 69     | 7.4   | 9.1   | 33    | 5.4   | 3.9   |
| 26    | 13    | 18   | 21   | 89   | 18   | 61   | 57     | 7.2   | 8.5   | 39    | 5.3   | 3.6   |
| 27    | 38    | 18   | 19   | 70   | 21   | 40   | 41     | 8.6   | 8.3   | 9.3   | 5.9   | 11    |
| 28    | 36    | 18   | 17   | 48   | 96   | 38   | 35     | 82    | 7.9   | 11    | 7.7   | 11    |
| 29    | 39    | 22   | 17   | 43   | 38   | 30   | 36     | 18    | 7.3   | 17    | 6.4   | 6.3   |
| 30    | 36    | 18   | 16   | 42   | ---  | 24   | 35     | 13    | 7.0   | 21    | 9.4   | 5.1   |
| 31    | 39    | ---  | 89   | 53   | ---  | 25   | ---    | 11    | ---   | 42    | 13    | ---   |
| TOTAL | 427.1 | 1186 | 1275 | 1976 | 1071 | 1636 | 1282.4 | 480.8 | 317.9 | 343.6 | 671.6 | 363.9 |
| MEAN  | 13.8  | 39.5 | 41.1 | 63.7 | 36.9 | 52.8 | 42.7   | 15.5  | 10.6  | 11.1  | 21.7  | 12.1  |
| MAX   | 39    | 116  | 223  | 197  | 96   | 191  | 396    | 82    | 29    | 42    | 286   | 79    |
| MIN   | 3.5   | 17   | 13   | 27   | 18   | 22   | 6.1    | 7.2   | 7.0   | 3.7   | 5.3   | 3.6   |
| CFSM  | .88   | 2.52 | 2.62 | 4.06 | 2.35 | 3.36 | 2.72   | .99   | .67   | .71   | 1.38  | .77   |
| IN.   | 1.01  | 2.81 | 3.02 | 4.68 | 2.54 | 3.88 | 3.04   | 1.14  | .75   | .81   | 1.59  | .86   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1996, 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 | 1996 |  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| MEAN | 11.6 | 25.9 | 43.4 | 36.8 | 45.7 | 48.0 | 38.6 | 37.1 | 17.4 | 11.4 | 8.85 | 8.38 |      |      |      |      |      |      |      |      |      |      |  |
| MAX  | 24.4 | 64.5 | 128  | 79.8 | 108  | 119  | 116  | 207  | 56.5 | 50.2 | 21.7 | 34.5 |      |      |      |      |      |      |      |      |      |      |  |
| (WY) | 1976 | 1987 | 1991 | 1979 | 1990 | 1980 | 1991 | 1991 | 1989 | 1989 | 1996 | 1979 |      |      |      |      |      |      |      |      |      |      |  |
| MIN  | 3.68 | 5.00 | 10.2 | 10.2 | 16.6 | 20.2 | 8.58 | 3.85 | 3.25 | 3.14 | 2.54 | 2.08 |      |      |      |      |      |      |      |      |      |      |  |
| (WY) | 1979 | 1982 | 1982 | 1986 | 1992 | 1982 | 1986 | 1992 | 1988 | 1977 | 1981 | 1987 |      |      |      |      |      |      |      |      |      |      |  |

## SUMMARY STATISTICS

## FOR 1995 CALENDAR YEAR

## FOR 1996 WATER YEAR

## WATER YEARS 1975 - 1996

|                          |         |         |        |
|--------------------------|---------|---------|--------|
| ANNUAL TOTAL             | 11342.3 | 11031.3 |        |
| ANNUAL MEAN              | 31.1    | 30.1    | 27.6   |
| HIGHEST ANNUAL MEAN      |         |         | 58.0   |
| LOWEST ANNUAL MEAN       |         |         | 12.6   |
| HIGHEST DAILY MEAN       | 672     | Mar 7   | 1200   |
| LOWEST DAILY MEAN        | 1.8     | Jul 26  | 1.4a   |
| ANNUAL SEVEN-DAY MINIMUM | 2.1     | Jul 21  | 1.6    |
| INSTANTANEOUS PEAK FLOW  |         |         | 843a   |
| INSTANTANEOUS PEAK STAGE |         |         | 11.20a |
| ANNUAL RUNOFF (CFSM)     | 1.98    |         | 1.92   |
| ANNUAL RUNOFF (INCHES)   | 26.87   |         | 26.14  |
| 10 PERCENT EXCEEDS       | 65      |         | 64     |
| 50 PERCENT EXCEEDS       | 18      |         | 18     |
| 90 PERCENT EXCEEDS       | 2.9     |         | 6.3    |

a May have been lower during periods of estimated discharge.

## 02430500 TOMBIGBEE RIVER NEAR MARIETTA, MS

LOCATION.--Lat 34°25'35", long 88°25'16", in 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: Nov. 8, 12, Dec. 23-27, 31, Jan. 14-16, 18, 20-24, 30-31, Feb. 12-13, May 13-27, May 31 - Jun. 2, 4-8, Jun. 14 - Jul. 29, Aug. 2, Sept. 21, 27. Records fair 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, not determined, minimum daily discharge, 59 ft<sup>3</sup>/s, Jul. 22.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR | APR | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|------|------|-----|-----|------|------|------|------|------|
| 1     | 119  | 105  | 126  | ---  | 200  | 376 | 454 | 384  | e105 | e78  | ---  | 117  |
| 2     | 120  | 147  | 131  | ---  | 203  | 325 | 364 | 317  | e170 | e80  | e150 | 119  |
| 3     | 116  | 240  | 131  | ---  | 266  | 283 | 339 | 273  | 285  | e80  | 89   | 143  |
| 4     | 107  | 158  | 133  | ---  | 280  | 255 | 318 | 245  | e150 | e78  | 83   | 109  |
| 5     | 110  | 123  | 135  | ---  | 254  | 298 | 292 | 217  | e105 | e76  | 82   | 100  |
| 6     | 105  | 123  | 133  | ---  | 210  | --- | 289 | 191  | e86  | e76  | 83   | 93   |
| 7     | 104  | 321  | 128  | ---  | 192  | --- | 278 | 173  | e150 | e90  | 97   | 89   |
| 8     | 101  | e340 | 136  | ---  | 455  | --- | 263 | 170  | e450 | e150 | 90   | 88   |
| 9     | 101  | 190  | 390  | ---  | ---  | --- | 240 | 174  | ---  | e200 | 124  | 88   |
| 10    | 102  | 151  | 228  | ---  | ---  | --- | 221 | 168  | ---  | e90  | 101  | 91   |
| 11    | 101  | 408  | 166  | ---  | ---  | 414 | 213 | 227  | ---  | e72  | 90   | 85   |
| 12    | 135  | e350 | 156  | ---  | e430 | 374 | 220 | 341  | ---  | e66  | 478  | 87   |
| 13    | 141  | 241  | 150  | ---  | e360 | 356 | 227 | e210 | ---  | e66  | 302  | 84   |
| 14    | 107  | 187  | 149  | e450 | 348  | 343 | 226 | e170 | e470 | e73  | 129  | 85   |
| 15    | 106  | 163  | 143  | e350 | 328  | 319 | 261 | e150 | e330 | e76  | 97   | 82   |
| 16    | 108  | 152  | 468  | e305 | 295  | 481 | 249 | e135 | e220 | e74  | 89   | 88   |
| 17    | 119  | 146  | ---  | 296  | 272  | --- | 207 | e120 | e120 | e72  | 88   | 125  |
| 18    | 112  | 140  | ---  | e380 | 266  | 430 | 192 | e110 | e98  | e70  | 87   | 102  |
| 19    | 110  | 133  | ---  | ---  | 265  | --- | 206 | e105 | e90  | e66  | 87   | 95   |
| 20    | 111  | 132  | ---  | e450 | 405  | --- | --- | e97  | e86  | e63  | 83   | 88   |
| 21    | 111  | 129  | ---  | e370 | 343  | --- | --- | e94  | e82  | e60  | 83   | e180 |
| 22    | 114  | 126  | ---  | e300 | 299  | 472 | --- | e90  | e77  | e59  | 83   | 198  |
| 23    | 112  | 132  | e470 | e290 | 294  | 385 | --- | e87  | e84  | e62  | 85   | 116  |
| 24    | 117  | 162  | e320 | e500 | 286  | 340 | --- | e83  | e105 | e70  | 84   | 98   |
| 25    | 118  | 145  | e250 | ---  | 261  | --- | --- | e79  | e150 | e78  | 87   | 93   |
| 26    | 120  | 138  | e200 | ---  | 231  | --- | --- | e76  | e125 | e74  | 86   | 91   |
| 27    | 136  | 135  | e184 | ---  | 222  | --- | --- | e150 | e95  | e66  | 88   | e180 |
| 28    | 200  | 130  | ---  | ---  | ---  | --- | 423 | 267  | e82  | e64  | 100  | 165  |
| 29    | 120  | 128  | 167  | ---  | 460  | --- | 401 | 302  | e80  | e70  | 99   | 132  |
| 30    | 108  | 126  | 164  | e360 | ---  | 448 | --- | 200  | e78  | 70   | 101  | 108  |
| 31    | 106  | ---  | e200 | e230 | ---  | 443 | --- | e140 | ---  | 110  | 116  | ---  |
| TOTAL | 3597 | 5301 | ---  | ---  | ---  | --- | --- | 5545 | ---  | 2479 | ---  | 3319 |
| MEAN  | 116  | 177  | ---  | ---  | ---  | --- | --- | 179  | ---  | 80.0 | ---  | 111  |
| MAX   | 200  | 408  | ---  | ---  | ---  | --- | --- | 384  | ---  | 200  | ---  | 198  |
| MIN   | 101  | 105  | ---  | ---  | ---  | --- | --- | 76   | ---  | 59   | ---  | 82   |
| CFSM  | .38  | .57  | ---  | ---  | ---  | --- | --- | .58  | ---  | .26  | ---  | .36  |
| IN.   | .43  | .64  | ---  | ---  | ---  | --- | --- | .67  | ---  | .30  | ---  | .40  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1996, BY WATER YEAR (WY)

|      | 79.2 | 262  | 310  | 797  | 777  | 728  | 439  | 230  | 211  | 137  | 106  | 105  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 79.2 | 262  | 310  | 797  | 777  | 728  | 439  | 230  | 211  | 137  | 106  | 105  |
| MAX  | 180  | 1546 | 718  | 2569 | 2124 | 1595 | 1265 | 778  | 1754 | 628  | 351  | 677  |
| (WY) | 1994 | 1949 | 1946 | 1949 | 1950 | 1944 | 1940 | 1946 | 1939 | 1946 | 1950 | 1950 |
| MIN  | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 | .000 |
| (WY) | 1979 | 1979 | 1979 | 1979 | 1979 | 1979 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 |

## SUMMARY STATISTICS

## WATER YEARS 1938 - 1996

|                          |       |
|--------------------------|-------|
| ANNUAL MEAN              | 396   |
| HIGHEST ANNUAL MEAN      | 753   |
| LOWEST ANNUAL MEAN       | .000  |
| HIGHEST DAILY MEAN       | 15000 |
| LOWEST DAILY MEAN        | .00   |
| ANNUAL SEVEN-DAY MINIMUM | .00   |
| INSTANTANEOUS PEAK FLOW  | 30600 |
| INSTANTANEOUS PEAK STAGE | 15.24 |
| ANNUAL RUNOFF (CFSM)     | 1.29  |
| ANNUAL RUNOFF (INCHES)   | 17.47 |
| 10 PERCENT EXCEEDS       | 548   |
| 50 PERCENT EXCEEDS       | 130   |
| 90 PERCENT EXCEEDS       | .00   |

e Estimated

## MOBILE RIVER BASIN

02430500 TOMBIGBEE RIVER NEAR MARIETTA, MS--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972-73, 1989 to current year.

SUSPENDED SEDIMENT DISCHARGE, 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>PENDE<br>(MG/L)<br>(80154) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDE<br>(T/DAY)<br>(80155) |
|--------------|------|-----------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------|
| JAN<br>17... | 1140 | 299                                                                   | 39                                                   | 31                                                                       |
| FEB<br>21... | 1300 | 334                                                                   | 45                                                   | 41                                                                       |
| APR<br>02... | 1320 | 360                                                                   | 59                                                   | 57                                                                       |

## 02430615 MUD CREEK NEAR FAIRVIEW, MS

LOCATION.--Lat 34°23'32", long 88°21'17", in NW1/4 NE1/4 sec.16, T.8 S., R.9 E., Chickasaw Meridian, Itawamba County, Hydrologic Unit 03160101, 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: Nov. 7 - Dec. 5, 10-11, Dec. 25 - Jan. 16, Feb. 2-6, May 2-15, Jun. 18 - Jul. 7, Aug. 15-30, Sept. 1-5. Records good except estimated daily discharges, which are poor. 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. 23 | 0130 | *875                              | *9.68               | Aug. 12 | 0645 | 508                               | 9.09                |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT   | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|------|------|------|------|------|------|-------|-------|-------|-------|-------|
| 1     | 5.1   | 12   | e15  | e41  | 32   | 20   | 18   | 19    | 8.5   | e6.4  | 16    | e19   |
| 2     | 5.7   | 38   | e14  | e77  | e26  | 18   | 17   | e18   | 22    | e6.1  | 9.0   | e15   |
| 3     | 21    | 33   | e13  | e34  | e23  | 17   | 16   | e17   | 12    | e5.8  | 7.9   | e13   |
| 4     | 14    | 15   | e16  | e27  | e21  | 16   | 16   | e16   | 9.1   | e5.5  | 6.8   | e11   |
| 5     | 26    | 12   | e14  | e24  | e21  | 24   | 15   | e18   | 8.0   | e5.2  | 6.1   | e10   |
| 6     | 11    | 27   | 11   | e90  | e20  | 44   | 15   | e15   | 7.4   | e5.0  | 17    | 10    |
| 7     | 8.7   | e70  | 11   | e47  | 33   | 42   | 15   | e15   | 7.2   | e6.0  | 29    | 8.4   |
| 8     | 8.1   | e32  | 34   | e31  | 37   | 24   | 14   | e15   | 28    | 25    | 21    | 7.5   |
| 9     | 7.8   | e23  | 30   | e27  | 26   | 20   | 14   | e13   | 14    | 30    | 39    | 7.1   |
| 10    | 7.6   | e21  | e16  | e24  | 22   | 19   | 13   | e12   | 10    | 8.4   | 12    | 7.3   |
| 11    | 7.5   | e62  | e14  | e54  | 19   | 18   | 13   | e17   | 67    | 6.7   | 9.1   | 6.9   |
| 12    | 7.3   | e31  | 14   | e43  | 18   | 18   | 13   | e15   | 26    | 6.1   | 155   | 6.6   |
| 13    | 7.6   | e25  | 14   | e31  | 18   | 17   | 15   | e13   | 18    | 6.0   | 21    | 6.1   |
| 14    | 8.1   | e25  | 13   | e25  | 17   | 17   | 14   | e11   | 13    | 9.2   | 17    | 6.0   |
| 15    | 7.6   | e21  | 15   | e22  | 16   | 17   | 16   | e9.3  | 11    | 14    | e14   | 6.1   |
| 16    | 7.3   | e20  | 39   | e19  | 16   | 17   | 13   | 8.9   | 9.5   | 7.7   | e12   | 28    |
| 17    | 7.0   | e18  | 36   | 33   | 16   | 16   | 13   | 8.3   | 8.8   | 6.6   | e11   | 15    |
| 18    | 7.0   | e17  | 106  | 27   | 16   | 34   | 13   | 7.8   | e8.0  | 5.7   | e9.8  | 9.5   |
| 19    | 7.2   | e16  | 49   | 20   | 27   | 55   | 13   | 7.5   | e7.5  | 5.3   | e9.1  | 7.9   |
| 20    | 7.6   | e16  | 27   | 20   | 21   | 25   | 22   | 7.3   | e7.2  | 5.0   | e8.6  | 8.0   |
| 21    | 7.3   | e15  | 22   | 19   | 18   | 21   | 101  | 6.8   | e6.8  | 4.8   | e8.3  | 74    |
| 22    | 7.2   | e15  | 20   | 18   | 17   | 19   | 99   | 6.6   | e6.6  | 4.6   | e8.2  | 16    |
| 23    | 7.1   | e25  | 18   | 58   | 16   | 18   | 251  | 6.3   | e7.5  | 8.7   | e8.1  | 11    |
| 24    | 7.3   | e20  | 17   | 25   | 15   | 17   | 36   | 6.2   | e8.3  | 6.7   | e7.7  | 9.1   |
| 25    | 7.2   | e16  | e17  | 38   | 15   | 114  | 28   | 5.9   | e8.8  | 8.5   | e7.5  | 8.5   |
| 26    | 7.5   | e15  | e17  | 36   | 15   | 29   | 25   | 5.7   | e8.1  | 12    | e7.5  | 8.0   |
| 27    | 36    | e16  | e16  | 24   | 18   | 25   | 22   | 6.0   | e7.7  | 6.9   | e8.2  | 12    |
| 28    | 16    | e16  | e15  | 22   | 62   | 26   | 20   | 83    | e7.4  | 10    | e10   | 15    |
| 29    | 10    | e19  | e15  | 22   | 25   | 23   | 24   | 15    | e7.1  | 15    | e8.4  | 10    |
| 30    | 9.7   | e16  | e15  | 29   | ---  | 20   | 22   | 11    | e6.8  | 14    | e30   | 8.6   |
| 31    | 10    | ---  | e57  | 22   | ---  | 21   | ---  | 9.4   | ---   | 23    | 24    | ---   |
| TOTAL | 314.5 | 707  | 730  | 1029 | 646  | 811  | 926  | 425.0 | 377.3 | 289.9 | 558.3 | 380.6 |
| MEAN  | 10.1  | 23.6 | 23.5 | 33.2 | 22.3 | 26.2 | 30.9 | 13.7  | 12.6  | 9.35  | 18.0  | 12.7  |
| MAX   | 36    | 70   | 106  | 90   | 62   | 114  | 251  | 83    | 67    | 30    | 155   | 74    |
| MIN   | 5.1   | 12   | 11   | 18   | 15   | 16   | 13   | 5.7   | 6.6   | 4.6   | 6.1   | 6.0   |
| CFSM  | .91   | 2.12 | 2.12 | 2.99 | 2.01 | 2.36 | 2.78 | 1.24  | 1.13  | .84   | 1.62  | 1.14  |
| IN.   | 1.05  | 2.37 | 2.45 | 3.45 | 2.16 | 2.72 | 3.10 | 1.42  | 1.26  | .97   | 1.87  | 1.28  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1996, 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 | 1996 |  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| MEAN | 9.76 | 19.0 | 29.1 | 23.7 | 28.8 | 31.4 | 26.0 | 26.2 | 14.5 | 9.52 | 7.86 | 8.16 |      |      |      |      |      |      |      |      |      |      |  |
| MAX  | 21.3 | 46.3 | 95.7 | 47.1 | 78.0 | 71.3 | 82.8 | 134  | 33.1 | 19.8 | 20.9 | 18.3 |      |      |      |      |      |      |      |      |      |      |  |
| (WY) | 1976 | 1987 | 1991 | 1979 | 1991 | 1980 | 1991 | 1991 | 1989 | 1994 | 1975 | 1975 |      |      |      |      |      |      |      |      |      |      |  |
| MIN  | 4.14 | 4.51 | 8.41 | 8.41 | 12.9 | 10.2 | 5.62 | 6.04 | 2.85 | 3.29 | 2.21 | 2.78 |      |      |      |      |      |      |      |      |      |      |  |
| (WY) | 1979 | 1982 | 1982 | 1986 | 1986 | 1982 | 1986 | 1981 | 1988 | 1988 | 1981 | 1986 |      |      |      |      |      |      |      |      |      |      |  |

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1975 - 1996

|                          |        |         |       |
|--------------------------|--------|---------|-------|
| ANNUAL TOTAL             | 7538.9 | 7194.6  |       |
| ANNUAL MEAN              | 20.7   | 19.7    | 19.3  |
| HIGHEST ANNUAL MEAN      |        |         | 45.2  |
| LOWEST ANNUAL MEAN       |        |         | 9.80  |
| HIGHEST DAILY MEAN       | 707    | Mar 7   | 984   |
| LOWEST DAILY MEAN        | 4.2    | Jul 26a | 1.4   |
| ANNUAL SEVEN-DAY MINIMUM | 4.3    | Sep 3   | 1.5   |
| INSTANTANEOUS PEAK FLOW  |        |         | 1510  |
| INSTANTANEOUS PEAK STAGE |        |         | 10.49 |
| ANNUAL RUNOFF (CFSM)     | 1.86   |         | 1.74  |
| ANNUAL RUNOFF (INCHES)   | 25.27  |         | 23.65 |
| 10 PERCENT EXCEEDS       | 33     |         | 33    |
| 50 PERCENT EXCEEDS       | 14     |         | 12    |
| 90 PERCENT EXCEEDS       | 4.9    |         | 4.3   |

e Estimated

a Also occurred on Aug 3, Sept 3, 7-9.



02430680 TWENTYMILE CREEK NEAR GUNTOWN, MS

LOCATION.--Lat 34°27'11", long 88°34'37", in 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 Baldwyn, 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: Oct. 24 - Dec. 6, Jan. 15-16, Feb. 26-29, Mar. 22 - Apr. 10, Apr. 21, Apr. 27 - May 22, Jun. 27 - July. 10. Records good except for estimated discharges, which are poor. U.S. Army Corps of Engineers radio telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 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. 23 | 1215 | *13,400a                       | *26.60a          | No other peaks greater than base discharge. |      |                                |                  |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC    | JAN   | FEB  | MAR   | APR   | MAY    | JUN  | JUL   | AUG    | SEP    |
|-------|-------|-------|--------|-------|------|-------|-------|--------|------|-------|--------|--------|
| 1     | .41   | e2.1  | e10    | 179   | 173  | 141   | e130  | e115   | 12   | e16   | 719    | 23     |
| 2     | .38   | e7.0  | e11    | 107   | 211  | 114   | e110  | e100   | 243  | e14   | 35     | 114    |
| 3     | .89   | e19   | e8.9   | 112   | 209  | 94    | e86   | e85    | 65   | e13   | 18     | 51     |
| 4     | 2.8   | e7.5  | e38    | 1150  | 209  | 81    | e70   | e72    | 29   | e12   | 12     | 19     |
| 5     | 4.2   | e3.4  | e17    | 199   | 204  | 1070  | e62   | e60    | 20   | e11   | 7.9    | 13     |
| 6     | 3.2   | e6.2  | e11    | 108   | 271  | 727   | e54   | e53    | 16   | e11   | 6.7    | 9.2    |
| 7     | 1.9   | e150  | 15     | 93    | 1720 | 253   | e50   | e47    | 13   | e59   | 4.9    | 8.3    |
| 8     | 1.1   | e68   | 95     | 86    | 879  | 168   | e47   | e42    | 841  | e53   | 11     | 7.2    |
| 9     | .73   | e11   | 271    | 1420  | 360  | 134   | e48   | e37    | 563  | e25   | 23     | 6.0    |
| 10    | .74   | e7.5  | 37     | 265   | 204  | 112   | e49   | e34    | 118  | e14   | 8.2    | 4.9    |
| 11    | .75   | e289  | 27     | 147   | 151  | 164   | 49    | e48    | 165  | 6.9   | 39     | 4.0    |
| 12    | .73   | e75   | 25     | 107   | 137  | 366   | 47    | e46    | 185  | 5.0   | 192    | 2.7    |
| 13    | .73   | e22   | 22     | 86    | 123  | 739   | 51    | e40    | 48   | 4.0   | 28     | 1.9    |
| 14    | 1.1   | e18   | 21     | 79    | 106  | 155   | 56    | e33    | 34   | 5.2   | 14     | 1.4    |
| 15    | 1.0   | e12   | 754    | e78   | 95   | 1630  | 91    | e26    | 27   | 7.2   | 7.8    | 1.6    |
| 16    | .96   | e10   | 623    | e76   | 108  | 649   | 59    | e23    | 23   | 5.7   | 5.6    | 11     |
| 17    | .92   | e9.2  | 1360   | 75    | 119  | 495   | 46    | e20    | 19   | 5.4   | 4.9    | 27     |
| 18    | .85   | e8.1  | 634    | 489   | 389  | 127   | 42    | e18    | 26   | 4.0   | 4.2    | 10     |
| 19    | .80   | e7.2  | 96     | 276   | 196  | 93    | 51    | e16    | 27   | 2.8   | 2.9    | 5.8    |
| 20    | .87   | e6.7  | 70     | 122   | 150  | 79    | 1350  | e15    | 17   | 2.2   | 2.5    | 4.3    |
| 21    | 1.1   | e6.2  | 56     | 112   | 128  | 66    | e4400 | e14    | 14   | 1.9   | 2.3    | 703    |
| 22    | .72   | e5.7  | 48     | 92    | 112  | e62   | 2200  | e13    | 12   | 1.9   | 2.2    | 47     |
| 23    | .57   | e12   | 42     | 1070  | 115  | e59   | 6080  | 13     | 11   | 3.3   | 2.0    | 20     |
| 24    | e1.1  | e14   | 39     | 792   | 522  | e200  | 713   | 12     | 32   | 12    | 2.0    | 13     |
| 25    | e1.1  | e8.6  | 35     | 199   | 325  | e1400 | 313   | 11     | 57   | 28    | 1.9    | 9.7    |
| 26    | e1.4  | e7.2  | 32     | 1390  | e200 | e450  | 247   | 10     | 38   | 12    | 1.7    | 8.5    |
| 27    | e12   | e6.7  | 30     | 319   | e250 | e300  | e200  | 9.2    | e24  | 5.7   | 2.9    | 557    |
| 28    | e10   | e6.7  | 29     | 172   | e450 | e250  | e175  | 123    | e20  | 4.4   | 29     | 642    |
| 29    | e3.1  | e6.5  | 838    | 142   | e180 | e210  | e150  | 82     | e19  | 32    | 13     | 66     |
| 30    | e1.7  | e5.7  | 862    | 332   | ---  | e180  | e130  | 26     | e18  | 37    | 164    | 28     |
| 31    | e1.6  | ---   | 674    | 182   | ---  | e150  | ---   | 16     | ---  | 204   | 229    | ---    |
| TOTAL | 59.45 | 818.2 | 6830.9 | 10056 | 8296 | 10718 | 17156 | 1259.2 | 2736 | 618.6 | 1596.6 | 2419.5 |
| MEAN  | 1.92  | 27.3  | 220    | 324   | 286  | 346   | 572   | 40.6   | 91.2 | 20.0  | 51.5   | 80.6   |
| MAX   | 12    | 289   | 1360   | 1420  | 1720 | 1630  | 6080  | 123    | 841  | 204   | 719    | 703    |
| MIN   | .38   | 2.1   | 8.9    | 75    | 95   | 59    | 42    | 9.2    | 11   | 1.9   | 1.7    | 1.4    |
| CFSM  | .01   | .21   | 1.68   | 2.48  | 2.18 | 2.64  | 4.37  | .31    | .70  | .15   | .39    | .62    |
| IN.   | .02   | .23   | 1.94   | 2.86  | 2.36 | 3.04  | 4.87  | .36    | .78  | .18   | .45    | .69    |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1996, BY WATER YEAR (WY)

|      | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 27.0 | 224  | 431  | 299  | 472  | 350  | 316  | 335  | 136  | 40.1 | 43.0 | 19.9 |      |      |      |
| MAX  | 97.7 | 785  | 1157 | 898  | 1195 | 652  | 912  | 1946 | 711  | 282  | 329  | 80.6 |      |      |      |
| (WY) | 1986 | 1984 | 1992 | 1989 | 1990 | 1994 | 1991 | 1991 | 1989 | 1989 | 1992 | 1996 |      |      |      |
| MIN  | 1.02 | 7.36 | 60.7 | 19.6 | 132  | 114  | 16.8 | 11.0 | 1.09 | 1.98 | 1.77 | 1.15 |      |      |      |
| (WY) | 1988 | 1991 | 1986 | 1986 | 1986 | 1988 | 1986 | 1988 | 1988 | 1990 | 1988 | 1984 |      |      |      |

## SUMMARY STATISTICS

## FOR 1995 CALENDAR YEAR

## FOR 1996 WATER YEAR

## WATER YEARS 1982 - 1996

|                          |          |          |       |
|--------------------------|----------|----------|-------|
| ANNUAL TOTAL             | 49119.09 | 62564.45 |       |
| ANNUAL MEAN              | 135      | 171      | 225   |
| HIGHEST ANNUAL MEAN      |          |          | 435   |
| LOWEST ANNUAL MEAN       |          |          | 66.6  |
| HIGHEST DAILY MEAN       | 7980     | Mar 3    | 15500 |
| LOWEST DAILY MEAN        | .38      | Oct 2    | .00   |
| ANNUAL SEVEN-DAY MINIMUM | .76      | Sep 27   | .05   |
| INSTANTANEOUS PEAK FLOW  |          |          | 41500 |
| INSTANTANEOUS PEAK STAGE |          |          | 30.88 |
| INSTANTANEOUS LOW FLOW   |          |          | .00   |
| ANNUAL RUNOFF (CFSM)     | 1.03     |          | 1.72  |
| ANNUAL RUNOFF (INCHES)   | 13.95    |          | 23.30 |
| 10 PERCENT EXCEEDS       | 202      |          | 381   |
| 50 PERCENT EXCEEDS       | 32       |          | 42    |
| 90 PERCENT EXCEEDS       | 1.3      |          | 2.0   |

e Estimated

a May have been higher during period of missing record Apr. 21.

## MOBILE RIVER BASIN

37

02430680 TWENTYMILE CREEK NEAR GUNTOWN, MS--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1989 to current year.

SUSPENDED SEDIMENT DISCHARGE, 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>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   |      |                                                                       |                                                                         |                                                                          |
| 17... | 1330 | 75                                                                    | 64                                                                      | 13                                                                       |
| FEB   |      |                                                                       |                                                                         |                                                                          |
| 21... | 0945 | 127                                                                   | 101                                                                     | 35                                                                       |
| APR   |      |                                                                       |                                                                         |                                                                          |
| 02... | 0930 | 131                                                                   | 114                                                                     | 40                                                                       |

## 02430880 CUMMINGS CREEK NEAR FULTON, MS

LOCATION.--Lat 34°18'16", long 88°22'16", in NE1/4 sec.17, T.9 S., R.9 E., Chickasaw Meridian, Itawamba County, Hydrologic Unit 03160101, on left bank at the downstream end of 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.

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

REMARKS.--Estimated daily discharges: Oct. 1-26, 28-31, Nov. 1-6, 8-10, 12-30, Dec. 1-8, 10-15, 20-30, Jan. 4-5, 8-10, 13-23, 25, 30-31, Feb. 1, 3-6, 10-27, Mar. 1-5, 9-17, 21-23, 29-31, Apr. 1-19, 27-28, 30, May 1-22, Jun. 7, 20-30, Jul. 1-7, 10, 12-14, 16-30, Aug. 2-8, 10-11, 14-24, Sept. 23-26. Records poor. U.S. Army Corps of Engineers radio telemeter at station.

REVISION.--The maximum discharge for the 1995 water year have been revised to 834 ft<sup>3</sup>/s on Feb. 16, 1995. This figure supersedes that published in the report for 1995.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL   | AUG   | SEP  |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|------|
| 1     | e11  | e24  | e25  | 39   | e46  | e27  | e22  | e32  | 33   | e15   | 9.1   | 10   |
| 2     | e12  | e50  | e24  | 86   | 36   | e27  | e22  | e30  | 56   | e15   | e9.0  | 13   |
| 3     | e29  | e51  | e23  | 33   | e22  | e27  | e22  | e29  | 42   | e15   | e8.0  | 12   |
| 4     | e23  | e29  | e27  | e28  | e23  | e27  | e22  | e27  | 34   | e14   | e8.0  | 12   |
| 5     | e34  | e23  | e22  | e28  | e23  | e31  | e22  | e29  | 34   | e14   | e8.0  | 12   |
| 6     | e18  | e42  | e18  | 104  | e22  | 82   | e22  | e26  | 30   | e14   | e7.0  | 14   |
| 7     | e15  | 61   | e18  | 37   | 30   | 49   | e22  | e25  | e30  | e13   | e7.0  | 13   |
| 8     | e14  | e52  | e47  | e49  | 34   | 29   | e22  | e25  | 54   | 22    | e21   | 11   |
| 9     | e15  | e38  | 39   | e45  | 28   | e27  | e22  | e23  | 38   | 12    | 15    | 11   |
| 10    | e14  | e35  | e29  | e40  | e22  | e27  | e22  | e21  | 30   | e14   | e12   | 12   |
| 11    | e14  | 62   | e26  | 69   | e22  | e26  | e21  | e27  | 108  | 8.8   | e10   | 13   |
| 12    | e14  | e40  | e26  | 42   | e22  | e25  | e21  | e25  | 57   | e12   | 79    | 15   |
| 13    | e14  | e30  | e25  | e49  | e21  | e25  | e21  | e21  | 50   | e12   | 8.7   | 19   |
| 14    | e15  | e41  | e23  | e43  | e21  | e24  | e21  | e20  | 38   | e15   | e8.0  | 20   |
| 15    | e14  | e35  | e25  | e38  | e21  | e23  | e21  | e19  | 26   | 11    | e8.0  | 19   |
| 16    | e14  | e33  | 44   | e32  | e20  | e23  | e21  | e19  | 26   | e10   | e8.0  | 28   |
| 17    | e13  | e30  | 39   | e30  | e20  | e23  | e21  | e19  | 28   | e10   | e8.0  | 33   |
| 18    | e13  | e29  | 128  | e55  | e20  | 83   | e21  | e18  | 28   | e10   | e8.0  | 17   |
| 19    | e14  | e27  | 69   | e49  | e28  | 41   | e21  | e17  | 25   | e10   | e7.0  | 15   |
| 20    | e15  | e27  | e47  | e34  | e24  | 27   | 36   | e16  | e18  | e10   | e7.0  | 16   |
| 21    | e14  | e26  | e38  | e34  | e23  | e26  | 192  | e15  | e18  | e10   | e7.0  | 53   |
| 22    | e14  | e26  | e36  | e31  | e27  | e25  | 86   | e15  | e17  | e9.0  | e7.0  | 12   |
| 23    | e14  | e38  | e31  | e61  | e27  | e25  | 262  | 38   | e17  | e14   | e6.0  | e12  |
| 24    | e14  | e33  | e29  | 49   | e27  | 116  | 72   | 47   | e17  | e15   | e6.0  | e12  |
| 25    | e14  | e28  | e30  | e52  | e26  | 51   | 60   | 41   | e18  | e18   | 6.2   | e13  |
| 26    | e15  | e26  | e29  | 64   | e26  | 28   | 60   | 39   | e18  | e23   | 7.9   | e15  |
| 27    | 64   | e27  | e27  | 40   | e27  | 35   | e41  | 52   | e17  | e14   | 9.8   | 18   |
| 28    | e30  | e27  | e26  | 24   | 108  | 28   | e34  | 85   | e17  | e17   | 10    | 24   |
| 29    | e21  | e30  | e26  | 23   | 31   | e23  | 58   | 50   | e16  | e23   | 9.7   | 23   |
| 30    | e20  | e27  | e25  | e22  | ---  | e22  | e36  | 40   | e16  | e24   | 16    | 22   |
| 31    | e22  | ---  | 58   | e38  | ---  | e22  | ---  | 35   | ---  | 16    | 14    | ---  |
| TOTAL | 567  | 1047 | 1079 | 1368 | 827  | 1074 | 1346 | 925  | 956  | 439.8 | 355.4 | 519  |
| MEAN  | 18.3 | 34.9 | 34.8 | 44.1 | 28.5 | 34.6 | 44.9 | 29.8 | 31.9 | 14.2  | 11.5  | 17.3 |
| MAX   | 64   | 62   | 128  | 104  | 108  | 116  | 262  | 85   | 108  | 24    | 79    | 53   |
| MIN   | 11   | 23   | 18   | 22   | 20   | 22   | 21   | 15   | 16   | 8.8   | 6.0   | 10   |
| CFSM  | .96  | 1.83 | 1.82 | 2.31 | 1.49 | 1.81 | 2.35 | 1.56 | 1.67 | .74   | .60   | .91  |
| IN.   | 1.10 | 2.04 | 2.10 | 2.66 | 1.61 | 2.09 | 2.62 | 1.80 | 1.86 | .86   | .69   | 1.01 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1996, 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 | 1996 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 18.6 | 32.1 | 45.4 | 40.8 | 48.5 | 52.3 | 45.8 | 42.5 | 24.4 | 17.1 | 14.7 | 16.3 |      |      |      |      |      |      |      |      |      |      |
| MAX  | 42.6 | 71.4 | 135  | 80.6 | 106  | 116  | 108  | 173  | 58.2 | 38.1 | 38.1 | 37.0 |      |      |      |      |      |      |      |      |      |      |
| (WY) | 1976 | 1987 | 1991 | 1979 | 1991 | 1980 | 1983 | 1991 | 1991 | 1989 | 1975 | 1975 |      |      |      |      |      |      |      |      |      |      |
| MIN  | 8.37 | 13.4 | 18.1 | 16.5 | 23.0 | 23.5 | 13.3 | 10.3 | 5.34 | 5.55 | 4.03 | 4.05 |      |      |      |      |      |      |      |      |      |      |
| (WY) | 1991 | 1982 | 1982 | 1986 | 1986 | 1982 | 1986 | 1988 | 1988 | 1988 | 1988 | 1986 |      |      |      |      |      |      |      |      |      |      |

| SUMMARY STATISTICS       | FOR 1995 CALENDAR YEAR |  |  |  | FOR 1996 WATER YEAR |  |  |  | WATER YEARS 1975 - 1996 |  |  |  |
|--------------------------|------------------------|--|--|--|---------------------|--|--|--|-------------------------|--|--|--|
| ANNUAL TOTAL             | 12726.7                |  |  |  | 10503.2             |  |  |  |                         |  |  |  |
| ANNUAL MEAN              | 34.9                   |  |  |  | 28.7                |  |  |  | 33.0                    |  |  |  |
| HIGHEST ANNUAL MEAN      |                        |  |  |  |                     |  |  |  | 65.0                    |  |  |  |
| LOWEST ANNUAL MEAN       |                        |  |  |  |                     |  |  |  | 17.2                    |  |  |  |
| HIGHEST DAILY MEAN       | 789                    |  |  |  | 262                 |  |  |  | 1200                    |  |  |  |
| LOWEST DAILY MEAN        | 7.6                    |  |  |  | 6.0                 |  |  |  | 2.1                     |  |  |  |
| ANNUAL SEVEN-DAY MINIMUM | 8.2                    |  |  |  | 6.6                 |  |  |  | 2.8                     |  |  |  |
| INSTANTANEOUS PEAK FLOW  |                        |  |  |  | 613                 |  |  |  | 2350                    |  |  |  |
| INSTANTANEOUS PEAK STAGE |                        |  |  |  | 10.37               |  |  |  | 12.71                   |  |  |  |
| ANNUAL RUNOFF (CFSM)     | 1.83                   |  |  |  | 1.50                |  |  |  | 1.73                    |  |  |  |
| ANNUAL RUNOFF (INCHES)   | 24.79                  |  |  |  | 20.46               |  |  |  | 23.45                   |  |  |  |
| 10 PERCENT EXCEEDS       | 60                     |  |  |  | 50                  |  |  |  | 59                      |  |  |  |
| 50 PERCENT EXCEEDS       | 26                     |  |  |  | 23                  |  |  |  | 22                      |  |  |  |
| 90 PERCENT EXCEEDS       | 10                     |  |  |  | 11                  |  |  |  | 9.2                     |  |  |  |

e Estimated

## 02431000 TOMBIGBEE RIVER NEAR FULTON, MS

LOCATION.--Lat 34°15'53", long 88°26'42", in 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 U.S. Highway 78, 1,000 ft downstream from Twentymile-Fulton Canal, 2.2 mi west of Fulton, 6.2 mi upstream from Mantachie Creek Canal, 13.5 mi downstream from Twentymile Creek Canal, and at mile 421.7.

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.--No estimated daily discharges. Records good. 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. 23 | 2200 | *13,600                           | *18.76              | No other peaks greater than base discharge. |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL  | AUG  | SEP  |
|-------|------|------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| 1     | 116  | 107  | 201   | 1540  | 1250  | 1060  | 1430  | 945   | 200   | 117  | 948  | 235  |
| 2     | 118  | 128  | 205   | 1900  | 1210  | 904   | 1000  | 823   | 230   | 121  | 479  | 166  |
| 3     | 144  | 294  | 212   | 2180  | 1080  | 761   | 855   | 712   | 627   | 121  | 185  | 294  |
| 4     | 127  | 293  | 278   | 1760  | 924   | 640   | 769   | 613   | 330   | 123  | 158  | 206  |
| 5     | 122  | 173  | 246   | 1460  | 759   | 572   | 674   | 536   | 229   | 118  | 136  | 142  |
| 6     | 119  | 142  | 236   | 1540  | 675   | 1720  | 622   | 463   | 196   | 115  | 130  | 124  |
| 7     | 109  | 353  | 217   | 2240  | 709   | 3580  | 592   | 393   | 183   | 116  | 128  | 116  |
| 8     | 107  | 768  | 254   | 1830  | 1420  | 3860  | 540   | 342   | 682   | 141  | 142  | 112  |
| 9     | 100  | 371  | 833   | 1510  | 2220  | 2910  | 517   | 334   | 1830  | 331  | 141  | 109  |
| 10    | 98   | 264  | 669   | 1200  | 2420  | 2070  | 468   | 314   | 1890  | 199  | 189  | 109  |
| 11    | 99   | 659  | 456   | 1100  | 2150  | 1540  | 434   | 316   | 2080  | 120  | 143  | 112  |
| 12    | 97   | 991  | 377   | 2110  | 1730  | 1200  | 406   | 442   | 2230  | 104  | 649  | 103  |
| 13    | 154  | 574  | 350   | 1940  | 1370  | 946   | 392   | 392   | 1580  | 100  | 657  | 104  |
| 14    | 137  | 464  | 328   | 1620  | 1060  | 803   | 393   | 322   | 1170  | 101  | 351  | 101  |
| 15    | 102  | 418  | 313   | 1320  | 855   | 726   | 431   | 296   | 828   | 117  | 226  | 103  |
| 16    | 96   | 373  | 990   | 989   | 712   | 756   | 511   | 272   | 534   | 117  | 181  | 106  |
| 17    | 103  | 327  | 1240  | 794   | 618   | 1090  | 417   | 250   | 352   | 109  | 144  | 132  |
| 18    | 112  | 297  | 2040  | 728   | 570   | 850   | 363   | 227   | 280   | 106  | 120  | 168  |
| 19    | 101  | 263  | 3830  | 1380  | 551   | 1980  | 350   | 209   | 240   | 99   | 110  | 126  |
| 20    | 99   | 240  | 3990  | 1090  | 822   | 2540  | 577   | 192   | 217   | 96   | 110  | 113  |
| 21    | 102  | 229  | 2800  | 840   | 805   | 2080  | 2200  | 185   | 194   | 94   | 107  | 403  |
| 22    | 103  | 213  | 1920  | 778   | 666   | 1730  | 6770  | 177   | 174   | 89   | 105  | 920  |
| 23    | 104  | 232  | 1340  | 689   | 629   | 1380  | 10200 | 168   | 154   | 90   | 105  | 287  |
| 24    | 104  | 284  | 914   | 1610  | 599   | 1050  | 11500 | 163   | 174   | 102  | 107  | 162  |
| 25    | 104  | 306  | 660   | 2120  | 545   | 2160  | 6830  | 156   | 172   | 111  | 102  | 130  |
| 26    | 107  | 258  | 513   | 1780  | 503   | 4540  | 3600  | 149   | 243   | 122  | 102  | 120  |
| 27    | 134  | 234  | 417   | 2480  | 481   | 3650  | 2280  | 147   | 187   | 108  | 101  | 250  |
| 28    | 211  | 228  | 352   | 2240  | 1260  | 2740  | 1580  | 232   | 133   | 96   | 103  | 886  |
| 29    | 199  | 220  | 311   | 1770  | 1390  | 2010  | 1170  | 426   | 119   | 96   | 132  | 694  |
| 30    | 125  | 207  | 287   | 1460  | ---   | 1550  | 1140  | 341   | 121   | 116  | 120  | 228  |
| 31    | 111  | ---  | 459   | 1360  | ---   | 1290  | ---   | 218   | ---   | 138  | 466  | ---  |
| TOTAL | 3664 | 9910 | 27238 | 47358 | 29983 | 54688 | 59011 | 10755 | 17579 | 3733 | 6877 | 6861 |
| MEAN  | 118  | 330  | 879   | 1528  | 1034  | 1764  | 1967  | 347   | 586   | 120  | 222  | 229  |
| MAX   | 211  | 991  | 3990  | 2480  | 2420  | 4540  | 11500 | 945   | 2230  | 331  | 948  | 920  |
| MIN   | 96   | 107  | 201   | 689   | 481   | 572   | 350   | 147   | 119   | 89   | 101  | 101  |
| CFSM  | .19  | .54  | 1.44  | 2.50  | 1.69  | 2.88  | 3.21  | .57   | .96   | .20  | .36  | .37  |
| IN.   | .22  | .60  | 1.66  | 2.88  | 1.82  | 3.32  | 3.59  | .65   | 1.07  | .23  | .42  | .42  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1996, BY WATER YEAR (WY)

|      | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 210  | 637  | 1392 | 1212 | 1875 | 1544 | 1021 | 1187 | 671  | 292  | 245  | 172  |
| MAX  | 382  | 2056 | 4885 | 3273 | 4652 | 2771 | 3244 | 7724 | 2880 | 1232 | 931  | 408  |
| (WY) | 1990 | 1987 | 1992 | 1989 | 1990 | 1995 | 1991 | 1991 | 1989 | 1989 | 1992 | 1992 |
| MIN  | 105  | 147  | 293  | 152  | 442  | 540  | 165  | 148  | 92.6 | 113  | 82.8 | 82.0 |
| (WY) | 1988 | 1991 | 1986 | 1986 | 1986 | 1985 | 1986 | 1988 | 1988 | 1986 | 1987 | 1986 |

## SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1985 - 1996

|                          | 1995 CALENDAR YEAR | 1996 WATER YEAR | 1985 - 1996 |
|--------------------------|--------------------|-----------------|-------------|
| ANNUAL TOTAL             | 258154             | 277657          |             |
| ANNUAL MEAN              | 707                | 759             | 867         |
| HIGHEST ANNUAL MEAN      |                    |                 | 1837        |
| LOWEST ANNUAL MEAN       |                    |                 | 353         |
| HIGHEST DAILY MEAN       | 20600              | 11500           | 55100       |
| LOWEST DAILY MEAN        | 85                 | 89              | 33          |
| ANNUAL SEVEN-DAY MINIMUM | 92                 | 97              | 36          |
| INSTANTANEOUS PEAK FLOW  |                    | 13600           | 82200a      |
| INSTANTANEOUS PEAK STAGE |                    | 18.76           | 27.72       |
| ANNUAL RUNOFF (CFSM)     | 1.16               | 1.24            | 1.42        |
| ANNUAL RUNOFF (INCHES)   | 15.69              | 16.88           | 19.24       |
| 10 PERCENT EXCEEDS       | 1350               | 1910            | 1820        |
| 50 PERCENT EXCEEDS       | 342                | 332             | 340         |
| 90 PERCENT EXCEEDS       | 102                | 106             | 109         |

a Gage Height, 25.75 ft, from rating curve extended above 48,000 ft<sup>3</sup>/s on basis of estimate of flow by indirect methods.



## MOBILE RIVER BASIN

02431000 TOMBIGBEE RIVER NEAR FULTON, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY  | OCT  | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL  | AUG   | SEP   |
|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|
| 1    | 7.31 | 7.04  | 7.39  | 14.01 | 12.92 | 12.13 | 13.62 | 11.64 | 7.96  | 7.22 | 11.63 | 8.17  |
| 2    | 7.26 | 7.24  | 7.42  | 14.96 | 12.77 | 11.45 | 11.89 | 11.06 | 8.13  | 7.27 | 9.45  | 7.68  |
| 3    | 7.44 | 8.43  | 7.47  | 15.52 | 12.22 | 10.78 | 11.22 | 10.55 | 10.15 | 7.26 | 7.83  | 8.54  |
| 4    | 7.23 | 8.47  | 7.95  | 14.73 | 11.54 | 10.20 | 10.82 | 10.07 | 8.76  | 7.28 | 7.62  | 7.99  |
| 5    | 7.19 | 7.66  | 7.73  | 13.74 | 10.77 | 9.89  | 10.37 | 9.74  | 8.17  | 7.23 | 7.41  | 7.46  |
| 6    | 7.16 | 7.39  | 7.65  | 13.94 | 10.37 | 13.94 | 10.11 | 9.42  | 7.93  | 7.20 | 7.35  | 7.29  |
| 7    | 7.05 | 8.67  | 7.51  | 15.60 | 10.53 | 16.67 | 9.97  | 9.09  | 7.83  | 7.21 | 7.34  | 7.21  |
| 8    | 7.03 | 10.73 | 7.74  | 14.89 | 13.53 | 16.82 | 9.75  | 8.83  | 10.20 | 7.46 | 7.47  | 7.16  |
| 9    | 6.96 | 8.89  | 10.98 | 13.93 | 15.56 | 16.26 | 9.65  | 8.79  | 14.91 | 8.71 | 7.45  | 7.14  |
| 10   | 6.93 | 8.31  | 10.10 | 12.71 | 15.86 | 15.33 | 9.44  | 8.68  | 15.07 | 8.12 | 7.87  | 7.13  |
| 11   | 6.94 | 10.18 | 9.00  | 12.26 | 15.48 | 14.03 | 9.29  | 8.69  | 15.35 | 7.41 | 7.47  | 7.16  |
| 12   | 6.91 | 11.67 | 8.57  | 15.39 | 14.65 | 12.72 | 9.15  | 9.31  | 15.58 | 7.21 | 10.20 | 7.07  |
| 13   | 7.49 | 9.60  | 8.41  | 15.13 | 13.41 | 11.64 | 9.09  | 9.08  | 14.14 | 7.17 | 10.29 | 7.08  |
| 14   | 7.33 | 9.04  | 8.28  | 14.30 | 12.14 | 10.97 | 9.09  | 8.73  | 12.59 | 7.18 | 8.86  | 7.05  |
| 15   | 6.98 | 8.80  | 8.18  | 13.20 | 11.22 | 10.62 | 9.27  | 8.58  | 11.09 | 7.38 | 8.14  | 7.07  |
| 16   | 6.91 | 8.55  | 11.59 | 11.83 | 10.55 | 10.75 | 9.63  | 8.44  | 9.72  | 7.37 | 7.81  | 7.10  |
| 17   | 6.99 | 8.27  | 12.87 | 10.93 | 10.09 | 12.27 | 9.20  | 8.30  | 8.88  | 7.28 | 7.49  | 7.37  |
| 18   | 7.09 | 8.08  | 15.25 | 10.62 | 9.88  | 11.19 | 8.94  | 8.15  | 8.48  | 7.25 | 7.25  | 7.70  |
| 19   | 6.97 | 7.85  | 16.72 | 13.44 | 9.80  | 14.89 | 8.87  | 8.02  | 8.24  | 7.15 | 7.15  | 7.31  |
| 20   | 6.95 | 7.68  | 16.87 | 12.24 | 11.06 | 15.96 | 9.91  | 7.90  | 8.08  | 7.12 | 7.15  | 7.18  |
| 21   | 6.98 | 7.60  | 16.16 | 11.15 | 10.98 | 15.38 | 15.36 | 7.84  | 7.92  | 7.08 | 7.11  | 8.88  |
| 22   | 6.99 | 7.48  | 15.04 | 10.86 | 10.33 | 14.65 | 17.51 | 7.78  | 7.76  | 7.01 | 7.09  | 11.49 |
| 23   | 7.00 | 7.62  | 13.27 | 10.44 | 10.15 | 13.41 | 18.15 | 7.70  | 7.58  | 7.03 | 7.09  | 8.49  |
| 24   | 7.00 | 8.00  | 11.49 | 13.90 | 10.00 | 12.08 | 18.39 | 7.66  | 7.75  | 7.18 | 7.11  | 7.65  |
| 25   | 7.00 | 8.14  | 10.30 | 15.42 | 9.77  | 14.59 | 17.52 | 7.60  | 7.74  | 7.30 | 7.05  | 7.35  |
| 26   | 7.03 | 7.81  | 9.63  | 14.77 | 9.59  | 17.07 | 16.67 | 7.53  | 8.24  | 7.44 | 7.05  | 7.25  |
| 27   | 7.30 | 7.63  | 9.21  | 15.89 | 9.50  | 16.71 | 15.63 | 7.51  | 7.85  | 7.27 | 7.04  | 7.98  |
| 28   | 7.94 | 7.59  | 8.88  | 15.60 | 12.85 | 16.13 | 14.15 | 8.15  | 7.38  | 7.12 | 7.07  | 11.35 |
| 29   | 7.85 | 7.53  | 8.66  | 14.75 | 13.48 | 15.23 | 12.58 | 9.24  | 7.24  | 7.10 | 7.37  | 10.47 |
| 30   | 7.22 | 7.44  | 8.53  | 13.73 | ---   | 14.06 | 12.49 | 8.82  | 7.26  | 7.36 | 7.25  | 8.15  |
| 31   | 7.08 | ---   | 9.35  | 13.36 | ---   | 13.07 | ---   | 8.08  | ---   | 7.61 | 9.26  | ---   |
| MEAN | 7.15 | 8.31  | 10.26 | 13.65 | 11.76 | 13.58 | 11.92 | 8.74  | 9.60  | 7.32 | 7.86  | 7.90  |
| MAX  | 7.94 | 11.67 | 16.87 | 15.89 | 15.86 | 17.07 | 18.39 | 11.64 | 15.58 | 8.71 | 11.63 | 11.49 |
| MIN  | 6.91 | 7.04  | 7.39  | 10.44 | 9.50  | 9.89  | 8.87  | 7.51  | 7.24  | 7.01 | 7.04  | 7.05  |

## MOBILE RIVER BASIN

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02431000 TOMBIGBEE RIVER NEAR FULTON, MS--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959, 1962-65, 1972-85, 1989 to current year.

SUSPENDED SEDIMENT DISCHARGE, 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>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   |      |                                                                       |                                                      |                                                                          |                                                                          |
| 16... | 1440 | 986                                                                   | 106                                                  | 282                                                                      | --                                                                       |
| FEB   |      |                                                                       |                                                      |                                                                          |                                                                          |
| 21... | 1550 | 756                                                                   | 129                                                  | 263                                                                      | --                                                                       |
| MAR   |      |                                                                       |                                                      |                                                                          |                                                                          |
| 06... | 0715 | 1220                                                                  | 500                                                  | 1650                                                                     | --                                                                       |
| 06... | 1105 | 1720                                                                  | 1130                                                 | 5250                                                                     | --                                                                       |
| 06... | 1510 | 2060                                                                  | 1220                                                 | 6790                                                                     | --                                                                       |
| 07... | 0830 | 3400                                                                  | 570                                                  | 5230                                                                     | 56                                                                       |
| 07... | 1630 | 3790                                                                  | 553                                                  | 5660                                                                     | --                                                                       |
| 07... | 1940 | 3950                                                                  | 482                                                  | 5140                                                                     | --                                                                       |
| 19... | 1300 | 2120                                                                  | 1070                                                 | 6120                                                                     | --                                                                       |
| 19... | 1700 | 2340                                                                  | 741                                                  | 4680                                                                     | --                                                                       |
| 19... | 2130 | 2580                                                                  | 428                                                  | 2980                                                                     | 68                                                                       |
| 20... | 0740 | 2700                                                                  | 303                                                  | 2210                                                                     | --                                                                       |
| 20... | 1030 | 2600                                                                  | 267                                                  | 1870                                                                     | --                                                                       |
| APR   |      |                                                                       |                                                      |                                                                          |                                                                          |
| 02... | 1645 | 941                                                                   | 160                                                  | 407                                                                      | --                                                                       |

| 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) |
|-------|------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|
|       |      |                                                                         |                                                                         |                                                                         |                                                                         |                                                                         |                                                                         |                                                                         |                                                                         |                                                                         |
| MAR   |      |                                                                         |                                                                         |                                                                         |                                                                         |                                                                         |                                                                         |                                                                         |                                                                         |                                                                         |
| 07... | 0830 | 28                                                                      | 35                                                                      | 39                                                                      | 45                                                                      | 52                                                                      | 56                                                                      | 66                                                                      | 99                                                                      | 100                                                                     |
| 19... | 2130 | 31                                                                      | 42                                                                      | 47                                                                      | 54                                                                      | 63                                                                      | 68                                                                      | 77                                                                      | 97                                                                      | 100                                                                     |

## MOBILE RIVER BASIN

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. U. S. Army Corps of Engineers radio 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 7.91 ft, Mar. 7, minimum discharge, 17 ft<sup>3</sup>/s, Jul. 5-7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT  | NOV | DEC | JAN | FEB | MAR | APR | MAY  | JUN  | JUL  | AUG  | SEP |
|-------|------|-----|-----|-----|-----|-----|-----|------|------|------|------|-----|
| 1     | 21   | 40  | 78  | --- | --- | --- | --- | 174  | 45   | 20   | 124  | 59  |
| 2     | 20   | 51  | 74  | --- | --- | --- | --- | 155  | 44   | 20   | 69   | 45  |
| 3     | 23   | 87  | 71  | --- | --- | 183 | --- | 140  | 50   | 19   | 46   | 48  |
| 4     | 37   | 79  | 88  | --- | --- | 163 | 191 | 128  | 51   | 19   | 39   | 48  |
| 5     | 70   | 60  | 98  | --- | 189 | 160 | 180 | 117  | 42   | 18   | 33   | 42  |
| 6     | 90   | 54  | 82  | --- | 197 | --- | 170 | 110  | 38   | 18   | 28   | 36  |
| 7     | 45   | 127 | 75  | --- | --- | --- | 163 | 105  | 35   | 18   | 49   | 32  |
| 8     | 33   | --- | 84  | --- | --- | --- | 154 | 130  | 36   | 24   | 57   | 31  |
| 9     | 29   | 123 | --- | --- | --- | --- | 148 | 104  | 61   | 98   | 115  | 29  |
| 10    | 27   | 92  | --- | --- | --- | --- | 139 | 92   | 54   | 61   | 90   | 32  |
| 11    | 26   | 164 | 177 | --- | --- | --- | 132 | 84   | 64   | 31   | 48   | 39  |
| 12    | 25   | --- | 146 | --- | --- | --- | 129 | 85   | 131  | 26   | 152  | 31  |
| 13    | 24   | 163 | 129 | --- | 192 | --- | 130 | 80   | 73   | 23   | 162  | 27  |
| 14    | 26   | 139 | 116 | --- | 182 | --- | 133 | 76   | 55   | 25   | 86   | 26  |
| 15    | 34   | 124 | 108 | --- | 175 | --- | 141 | 73   | 47   | 40   | 62   | 25  |
| 16    | 33   | 109 | 178 | --- | 161 | 192 | 143 | 67   | 41   | 42   | 52   | 46  |
| 17    | 27   | 99  | --- | --- | 149 | 180 | 122 | 63   | 36   | 28   | 44   | 194 |
| 18    | 25   | 91  | --- | --- | 145 | 172 | 117 | 59   | 33   | 24   | 41   | 104 |
| 19    | 24   | 85  | --- | --- | 147 | --- | 120 | 55   | 31   | 24   | 37   | 63  |
| 20    | 25   | 80  | --- | --- | --- | --- | 129 | 52   | 30   | 22   | 33   | 49  |
| 21    | 28   | 74  | --- | --- | 185 | --- | --- | 48   | 28   | 20   | 31   | 105 |
| 22    | 28   | 70  | --- | --- | 162 | --- | --- | 46   | 26   | 19   | 30   | 195 |
| 23    | 25   | 74  | --- | 185 | 153 | --- | --- | 44   | 25   | 30   | 29   | 98  |
| 24    | 24   | 117 | 181 | --- | 145 | 191 | --- | 41   | 25   | 60   | 34   | 69  |
| 25    | 24   | 96  | 162 | --- | 133 | --- | --- | 38   | 41   | 32   | 28   | 56  |
| 26    | 24   | 84  | 148 | --- | 127 | --- | --- | 36   | 28   | 28   | 30   | 51  |
| 27    | 40   | 80  | 137 | --- | 127 | --- | --- | 36   | 26   | 25   | 39   | 119 |
| 28    | 150  | 77  | 128 | --- | --- | --- | --- | 60   | 24   | 28   | 33   | --- |
| 29    | 79   | 85  | 118 | --- | --- | --- | 196 | 90   | 22   | 57   | 36   | 162 |
| 30    | 49   | 88  | 113 | --- | --- | --- | 199 | 57   | 21   | 46   | 34   | 105 |
| 31    | 42   | --- | 127 | --- | --- | --- | --- | 50   | ---  | 71   | 54   | --- |
| TOTAL | 1177 | --- | --- | --- | --- | --- | --- | 2495 | 1263 | 1016 | 1745 | --- |
| MEAN  | 38.0 | --- | --- | --- | --- | --- | --- | 80.5 | 42.1 | 32.8 | 56.3 | --- |
| MAX   | 150  | --- | --- | --- | --- | --- | --- | 174  | 131  | 98   | 162  | --- |
| MIN   | 20   | --- | --- | --- | --- | --- | --- | 36   | 21   | 18   | 28   | --- |
| CFSM  | .28  | --- | --- | --- | --- | --- | --- | .59  | .31  | .24  | .41  | --- |
| IN.   | .32  | --- | --- | --- | --- | --- | --- | .68  | .35  | .28  | .48  | --- |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1996, BY WATER YEAR (WY)

|      | MEAN | 40.0 | 125  | 225  | 359  | 477  | 447  | 328  | 161  | 71.3 | 53.9 | 38.6 | 42.5 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MAX  | 118  | 714  | 1132 | 1027 | 1095 | 907  | 902  | 681  | 188  | 149  | 124  | 256  |      |
| (WY) | 1961 | 1958 | 1962 | 1949 | 1948 | 1955 | 1962 | 1963 | 1974 | 1989 | 1950 | 1950 |      |
| MIN  | 13.4 | 26.1 | 41.5 | 64.4 | 113  | 136  | 60.7 | 36.3 | 13.2 | 12.8 | 8.82 | 7.18 |      |
| (WY) | 1944 | 1944 | 1944 | 1956 | 1978 | 1985 | 1986 | 1992 | 1988 | 1990 | 1988 | 1954 |      |

SUMMARY STATISTICS

WATER YEARS 1944 - 1996

|                          |       |             |
|--------------------------|-------|-------------|
| ANNUAL MEAN              | 213   |             |
| HIGHEST ANNUAL MEAN      | 361   | 1962        |
| LOWEST ANNUAL MEAN       | 125   | 1954        |
| HIGHEST DAILY MEAN       | 10300 | Mar 21 1955 |
| LOWEST DAILY MEAN        | 4.0   | Aug 18 1988 |
| ANNUAL SEVEN-DAY MINIMUM | 4.5   | Aug 27 1988 |
| ANNUAL RUNOFF (CFSM)     | 1.56  |             |
| ANNUAL RUNOFF (INCHES)   | 21.25 |             |
| 10 PERCENT EXCEEDS       | 292   |             |
| 50 PERCENT EXCEEDS       | 79    |             |
| 90 PERCENT EXCEEDS       | 21    |             |

## 02433500 TOMBIGBEE RIVER AT BIGBEE, MS

LOCATION.--Lat 34° 00'42", long 88° 30'50", 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, 2.4 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: Oct. 1-4, Feb. 4-6. 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. U.S. Army Corps of Engineers radio telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of 1973 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. 22 | 0230 | 12,300                            | 14.65               | Apr. 25 | 0945 | *20,000                           | *17.15              |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN    | FEB   | MAR    | APR    | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|--------|-------|--------|--------|-------|-------|-------|-------|-------|
| 1     | e300  | 283   | 684   | 2910   | 3050  | 3050   | 2600   | 2180  | 351   | 254   | 1110  | 628   |
| 2     | e600  | 728   | 482   | 6450   | 3850  | 2660   | 2400   | 2110  | 324   | 243   | 1260  | 746   |
| 3     | e800  | 977   | 816   | 4660   | 3120  | 1850   | 2000   | 1450  | 401   | 248   | 834   | 434   |
| 4     | e900  | 483   | 536   | 4140   | e2300 | 1550   | 2070   | 1480  | 867   | 248   | 398   | 610   |
| 5     | 563   | 689   | 924   | 4160   | e2000 | 1530   | 1580   | 1670  | 416   | 248   | 338   | 401   |
| 6     | 324   | 873   | 605   | 5500   | e1800 | 4330   | 1500   | 948   | 334   | 245   | 317   | 328   |
| 7     | 287   | 1240  | 625   | 6730   | 2200  | 6660   | 1220   | 1010  | 394   | 246   | 306   | 297   |
| 8     | 273   | 1540  | 1160  | 4790   | 3010  | 6430   | 1340   | 924   | 1350  | 2340  | 324   | 281   |
| 9     | 261   | 1470  | 3960  | 4700   | 3830  | 6930   | 1130   | 786   | 2190  | 745   | 1530  | 269   |
| 10    | 257   | 998   | 2760  | 3820   | 3550  | 5720   | 834    | 832   | 1890  | 494   | 427   | 264   |
| 11    | 251   | 2100  | 1640  | 3330   | 3590  | 4210   | 780    | 881   | 2820  | 402   | 680   | 263   |
| 12    | 242   | 2380  | 1190  | 5230   | 3260  | 3100   | 897    | 797   | 3500  | 301   | 2260  | 264   |
| 13    | 390   | 2190  | 704   | 3800   | 2850  | 2440   | 964    | 598   | 3850  | 373   | 1580  | 254   |
| 14    | 278   | 1480  | 1020  | 4030   | 2570  | 2240   | 989    | 543   | 2870  | 265   | 1460  | 252   |
| 15    | 310   | 903   | 838   | 3510   | 2060  | 1630   | 1490   | 487   | 1740  | 354   | 610   | 255   |
| 16    | 272   | 957   | 2970  | 2660   | 1440  | 1400   | 959    | 539   | 1200  | 361   | 428   | 1030  |
| 17    | 218   | 718   | 3040  | 2240   | 1460  | 1990   | 1140   | 612   | 661   | 348   | 371   | 1150  |
| 18    | 322   | 754   | 5350  | 1870   | 1320  | 1890   | 697    | 406   | 536   | 413   | 328   | 372   |
| 19    | 263   | 849   | 9500  | 2800   | 1500  | 4620   | 1200   | 385   | 605   | 277   | 299   | 357   |
| 20    | 259   | 572   | 6110  | 2880   | 2120  | 3760   | 1680   | 780   | 600   | 266   | 281   | 308   |
| 21    | 254   | 759   | 5660  | 2270   | 2100  | 3920   | 6570   | 340   | 426   | 307   | 273   | 1980  |
| 22    | 253   | 711   | 5630  | 1890   | 1600  | 3610   | 9660   | 441   | 379   | 255   | 267   | 2270  |
| 23    | 245   | 658   | 4020  | 1480   | 1490  | 3180   | 15300  | 366   | 349   | 707   | 264   | 1100  |
| 24    | 243   | 812   | 2800  | 4150   | 1330  | 2470   | 18500  | 524   | 588   | 337   | 261   | 816   |
| 25    | 238   | 810   | 2180  | 3610   | 1240  | 7140   | 18700  | 291   | 344   | 354   | 260   | 403   |
| 26    | 237   | 909   | 1620  | 4490   | 1070  | 6080   | 13000  | 286   | 610   | 321   | 258   | 402   |
| 27    | 1010  | 602   | 1490  | 6230   | 853   | 5020   | 7360   | 553   | 395   | 620   | 262   | 711   |
| 28    | 613   | 612   | 1050  | 4470   | 4880  | 5510   | 4870   | 1120  | 347   | 566   | 309   | 790   |
| 29    | 476   | 524   | 1190  | 4460   | 3570  | 4660   | 3580   | 505   | 286   | 427   | 278   | 1040  |
| 30    | 700   | 533   | 736   | 3730   | ---   | 4180   | 2950   | 648   | 267   | 618   | 315   | 1050  |
| 31    | 381   | ---   | 1580  | 3270   | ---   | 3290   | ---    | 776   | ---   | 916   | 388   | ---   |
| TOTAL | 12060 | 29114 | 72870 | 120260 | 69013 | 117050 | 127960 | 25268 | 30890 | 14099 | 18276 | 19325 |
| MEAN  | 389   | 970   | 2351  | 3879   | 2380  | 3776   | 4265   | 815   | 1030  | 455   | 590   | 644   |
| MAX   | 1010  | 2380  | 9500  | 6730   | 4880  | 7140   | 18700  | 2180  | 3850  | 2340  | 2270  | 2270  |
| MIN   | 237   | 283   | 482   | 1480   | 853   | 1400   | 697    | 286   | 267   | 243   | 258   | 252   |
| CFSM  | .32   | .79   | 1.92  | 3.16   | 1.94  | 3.08   | 3.48   | .66   | .84   | .37   | .48   | .53   |
| IN.   | .37   | .88   | 2.21  | 3.65   | 2.09  | 3.55   | 3.88   | .77   | .94   | .43   | .55   | .59   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1996, BY WATER YEAR (WY)

|      | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992  | 1993 | 1994 | 1995 | 1996 |
|------|------|------|------|------|------|------|------|-------|------|------|------|------|
| MEAN | 516  | 1163 | 2891 | 2412 | 3780 | 3285 | 2352 | 2641  | 1315 | 634  | 477  | 530  |
| MAX  | 919  | 3666 | 9297 | 5869 | 9187 | 6211 | 7958 | 17810 | 4383 | 1900 | 897  | 1770 |
| (WY) | 1985 | 1987 | 1991 | 1989 | 1991 | 1995 | 1991 | 1991  | 1989 | 1989 | 1993 | 1993 |
| MIN  | 247  | 341  | 593  | 343  | 858  | 925  | 382  | 331   | 242  | 283  | 219  | 209  |
| (WY) | 1988 | 1991 | 1986 | 1986 | 1986 | 1988 | 1988 | 1988  | 1988 | 1988 | 1987 | 1986 |

| SUMMARY STATISTICS       | FOR 1995 CALENDAR YEAR | FOR 1996 WATER YEAR | WATER YEARS 1985 - 1996 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 685551                 | 656185              | 1824                    |
| ANNUAL MEAN              | 1878                   | 1793                | 4530                    |
| HIGHEST ANNUAL MEAN      |                        |                     | 513                     |
| LOWEST ANNUAL MEAN       |                        |                     | 89500                   |
| HIGHEST DAILY MEAN       | 32800                  | 18700               | May 28 1991             |
| LOWEST DAILY MEAN        | 230                    | 237                 | Oct 7 1984              |
| ANNUAL SEVEN-DAY MINIMUM | 243                    | 247                 | Oct 20 1984             |
| INSTANTANEOUS PEAK FLOW  |                        | 20000               | Mar 17 1973             |
| INSTANTANEOUS PEAK STAGE |                        | 17.15               | Mar 17 1973             |
| INSTANTANEOUS LOW FLOW   |                        | 227                 | Sep 15 1954             |
| ANNUAL RUNOFF (CFSM)     | 1.53                   | 1.46                |                         |
| ANNUAL RUNOFF (INCHES)   | 20.80                  | 19.91               |                         |
| 10 PERCENT EXCEEDS       | 3630                   | 4250                | 3870                    |
| 50 PERCENT EXCEEDS       | 900                    | 906                 | 734                     |
| 90 PERCENT EXCEEDS       | 263                    | 268                 | 262                     |

e Estimated



## MOBILE RIVER BASIN

02433500 TOMBIGBEE RIVER AT BIGBEE, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY  | OCT  | NOV  | DEC   | JAN   | FEB  | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|-------|-------|------|-------|-------|------|------|------|------|------|
| 1    | ---  | 4.04 | 4.49  | 7.33  | 7.66 | 7.66  | 6.93  | 6.45 | 4.16 | 3.85 | 5.22 | 4.58 |
| 2    | ---  | 4.78 | 4.19  | 11.28 | 8.84 | 7.02  | 6.63  | 6.44 | 4.09 | 3.82 | 5.38 | 4.70 |
| 3    | ---  | 5.09 | 4.62  | 9.76  | 7.73 | 5.98  | 6.14  | 5.64 | 4.26 | 3.84 | 4.87 | 4.27 |
| 4    | ---  | 4.48 | 4.30  | 9.17  | ---  | 5.66  | 6.23  | 5.67 | 4.95 | 3.84 | 4.22 | 4.58 |
| 5    | 4.53 | 4.80 | 4.81  | 9.21  | ---  | 5.62  | 5.67  | 5.88 | 4.30 | 3.83 | 4.08 | 4.21 |
| 6    | 4.15 | 4.93 | 4.40  | 10.37 | ---  | 9.38  | 5.58  | 5.08 | 4.12 | 3.83 | 4.03 | 4.04 |
| 7    | 4.05 | 5.41 | 4.44  | 11.61 | 6.43 | 11.60 | 5.28  | 5.15 | 4.21 | 3.83 | 4.00 | 3.97 |
| 8    | 4.01 | 5.74 | 5.14  | 9.94  | 7.57 | 11.43 | 5.41  | 5.03 | 5.41 | 6.71 | 4.02 | 3.92 |
| 9    | 3.97 | 5.63 | 8.88  | 9.84  | 8.80 | 11.82 | 5.17  | 4.86 | 6.46 | 4.75 | 5.69 | 3.89 |
| 10   | 3.96 | 5.04 | 7.14  | 8.79  | 8.43 | 10.82 | 4.84  | 4.90 | 6.10 | 4.40 | 4.26 | 3.87 |
| 11   | 3.94 | 6.31 | 5.63  | 7.99  | 8.49 | 9.26  | 4.78  | 4.95 | 7.35 | 4.22 | 4.62 | 3.87 |
| 12   | 3.91 | 6.58 | 5.12  | 10.36 | 8.00 | 7.74  | 4.91  | 4.85 | 8.28 | 3.98 | 6.65 | 3.87 |
| 13   | 4.24 | 6.31 | 4.56  | 8.78  | 7.31 | 6.74  | 4.98  | 4.63 | 8.76 | 4.15 | 5.73 | 3.84 |
| 14   | 4.02 | 5.45 | 4.92  | 9.07  | 6.90 | 6.48  | 5.01  | 4.54 | 7.39 | 3.89 | 5.59 | 3.84 |
| 15   | 4.11 | 4.81 | 4.71  | 8.34  | 6.28 | 5.73  | 5.56  | 4.44 | 5.90 | 4.11 | 4.59 | 3.85 |
| 16   | 4.00 | 4.87 | 7.52  | 6.99  | 5.51 | 5.47  | 4.99  | 4.51 | 5.32 | 4.13 | 4.27 | 4.97 |
| 17   | 3.96 | 4.58 | 7.58  | 6.44  | 5.53 | 6.15  | 5.18  | 4.60 | 4.68 | 4.10 | 4.15 | 5.18 |
| 18   | 4.11 | 4.60 | 10.31 | 6.06  | 5.39 | 6.05  | 4.66  | 4.28 | 4.48 | 4.23 | 4.04 | 4.15 |
| 19   | 3.98 | 4.70 | 13.31 | 7.25  | 5.62 | 9.74  | 5.23  | 4.24 | 4.59 | 3.92 | 3.97 | 4.11 |
| 20   | 3.97 | 4.36 | 11.17 | 7.36  | 6.29 | 8.71  | 5.77  | 4.78 | 4.57 | 3.89 | 3.92 | 3.99 |
| 21   | 3.95 | 4.59 | 10.80 | 6.49  | 6.26 | 8.93  | 10.85 | 4.13 | 4.28 | 3.98 | 3.90 | 6.27 |
| 22   | 3.95 | 4.51 | 10.77 | 6.03  | 5.69 | 8.52  | 13.35 | 4.31 | 4.17 | 3.85 | 3.88 | 6.54 |
| 23   | 3.93 | 4.45 | 8.97  | 5.56  | 5.58 | 7.87  | 15.56 | 4.17 | 4.11 | 4.55 | 3.87 | 5.19 |
| 24   | 3.92 | 4.67 | 7.18  | 9.06  | 5.40 | 6.77  | 16.75 | 4.44 | 4.50 | 4.02 | 3.87 | 4.79 |
| 25   | 3.90 | 4.67 | 6.29  | 8.50  | 5.30 | 11.27 | 16.81 | 4.01 | 4.09 | 4.11 | 3.86 | 4.21 |
| 26   | 3.90 | 4.77 | 5.61  | 9.40  | 5.12 | 11.00 | 14.85 | 3.99 | 4.54 | 4.04 | 3.85 | 4.17 |
| 27   | 4.99 | 4.41 | 5.46  | 11.26 | 4.87 | 10.17 | 12.04 | 4.41 | 4.21 | 4.42 | 3.87 | 4.57 |
| 28   | 4.67 | 4.40 | 4.98  | 9.57  | 9.35 | 10.66 | 9.99  | 5.26 | 4.10 | 4.40 | 3.99 | 4.72 |
| 29   | 4.45 | 4.28 | 5.12  | 9.57  | 8.20 | 9.79  | 8.49  | 4.47 | 3.94 | 4.27 | 3.91 | 5.14 |
| 30   | 4.71 | 4.29 | 4.61  | 8.66  | ---  | 9.21  | 7.52  | 4.70 | 3.89 | 4.49 | 4.00 | 5.10 |
| 31   | 4.22 | ---  | 5.56  | 7.97  | ---  | 8.04  | ---   | 4.81 | ---  | 4.81 | 4.14 | ---  |
| MEAN | ---  | 4.92 | 6.54  | 8.65  | ---  | 8.43  | 7.84  | 4.83 | 5.04 | 4.20 | 4.40 | 4.48 |
| MAX  | ---  | 6.58 | 13.31 | 11.61 | ---  | 11.82 | 16.81 | 6.45 | 8.76 | 6.71 | 6.65 | 6.54 |
| MIN  | ---  | 4.04 | 4.19  | 5.56  | ---  | 5.47  | 4.66  | 3.99 | 3.89 | 3.82 | 3.85 | 3.84 |

02433500 TOMBIGBEE RIVER AT BIGBEE, MS--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969-71, 1989 to current year.

SUSPENDED SEDIMENT DISCHARGE, 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>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>22... | 1630 | 2360                                                                  | 64                                                                      | 408                                                                      |
| FEB<br>28... | 1025 | 2750                                                                  | 776                                                                     | 5760                                                                     |
| APR<br>11... | 1030 | 774                                                                   | 38                                                                      | 79                                                                       |

## MOBILE RIVER BASIN

02435020 TOWN CREEK AT EASON BOULEVARD AT TUPELO, MS

LOCATION.--Lat 34°14'08", long 88°41'43", on line between secs.5 and 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.--Estimated daily discharges: Feb. 3-7, 16-19, 22-23, 25-27, Apr. 2-20, Aug. 6-8, 10-11, 15-27, 29-30, Sept. 1-6. Records fair except for estimated daily discharges, which are poor. National Weather Service 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.23                                                                                           | 0615  | *7,870                            | *21.39              | No peaks greater than base discharge. |       |                                   |                     |      |      |      |      |        |
| DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996<br>DAILY MEAN VALUES |       |                                   |                     |                                       |       |                                   |                     |      |      |      |      |        |
| DAY                                                                                              | OCT   | NOV                               | DEC                 | JAN                                   | FEB   | MAR                               | APR                 | MAY  | JUN  | JUL  | AUG  | SEP    |
| 1                                                                                                | 11    | 15                                | 47                  | 765                                   | 389   | 318                               | 161                 | 379  | 41   | 31   | 563  | e33    |
| 2                                                                                                | 11    | 36                                | 51                  | 1460                                  | 417   | 248                               | e125                | 294  | 390  | 28   | 168  | e44    |
| 3                                                                                                | 21    | 74                                | 43                  | 546                                   | e350  | 197                               | e110                | 209  | 138  | 25   | 110  | e47    |
| 4                                                                                                | 15    | 38                                | 124                 | 371                                   | e300  | 176                               | e105                | 147  | 92   | 23   | 80   | e25    |
| 5                                                                                                | 19    | 21                                | 70                  | 290                                   | e360  | 231                               | e100                | 121  | 54   | 22   | 62   | e18    |
| 6                                                                                                | 13    | 33                                | 51                  | 1510                                  | e320  | 1440                              | e95                 | 102  | 42   | 20   | e43  | e17    |
| 7                                                                                                | 11    | 342                               | 44                  | 765                                   | e300  | 1440                              | e90                 | 88   | 34   | 20   | e60  | 18     |
| 8                                                                                                | 10    | 191                               | 235                 | 407                                   | 1090  | 579                               | e86                 | 82   | 1580 | 128  | e50  | 15     |
| 9                                                                                                | 10    | 51                                | 675                 | 326                                   | 1150  | 438                               | e84                 | 70   | 708  | 111  | 65   | 13     |
| 10                                                                                               | 11    | 38                                | 153                 | 276                                   | 666   | 366                               | e100                | 60   | 322  | 34   | e40  | 12     |
| 11                                                                                               | 11    | 553                               | 90                  | 1020                                  | 531   | 301                               | e129                | 89   | 1620 | 29   | e130 | 11     |
| 12                                                                                               | 10    | 206                               | 76                  | 976                                   | 426   | 267                               | e110                | 83   | 454  | 24   | 409  | 9.0    |
| 13                                                                                               | 10    | 83                                | 67                  | 492                                   | 342   | 237                               | e100                | 58   | 234  | 22   | 108  | 6.9    |
| 14                                                                                               | 12    | 71                                | 59                  | 365                                   | 283   | 214                               | e95                 | 51   | 300  | 46   | 70   | 6.4    |
| 15                                                                                               | 10    | 55                                | 394                 | 276                                   | 244   | 196                               | e120                | 48   | 205  | 56   | e45  | 6.8    |
| 16                                                                                               | 10    | 48                                | 951                 | 231                                   | e210  | 230                               | e110                | 44   | 135  | 32   | e35  | 28     |
| 17                                                                                               | 9.5   | 44                                | 970                 | 202                                   | e190  | 311                               | e100                | 39   | 80   | 26   | e30  | 48     |
| 18                                                                                               | 9.9   | 40                                | 2480                | 390                                   | e175  | 329                               | e96                 | 35   | 165  | 22   | e25  | 18     |
| 19                                                                                               | 9.3   | 37                                | 1460                | 570                                   | e160  | 1530                              | e93                 | 30   | 172  | 20   | e36  | 16     |
| 20                                                                                               | 9.7   | 35                                | 688                 | 314                                   | 349   | 581                               | e900                | 26   | 56   | 20   | e35  | 15     |
| 21                                                                                               | 8.6   | 33                                | 486                 | 269                                   | 261   | 444                               | 3160                | 22   | 44   | 19   | e34  | 767    |
| 22                                                                                               | 8.9   | 31                                | 377                 | 225                                   | e210  | 367                               | 1850                | 22   | 37   | 20   | e33  | 230    |
| 23                                                                                               | 9.1   | 52                                | 280                 | 201                                   | e190  | 296                               | 5110                | 20   | 38   | 30   | e30  | 92     |
| 24                                                                                               | 9.5   | 59                                | 196                 | 1610                                  | 279   | 258                               | 1620                | 19   | 42   | 39   | e25  | 47     |
| 25                                                                                               | 9.1   | 42                                | 157                 | 569                                   | e200  | 2690                              | 1120                | 17   | 51   | 40   | e18  | 30     |
| 26                                                                                               | 11    | 37                                | 131                 | 1100                                  | e140  | 837                               | 889                 | 16   | 233  | 40   | e15  | 21     |
| 27                                                                                               | 53    | 35                                | 116                 | 899                                   | e130  | 470                               | 716                 | 29   | 55   | 62   | e20  | 483    |
| 28                                                                                               | 48    | 35                                | 103                 | 519                                   | 1280  | 384                               | 606                 | 153  | 36   | 41   | 101  | 671    |
| 29                                                                                               | 20    | 34                                | 96                  | 426                                   | 453   | 333                               | 642                 | 89   | 36   | 285  | e45  | 336    |
| 30                                                                                               | 13    | 31                                | 92                  | 379                                   | ---   | 247                               | 538                 | 95   | 34   | 189  | e26  | 220    |
| 31                                                                                               | 12    | ---                               | 661                 | 554                                   | ---   | 199                               | ---                 | 48   | ---  | 421  | 84   | ---    |
| TOTAL                                                                                            | 435.6 | 2400                              | 11423               | 18303                                 | 11395 | 16154                             | 19160               | 2585 | 7428 | 1925 | 2595 | 3304.1 |
| MEAN                                                                                             | 14.1  | 80.0                              | 368                 | 590                                   | 393   | 521                               | 639                 | 83.4 | 248  | 62.1 | 83.7 | 110    |
| MAX                                                                                              | 53    | 553                               | 2480                | 1610                                  | 1280  | 2690                              | 5110                | 379  | 1620 | 421  | 563  | 767    |
| MIN                                                                                              | 8.6   | 15                                | 43                  | 201                                   | 130   | 176                               | 84                  | 16   | 34   | 19   | 15   | 6.4    |
| CFSM                                                                                             | .06   | .34                               | 1.58                | 2.53                                  | 1.69  | 2.24                              | 2.74                | .36  | 1.06 | .27  | .36  | .47    |
| IN.                                                                                              | .07   | .38                               | 1.82                | 2.92                                  | 1.82  | 2.58                              | 3.06                | .41  | 1.19 | .31  | .41  | .53    |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1996, BY WATER YEAR (WY)

|      | MEAN | 80.4 | 308  | 695  | 727  | 696  | 846  | 588  | 561  | 233  | 86.2 | 54.2 | 52.9 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MAX  | 287  | 1336 | 2996 | 2970 | 2079 | 2759 | 2193 | 2997 | 804  | 478  | 213  | 342  |      |
| (WY) | 1971 | 1980 | 1983 | 1974 | 1991 | 1975 | 1983 | 1991 | 1978 | 1989 | 1992 | 1979 |      |
| MIN  | 3.22 | 10.6 | 34.3 | 28.1 | 123  | 150  | 41.5 | 20.4 | 5.92 | 6.96 | 2.94 | 4.04 |      |
| (WY) | 1988 | 1982 | 1982 | 1986 | 1978 | 1988 | 1986 | 1992 | 1988 | 1977 | 1988 | 1973 |      |

| SUMMARY STATISTICS       | FOR 1995 CALENDAR YEAR |        |  | FOR 1996 WATER YEAR |        |  | WATER YEARS 1971 - 1996 |        |      |
|--------------------------|------------------------|--------|--|---------------------|--------|--|-------------------------|--------|------|
| ANNUAL TOTAL             | 96177.6                |        |  | 97107.7             |        |  | 410                     |        |      |
| ANNUAL MEAN              | 264                    |        |  | 265                 |        |  | 903                     |        |      |
| HIGHEST ANNUAL MEAN      |                        |        |  |                     |        |  | 1983                    |        |      |
| LOWEST ANNUAL MEAN       |                        |        |  |                     |        |  | 97.4                    |        |      |
| HIGHEST DAILY MEAN       | 7030                   | Mar 7  |  | 5110                | Apr 23 |  | 26200                   | May 27 | 1991 |
| LOWEST DAILY MEAN        | 5.9                    | Jul 27 |  | 6.4                 | Sep 14 |  | .42                     | Aug 25 | 1988 |
| ANNUAL SEVEN-DAY MINIMUM | 7.7                    | Jul 22 |  | 9.2                 | Oct 19 |  | .80                     | Aug 21 | 1988 |
| INSTANTANEOUS PEAK FLOW  |                        |        |  | 7870                | Apr 23 |  | 37900                   | May 27 | 1991 |
| INSTANTANEOUS PEAK STAGE |                        |        |  | 21.39               | Apr 23 |  | 27.80                   | May 27 | 1991 |
| ANNUAL RUNOFF (CFSM)     | 1.13                   |        |  | 1.14                |        |  | 1.76                    |        |      |
| ANNUAL RUNOFF (INCHES)   | 15.36                  |        |  | 15.50               |        |  | 23.89                   |        |      |
| 10 PERCENT EXCEEDS       | 643                    |        |  | 667                 |        |  | 820                     |        |      |
| 50 PERCENT EXCEEDS       | 80                     |        |  | 92                  |        |  | 96                      |        |      |
| 90 PERCENT EXCEEDS       | 11                     |        |  | 15                  |        |  | 7.6                     |        |      |

e Estimated

02435020 TOWN CREEK AT EASON BOULEVARD AT TUPELO, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|-------|-------|------|------|------|------|------|
| 1    | 2.31 | 2.35 | 2.60 | 4.67 | 3.65 | 3.45  | 3.34  | 3.70 | 2.59 | 2.56 | 4.15 | ---  |
| 2    | 2.31 | 2.53 | 2.63 | 6.57 | 3.73 | 3.25  | ---   | 3.46 | 3.69 | 2.54 | 3.08 | ---  |
| 3    | 2.42 | 2.74 | 2.58 | 4.13 | ---  | 3.11  | ---   | 3.22 | 3.00 | 2.51 | 2.89 | ---  |
| 4    | 2.37 | 2.55 | 2.92 | 3.66 | ---  | 3.05  | ---   | 3.04 | 2.84 | 2.50 | 2.77 | ---  |
| 5    | 2.40 | 2.42 | 2.73 | 3.43 | ---  | 3.20  | ---   | 2.95 | 2.67 | 2.49 | 2.69 | ---  |
| 6    | 2.34 | 2.49 | 2.63 | 6.77 | ---  | 6.51  | ---   | 2.88 | 2.60 | 2.47 | ---  | ---  |
| 7    | 2.31 | 3.56 | 2.59 | 4.68 | ---  | 6.50  | ---   | 2.83 | 2.54 | 2.47 | ---  | 2.39 |
| 8    | 2.30 | 3.13 | 3.15 | 3.76 | 5.52 | 4.16  | ---   | 2.80 | 6.88 | 2.93 | ---  | 2.36 |
| 9    | 2.30 | 2.63 | 4.43 | 3.53 | 5.68 | 3.79  | ---   | 2.75 | 4.53 | 2.92 | 2.70 | 2.33 |
| 10   | 2.31 | 2.55 | 3.03 | 3.39 | 4.40 | 3.59  | ---   | 2.70 | 3.54 | 2.58 | ---  | 2.32 |
| 11   | 2.31 | 4.09 | 2.82 | 5.41 | 4.03 | 3.40  | ---   | 2.82 | 7.08 | 2.55 | ---  | 2.31 |
| 12   | 2.30 | 3.18 | 2.76 | 5.24 | 3.75 | 3.30  | ---   | 2.80 | 3.92 | 2.51 | 3.73 | 2.29 |
| 13   | 2.30 | 2.79 | 2.71 | 3.99 | 3.52 | 3.22  | ---   | 2.69 | 3.33 | 2.49 | 2.88 | 2.25 |
| 14   | 2.33 | 2.73 | 2.67 | 3.64 | 3.35 | 3.15  | ---   | 2.65 | 3.52 | 2.62 | 2.73 | 2.24 |
| 15   | 2.30 | 2.65 | 3.60 | 3.39 | 3.24 | 3.10  | ---   | 2.63 | 3.25 | 2.71 | ---  | 2.25 |
| 16   | 2.30 | 2.61 | 5.19 | 3.26 | ---  | 3.20  | ---   | 2.61 | 3.04 | 2.57 | ---  | 2.47 |
| 17   | 2.29 | 2.59 | 5.23 | 3.18 | ---  | 3.43  | ---   | 2.58 | 2.83 | 2.53 | ---  | 2.60 |
| 18   | 2.30 | 2.56 | 9.33 | 3.68 | ---  | 3.47  | ---   | 2.55 | 3.05 | 2.49 | ---  | 2.40 |
| 19   | 2.29 | 2.55 | 6.67 | 4.18 | ---  | 6.77  | ---   | 2.52 | 3.13 | 2.47 | ---  | 2.37 |
| 20   | 2.30 | 2.53 | 4.49 | 3.50 | 3.54 | 4.17  | ---   | 2.48 | 2.72 | 2.47 | ---  | 2.36 |
| 21   | 2.28 | 2.51 | 3.97 | 3.37 | 3.29 | 3.80  | 11.28 | 2.45 | 2.65 | 2.46 | ---  | 4.58 |
| 22   | 2.28 | 2.50 | 3.68 | 3.24 | ---  | 3.59  | 7.58  | 2.45 | 2.61 | 2.47 | ---  | 3.26 |
| 23   | 2.29 | 2.63 | 3.40 | 3.18 | ---  | 3.39  | 16.84 | 2.43 | 2.61 | 2.55 | ---  | 2.82 |
| 24   | 2.29 | 2.67 | 3.16 | 6.99 | 3.34 | 3.28  | 7.01  | 2.42 | 2.64 | 2.59 | ---  | 2.61 |
| 25   | 2.29 | 2.58 | 3.05 | 4.13 | ---  | 10.05 | 5.54  | 2.40 | 2.67 | 2.62 | ---  | 2.49 |
| 26   | 2.31 | 2.55 | 2.97 | 5.58 | ---  | 4.94  | 4.98  | 2.39 | 3.31 | 2.62 | ---  | 2.42 |
| 27   | 2.59 | 2.53 | 2.91 | 5.01 | ---  | 4.16  | 4.57  | 2.46 | 2.71 | 2.70 | ---  | 3.80 |
| 28   | 2.61 | 2.53 | 2.87 | 4.00 | 6.06 | 3.97  | 4.30  | 3.05 | 2.60 | 2.62 | 2.83 | 4.43 |
| 29   | 2.41 | 2.52 | 2.84 | 3.75 | 3.82 | 3.83  | 4.38  | 2.82 | 2.60 | 3.34 | ---  | 3.56 |
| 30   | 2.34 | 2.51 | 2.82 | 3.62 | ---  | 3.59  | 4.12  | 2.85 | 2.58 | 3.16 | ---  | 3.23 |
| 31   | 2.33 | ---  | 4.37 | 4.10 | ---  | 3.45  | ---   | 2.63 | ---  | 3.79 | 2.78 | ---  |
| MEAN | 2.34 | 2.69 | 3.57 | 4.23 | ---  | 4.06  | ---   | 2.74 | 3.26 | 2.65 | ---  | ---  |
| MAX  | 2.61 | 4.09 | 9.33 | 6.99 | ---  | 10.05 | ---   | 3.70 | 7.08 | 3.79 | ---  | ---  |
| MIN  | 2.28 | 2.35 | 2.58 | 3.18 | ---  | 3.05  | ---   | 2.39 | 2.54 | 2.46 | ---  | ---  |



## MOBILE RIVER BASIN

02436500 TOWN CREEK NEAR NETTLETON, MS

LOCATION.--Lat 34°03'32", long 88°37'40", in NW1/4 sec.12, T.12 S., R.6 E., Chickasaw Meridian, Monroe County, Hydrologic Unit 03160102, on right bank at downstream side of 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.

DRAINAGE AREA.--620 mi<sup>2</sup>

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.

REVISED RECORDS.--WSP 1504: 1948. WDR MS-80-1: Drainage area.

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.

REMARKS.--Estimated daily discharges: Oct. 24 - Nov. 13, Apr. 14-16, Jun. 6 - Jul. 3. Records good except for estimated daily discharges, which are poor. Satellite telemeter at station.

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.

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) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Dec. 18 | 1845 | 16,100                            | 23.42               | Apr. 21 | 1515 | 16,400                            | 24.00               |
| Mar. 25 | 0645 | 17,900                            | 23.90               | Apr. 23 | 0815 | *27,100                           | *25.79              |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT  | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN   | JUL   | AUG  | SEP  |
|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|------|
| 1     | 28   | e240  | 103   | 2350  | 1080  | 1000  | 604   | 870  | 130   | e84   | 1250 | 81   |
| 2     | 28   | e430  | 114   | 6770  | 2320  | 769   | 509   | 689  | 718   | e75   | 382  | 114  |
| 3     | 60   | e200  | 105   | 1880  | 1130  | 628   | 452   | 551  | 425   | e66   | 272  | 125  |
| 4     | 59   | e275  | 282   | 1050  | 828   | 547   | 412   | 432  | 230   | 58    | 179  | 132  |
| 5     | 69   | e410  | 202   | 797   | 1030  | 730   | 370   | 377  | 178   | 49    | 123  | 72   |
| 6     | 47   | e670  | 137   | 6440  | 839   | 4640  | 352   | 337  | e165  | 41    | 98   | 56   |
| 7     | 37   | e1000 | 114   | 3080  | 1730  | 5120  | 332   | 306  | e500  | 38    | 178  | 51   |
| 8     | 33   | e750  | 2220  | 1410  | 3240  | 1750  | 311   | 279  | e1580 | 3130  | 90   | 48   |
| 9     | 32   | e600  | 3580  | 1050  | 3050  | 1130  | 295   | 252  | e1000 | 988   | 339  | 43   |
| 10    | 32   | e1120 | 713   | 920   | 1840  | 918   | 299   | 227  | e1440 | 335   | 95   | 44   |
| 11    | 31   | e1480 | 400   | 3010  | 1340  | 764   | 299   | 288  | e2180 | 166   | 67   | 42   |
| 12    | 31   | e950  | 332   | 3500  | 1010  | 684   | 275   | 339  | e2830 | 115   | 987  | 38   |
| 13    | 31   | e300  | 286   | 1600  | 814   | 620   | 267   | 243  | e1900 | 91    | 348  | 35   |
| 14    | 33   | 223   | 251   | 1150  | 698   | 579   | e280  | 216  | e820  | 492   | 155  | 33   |
| 15    | 33   | 179   | 235   | 908   | 617   | 533   | e365  | 197  | e500  | 1130  | 104  | 31   |
| 16    | 31   | 151   | 4240  | 780   | 539   | 514   | e390  | 180  | e390  | 264   | 82   | 534  |
| 17    | 31   | 135   | 2470  | 709   | 478   | 606   | 292   | 168  | e250  | 180   | 70   | 262  |
| 18    | 30   | 122   | 8050  | 1210  | 446   | 1070  | 258   | 150  | e300  | 93    | 62   | 100  |
| 19    | 30   | 113   | 6740  | 2030  | 620   | 4710  | 271   | 139  | e320  | 72    | 95   | 64   |
| 20    | 30   | 106   | 2110  | 995   | 1060  | 1610  | 1390  | 131  | e260  | 60    | 96   | 52   |
| 21    | 29   | 100   | 1300  | 855   | 684   | 1050  | 11200 | 126  | e240  | 55    | 91   | 2610 |
| 22    | 29   | 93    | 911   | 750   | 566   | 837   | 6560  | 120  | e220  | 46    | 88   | 962  |
| 23    | 30   | 239   | 703   | 667   | 514   | 689   | 22100 | 113  | e300  | 83    | 90   | 319  |
| 24    | e30  | 296   | 549   | 5360  | 531   | 596   | 7050  | 105  | e230  | 864   | 70   | 192  |
| 25    | e29  | 162   | 470   | 1960  | 481   | 9230  | 3680  | 102  | e350  | 761   | 40   | 136  |
| 26    | e28  | 128   | 413   | 3900  | 460   | 2910  | 2740  | 97   | e210  | 276   | 38   | 105  |
| 27    | e480 | 116   | 374   | 3310  | 389   | 1740  | 1970  | 96   | e160  | 140   | 46   | 714  |
| 28    | e200 | 110   | 333   | 1600  | 5370  | 1410  | 1420  | 400  | e125  | 289   | 241  | 1170 |
| 29    | e350 | 116   | 301   | 1250  | 1750  | 1180  | 1190  | 243  | e110  | 137   | 107  | 587  |
| 30    | e160 | 105   | 314   | 1210  | ---   | 875   | 1390  | 215  | e95   | 533   | 66   | 329  |
| 31    | e85  | ---   | 1270  | 1530  | ---   | 734   | ---   | 156  | ---   | 974   | 118  | ---  |
| TOTAL | 2186 | 10919 | 39622 | 64031 | 35454 | 50173 | 67323 | 8144 | 18156 | 11685 | 6067 | 9081 |
| MEAN  | 70.5 | 364   | 1278  | 2066  | 1223  | 1618  | 2244  | 263  | 605   | 377   | 196  | 303  |
| MAX   | 480  | 1480  | 8050  | 6770  | 5370  | 9230  | 22100 | 870  | 2830  | 3130  | 1250 | 2610 |
| MIN   | 28   | 93    | 103   | 667   | 389   | 514   | 258   | 96   | 95    | 38    | 38   | 31   |
| CFSM  | .11  | .59   | 2.06  | 3.33  | 1.97  | 2.61  | 3.62  | .42  | .98   | .61   | .32  | .49  |
| IN.   | .13  | .66   | 2.38  | 3.84  | 2.13  | 3.01  | 4.04  | .49  | 1.09  | .70   | .36  | .59  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1996, BY WATER YEAR (WY)

|      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 149  | 722  | 1398 | 1669 | 1975 | 2164 | 1565 | 1016 | 446  | 372  | 173  | 210  |
| MAX  | 1043 | 6074 | 8062 | 6105 | 5740 | 6215 | 5434 | 8377 | 2267 | 2512 | 1381 | 2208 |
| (WY) | 1976 | 1958 | 1983 | 1949 | 1948 | 1975 | 1991 | 1991 | 1989 | 1940 | 1967 | 1958 |
| MIN  | 3.97 | 14.7 | 40.3 | 66.6 | 323  | 240  | 105  | 63.6 | 19.0 | 22.4 | 7.12 | 5.39 |
| (WY) | 1944 | 1954 | 1966 | 1966 | 1978 | 1954 | 1986 | 1943 | 1988 | 1942 | 1954 | 1954 |

| SUMMARY STATISTICS | FOR 1995 CALENDAR YEAR | FOR 1996 WATER YEAR | WATER YEARS 1940 - 1996 |
|--------------------|------------------------|---------------------|-------------------------|
|--------------------|------------------------|---------------------|-------------------------|

|                          |        |        |  |        |        |        |             |
|--------------------------|--------|--------|--|--------|--------|--------|-------------|
| ANNUAL TOTAL             | 342369 |        |  | 322841 |        |        |             |
| ANNUAL MEAN              | 938    |        |  | 882    |        | 984    |             |
| HIGHEST ANNUAL MEAN      |        |        |  |        |        | 2342   | 1991        |
| LOWEST ANNUAL MEAN       |        |        |  |        |        | 306    | 1954        |
| HIGHEST DAILY MEAN       | 23100  | Mar 8  |  | 22100  | Apr 23 | 95300  | Mar 22 1955 |
| LOWEST DAILY MEAN        | 28     | Oct 1  |  | 28     | Oct 1  | 1.0    | Sep 14 1942 |
| ANNUAL SEVEN-DAY MINIMUM | 29     | Oct 20 |  | 29     | Oct 20 | 1.6    | Oct 8 1942  |
| INSTANTANEOUS PEAK FLOW  |        |        |  | 27100  | Apr 23 | 151000 | Mar 22 1955 |
| INSTANTANEOUS PEAK STAGE |        |        |  | 25.79  | Apr 23 | 33.88  | Mar 22 1955 |
| ANNUAL RUNOFF (CFSM)     | 1.51   |        |  | 1.42   |        | 1.59   |             |
| ANNUAL RUNOFF (INCHES)   | 20.54  |        |  | 19.37  |        | 21.56  |             |
| 10 PERCENT EXCEEDS       | 2130   |        |  | 1990   |        | 2130   |             |
| 50 PERCENT EXCEEDS       | 270    |        |  | 324    |        | 199    |             |
| 90 PERCENT EXCEEDS       | 33     |        |  | 48     |        | 20     |             |

e Estimated

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

LOCATION.--Lat. 33°49'47", long 88°31'17" in 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY  | OCT  | NOV  | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1    | 700  | 836  | 1390  | 7650  | 5780  | 5430  | 4370  | 3910 | 850  | 482  | 4000 | 1240 |
| 2    | 519  | 1790 | 822   | 15800 | 8480  | 4550  | 3950  | 3820 | 1420 | 552  | 2500 | 2270 |
| 3    | 2370 | 2070 | 1570  | 9620  | 5950  | 3410  | 3870  | 2860 | 1890 | 531  | 2190 | 322  |
| 4    | 1130 | 1060 | 1600  | 7160  | 4610  | 3040  | 4140  | 2540 | 1830 | 442  | 1230 | 1870 |
| 5    | 779  | 1210 | 1630  | 6570  | 3020  | 3440  | 3420  | 2840 | 1190 | 391  | 1420 | 492  |
| 6    | 638  | 1480 | 1420  | 13000 | 3680  | 10900 | 3240  | 1820 | 1530 | 727  | 869  | 686  |
| 7    | 582  | 2650 | 1120  | 14800 | 4830  | 14900 | 2450  | 2330 | 1170 | 580  | 1300 | 576  |
| 8    | 629  | 3360 | 3380  | 9020  | 8600  | 10500 | 2290  | 1810 | 5670 | 7610 | 1410 | 706  |
| 9    | 554  | 2620 | 12300 | 7290  | 9360  | 10700 | 1930  | 1690 | 5490 | 3420 | 2770 | 723  |
| 10   | 454  | 1520 | 4570  | 6070  | 6550  | 9350  | 2220  | 1820 | 3320 | 1580 | 1100 | 835  |
| 11   | 714  | 6060 | 2900  | 7450  | 6020  | 6840  | 1860  | 1740 | 5870 | 532  | 1910 | 450  |
| 12   | 514  | 4070 | 2530  | 12400 | 4990  | 5210  | 2360  | 1820 | 7910 | 941  | 4400 | 871  |
| 13   | 1020 | 3500 | 1990  | 7240  | 4500  | 4130  | 2380  | 1570 | 6310 | 1450 | 3200 | 405  |
| 14   | 690  | 2570 | 2110  | 6740  | 4200  | 4240  | 2310  | 1380 | 4930 | 1270 | 2190 | 543  |
| 15   | 343  | 1800 | 1470  | 5750  | 3630  | 3250  | 4320  | 1180 | 3190 | 2730 | 1510 | 528  |
| 16   | 757  | 1500 | 8160  | 3880  | 3590  | 3340  | 2810  | 1160 | 1750 | 1040 | 1150 | 3430 |
| 17   | 690  | 1360 | 6770  | 3850  | 2980  | 3620  | 2150  | 1450 | 2120 | 1120 | 1080 | 2800 |
| 18   | 890  | 1170 | 13700 | 3470  | 3020  | 3590  | 2090  | 991  | 1340 | 1170 | 1120 | 729  |
| 19   | 1120 | 1360 | 22900 | 5920  | 4520  | 12200 | 2480  | 1060 | 1850 | 388  | 595  | 1040 |
| 20   | 1570 | 1150 | 11700 | 5010  | 5720  | 7580  | 3740  | 1560 | 1410 | 994  | 733  | 722  |
| 21   | 404  | 1000 | 9380  | 3670  | 4440  | 6560  | 19100 | 729  | 1120 | 858  | 321  | 6450 |
| 22   | 641  | 996  | 8730  | 3610  | 3780  | 5630  | 24200 | 1420 | 786  | 448  | 748  | 5640 |
| 23   | 490  | 2050 | 6570  | 3380  | 3640  | 4970  | 29900 | 574  | 773  | 1430 | 706  | 2510 |
| 24   | 720  | 2320 | 4260  | 11900 | 3340  | 3500  | 32100 | 1560 | 1460 | 866  | 808  | 1780 |
| 25   | 417  | 1740 | 3570  | 7710  | 3050  | 16200 | 23100 | 524  | 913  | 2820 | 746  | 1430 |
| 26   | 302  | 1640 | 2310  | 9650  | 2730  | 14600 | 17300 | 388  | 2380 | 1540 | 674  | 1180 |
| 27   | 1850 | 1820 | 3300  | 13400 | 2420  | 8320  | 11100 | 1060 | 532  | 1560 | 544  | 1820 |
| 28   | 1660 | 1280 | 1770  | 8610  | 12000 | 9590  | 8120  | 2830 | 966  | 1470 | 1210 | 3440 |
| 29   | 941  | 1020 | 2090  | 7770  | 7870  | 7710  | 6300  | 1690 | 535  | 1480 | 700  | 3010 |
| 30   | 1220 | 794  | 1180  | 6950  | ---   | 6930  | 5390  | 1720 | 441  | 2010 | 1000 | 2300 |
| 31   | 964  | ---  | 2580  | 6680  | ---   | 5170  | ---   | 1810 | ---  | 2790 | 1220 | ---  |
| MEAN | 847  | 1927 | 4831  | 7807  | 5079  | 7077  | 7833  | 1731 | 2365 | 1459 | 1463 | 1693 |
| MAX  | 2370 | 6060 | 22900 | 15800 | 12000 | 16200 | 32100 | 3910 | 7910 | 7610 | 4400 | 6450 |
| MIN  | 302  | 794  | 822   | 3380  | 2420  | 3040  | 1860  | 388  | 441  | 388  | 321  | 322  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1996, BY WATER YEAR (WY)

|      | 1984 | 1985 | 1986  | 1987  | 1988  | 1989  | 1990  | 1991  | 1992  | 1993  | 1994 | 1995 | 1996 |
|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| MEAN | 1314 | 2798 | 5761  | 5363  | 7946  | 6702  | 4963  | 5009  | 2971  | 2017  | 1134 | 949  |      |
| MAX  | 2305 | 8154 | 15520 | 12060 | 17570 | 11750 | 16630 | 29390 | 10540 | 10680 | 2272 | 1693 |      |
| (WY) | 1995 | 1987 | 1991  | 1989  | 1991  | 1995  | 1991  | 1991  | 1989  | 1989  | 1993 | 1996 |      |
| MIN  | 474  | 958  | 1816  | 978   | 2822  | 2571  | 929   | 853   | 479   | 411   | 349  | 220  |      |
| (WY) | 1988 | 1991 | 1985  | 1986  | 1986  | 1985  | 1986  | 1988  | 1988  | 1984  | 1984 | 1984 |      |

| SUMMARY STATISTICS       | FOR 1995 CALENDAR YEAR | FOR 1996 WATER YEAR | WATER YEARS 1984 - 1996 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL MEAN              | 3887                   | 3671                | 3928                    |
| HIGHEST ANNUAL MEAN      |                        |                     | 8424                    |
| LOWEST ANNUAL MEAN       |                        |                     | 1781                    |
| HIGHEST DAILY MEAN       | 63900                  | Mar 8               | 103000                  |
| LOWEST DAILY MEAN        | 200                    | Sep 7               | 77                      |
| ANNUAL SEVEN-DAY MINIMUM | 328                    | Sep 5               | 482                     |
| INSTANTANEOUS PEAK FLOW  |                        |                     | 40400                   |
| INSTANTANEOUS PEAK STAGE |                        |                     | 24.74                   |
| 10 PERCENT EXCEEDS       | 8160                   | 8370                | 8820                    |
| 50 PERCENT EXCEEDS       | 2000                   | 2110                | 1780                    |
| 90 PERCENT EXCEEDS       | 509                    | 635                 | 470                     |

## 02439400 BUTTAHATCHEE RIVER NEAR ABERDEEN, MS

LOCATION.--Lat 33°47'24", long 88°18'53", in NW1/4 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, 10.0 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.--Records good. 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) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Dec. 21 | 1500 | 9,790                             | 15.72               | Jan. 29 | 0900 | 9,140                             | 15.49               |
| Jan. 9  | 1100 | 8,490                             | 15.25               | Apr. 24 | 0200 | *10,200                           | *15.85              |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN    | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1     | 201   | 387   | 1270  | 1020   | 3450  | 1770  | 1860  | 1620  | 505   | 189   | 1270  | 547   |
| 2     | 194   | 432   | 997   | 1630   | 3520  | 1420  | 1640  | 1500  | 448   | 179   | 1420  | 439   |
| 3     | 217   | 641   | 850   | 2360   | 3570  | 1240  | 1420  | 1250  | 490   | 174   | 897   | 384   |
| 4     | 312   | 811   | 909   | 3120   | 3480  | 1130  | 1270  | 1100  | 658   | 190   | 675   | 395   |
| 5     | 651   | 708   | 1040  | 3620   | 3070  | 1040  | 1190  | 995   | 540   | 178   | 544   | 392   |
| 6     | 842   | 549   | 1220  | 2880   | 2230  | 1160  | 1120  | 912   | 437   | 159   | 453   | 346   |
| 7     | 864   | 662   | 1000  | 3100   | 1930  | 1870  | 1060  | 846   | 395   | 150   | 410   | 296   |
| 8     | 555   | 1300  | 900   | 4580   | 1960  | 2700  | 1010  | 794   | 408   | 249   | 386   | 267   |
| 9     | 381   | 1710  | 1660  | 7940   | 2230  | 3760  | 957   | 759   | 473   | 892   | 356   | 264   |
| 10    | 315   | 1390  | 2440  | 5550   | 2500  | 3900  | 911   | 717   | 632   | 1210  | 666   | 250   |
| 11    | 284   | 1140  | 3130  | 3450   | 2500  | 2410  | 863   | 665   | 546   | 717   | 595   | 236   |
| 12    | 266   | 1700  | 3440  | 2770   | 2150  | 1690  | 829   | 615   | 768   | 400   | 499   | 239   |
| 13    | 255   | 2210  | 2070  | 3040   | 1780  | 1460  | 838   | 590   | 1400  | 297   | 645   | 247   |
| 14    | 263   | 2000  | 1360  | 3630   | 1540  | 1340  | 877   | 563   | 1410  | 265   | 633   | 219   |
| 15    | 274   | 1320  | 1160  | 3390   | 1430  | 1240  | 971   | 538   | 973   | 270   | 444   | 203   |
| 16    | 312   | 1070  | 1330  | 2370   | 1350  | 1180  | 1290  | 516   | 720   | 325   | 353   | 599   |
| 17    | 295   | 909   | 1850  | 1820   | 1240  | 1120  | 1270  | 491   | 553   | 353   | 306   | 1500  |
| 18    | 262   | 811   | 2440  | 1690   | 1160  | 1080  | 1010  | 468   | 448   | 296   | 282   | 2010  |
| 19    | 245   | 744   | 3240  | 1840   | 1140  | 1490  | 900   | 442   | 385   | 306   | 263   | 1510  |
| 20    | 238   | 695   | 4540  | 2280   | 1320  | 2140  | 896   | 417   | 344   | 251   | 246   | 790   |
| 21    | 239   | 654   | 8630  | 2540   | 1630  | 2440  | 1650  | 393   | 319   | 217   | 232   | 728   |
| 22    | 244   | 607   | 7110  | 2170   | 1510  | 1850  | 3190  | 374   | 341   | 196   | 219   | 1300  |
| 23    | 244   | 592   | 3980  | 1790   | 1310  | 1440  | 7160  | 358   | 304   | 199   | 207   | 1710  |
| 24    | 234   | 679   | 2280  | 1780   | 1200  | 1270  | 9180  | 344   | 264   | 307   | 200   | 1070  |
| 25    | 231   | 894   | 1600  | 2180   | 1110  | 1610  | 6430  | 322   | 299   | 504   | 195   | 737   |
| 26    | 232   | 799   | 1360  | 3040   | 1030  | 2440  | 4530  | 307   | 285   | 461   | 204   | 594   |
| 27    | 259   | 698   | 1220  | 4080   | 992   | 3280  | 2910  | 294   | 280   | 408   | 271   | 507   |
| 28    | 412   | 729   | 1110  | 5610   | 1020  | 3700  | 2080  | 310   | 255   | 641   | 256   | 988   |
| 29    | 901   | 960   | 1020  | 8650   | 1470  | 2930  | 1620  | 959   | 219   | 1330  | 293   | 1490  |
| 30    | 704   | 1230  | 944   | 6200   | ---   | 2600  | 1490  | 1040  | 202   | 1520  | 334   | 1040  |
| 31    | 466   | ---   | 916   | 4310   | ---   | 2210  | ---   | 653   | ---   | 916   | 371   | ---   |
| TOTAL | 11392 | 29031 | 67016 | 104430 | 54822 | 60910 | 62422 | 21152 | 15301 | 13749 | 14125 | 21297 |
| MEAN  | 367   | 968   | 2162  | 3369   | 1890  | 1965  | 2081  | 682   | 510   | 444   | 456   | 710   |
| MAX   | 901   | 2210  | 8630  | 8650   | 3570  | 3900  | 9180  | 1620  | 1410  | 1520  | 1420  | 2010  |
| MIN   | 194   | 387   | 850   | 1020   | 992   | 1040  | 829   | 294   | 202   | 150   | 195   | 203   |
| CFSM  | .46   | 1.21  | 2.71  | 4.22   | 2.37  | 2.46  | 2.61  | .86   | .64   | .56   | .57   | .89   |
| IN.   | .53   | 1.35  | 3.12  | 4.87   | 2.56  | 2.84  | 2.91  | .99   | .71   | .64   | .66   | .99   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1996, BY WATER YEAR (WY)

|      | MEAN | 533  | 1003 | 1968 | 2377 | 2372 | 2832 | 2371 | 1765 | 741  | 551  | 393  | 385 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| MAX  | 2349 | 2938 | 5698 | 4954 | 5459 | 6815 | 6130 | 8329 | 1880 | 1880 | 1175 | 1051 |     |
| (WY) | 1976 | 1978 | 1968 | 1974 | 1991 | 1980 | 1991 | 1991 | 1974 | 1994 | 1975 | 1979 |     |
| MIN  | 134  | 275  | 464  | 519  | 904  | 703  | 461  | 315  | 136  | 164  | 117  | 156  |     |
| (WY) | 1988 | 1988 | 1988 | 1986 | 1968 | 1988 | 1986 | 1992 | 1988 | 1988 | 1988 | 1984 |     |

| SUMMARY STATISTICS       | FOR 1995 CALENDAR YEAR | FOR 1996 WATER YEAR | WATER YEARS 1966 - 1996 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 552130                 | 475647              |                         |
| ANNUAL MEAN              | 1513                   | 1300                | 1437                    |
| HIGHEST ANNUAL MEAN      |                        |                     | 2747                    |
| LOWEST ANNUAL MEAN       |                        |                     | 503                     |
| HIGHEST DAILY MEAN       | 17000                  | Apr 23              | 63900                   |
| LOWEST DAILY MEAN        | 148                    | Sep 14              | 90                      |
| ANNUAL SEVEN-DAY MINIMUM | 151                    | Sep 10              | 99                      |
| INSTANTANEOUS PEAK FLOW  |                        |                     | 80000                   |
| INSTANTANEOUS PEAK STAGE |                        |                     | 23.48                   |
| INSTANTANEOUS LOW FLOW   |                        |                     | 89                      |
| ANNUAL RUNOFF (CFSM)     | 1.90                   | 1.63                | 1.80                    |
| ANNUAL RUNOFF (INCHES)   | 25.74                  | 22.17               | 24.48                   |
| 10 PERCENT EXCEEDS       | 3090                   | 3040                | 3070                    |
| 50 PERCENT EXCEEDS       | 908                    | 900                 | 755                     |
| 90 PERCENT EXCEEDS       | 239                    | 250                 | 230                     |

02439400 BUTTAHATCHEE RIVER NEAR ABERDEEN, MS--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974-75, 1989 to current year.

SUSPENDED SEDIMENT DISCHARGE, 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>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... | 1545 | 1680                                                                  | 32                                                                      | 145                                                                      |
| FEB<br>27... | 1000 | 993                                                                   | 25                                                                      | 67                                                                       |
| APR<br>09... | 1130 | 958                                                                   | 25                                                                      | 65                                                                       |



## 02441390 TOMBIGBEE RIVER AT COLUMBUS LOCK AND DAM, NEAR COLUMBUS, MS

LOCATION.--Lat 33°31'05", long 88°29'19", 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.

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 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT   | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 1     | 1230  | 1760   | 2900   | 8930   | 13900  | 8090   | 8320   | 5970  | 1340  | 702   | 7810  | 1780  |
| 2     | 919   | 2570   | 2680   | 23600  | 21900  | 7150   | 6230   | 6270  | 2600  | 633   | 5620  | 3560  |
| 3     | 4130  | 3160   | 2420   | 14200  | 16100  | 5020   | 6120   | 4340  | 2470  | 945   | 5920  | 1130  |
| 4     | 2140  | 2380   | 3030   | 12900  | 12500  | 4880   | 5880   | 3980  | 2490  | 349   | 4760  | 3440  |
| 5     | 1320  | 2020   | 3210   | 13600  | 9930   | 4290   | 4490   | 3930  | 1790  | 663   | 2470  | 1650  |
| 6     | 1300  | 2160   | 2770   | 26500  | 7990   | 16200  | 4320   | 3350  | 2170  | 787   | 1650  | 1240  |
| 7     | 1120  | 4480   | 2610   | 24600  | 8400   | 22400  | 3690   | 3420  | 1910  | 1040  | 2480  | 1080  |
| 8     | 1700  | 5740   | 3780   | 16800  | 14900  | 15700  | 4070   | 3440  | 4500  | 8380  | 2320  | 1330  |
| 9     | 1100  | 4130   | 21400  | 17400  | 15400  | 14600  | 2900   | 2510  | 6530  | 5760  | 4560  | 934   |
| 10    | 1120  | 3300   | 10500  | 15300  | 13400  | 13100  | 3250   | 2890  | 4000  | 3740  | 2600  | 1600  |
| 11    | 1190  | 10800  | 8910   | 16500  | 11800  | 10900  | 3060   | 2590  | 4770  | 1940  | 2910  | 772   |
| 12    | 918   | 7980   | 9770   | 21500  | 9580   | 8060   | 3500   | 2370  | 8510  | 1700  | 5990  | 1170  |
| 13    | 1480  | 6050   | 5550   | 13700  | 7410   | 5780   | 3560   | 2750  | 7010  | 1840  | 4710  | 865   |
| 14    | 1430  | 5060   | 4440   | 13800  | 6920   | 5750   | 3490   | 2040  | 8000  | 2270  | 3250  | 662   |
| 15    | 800   | 3910   | 3720   | 10900  | 5740   | 4950   | 7120   | 2070  | 5900  | 4570  | 2180  | 786   |
| 16    | 1230  | 3050   | 15300  | 8000   | 5250   | 4780   | 5410   | 1910  | 3780  | 3490  | 1760  | 7620  |
| 17    | 845   | 2930   | 12000  | 7020   | 4770   | 4530   | 5720   | 2500  | 2860  | 3930  | 1410  | 6890  |
| 18    | 1290  | 2510   | 33800  | 7300   | 4010   | 5670   | 3780   | 1620  | 2360  | 1840  | 1330  | 4870  |
| 19    | 1190  | 2510   | 44600  | 10700  | 5680   | 20400  | 4210   | 1780  | 2610  | 1010  | 1060  | 3780  |
| 20    | 941   | 2200   | 23600  | 9150   | 11000  | 14300  | 5340   | 2180  | 2210  | 1840  | 1350  | 2480  |
| 21    | 972   | 1680   | 21300  | 7760   | 7740   | 13900  | 41300  | 1070  | 1540  | 1200  | 597   | 6580  |
| 22    | 895   | 1690   | 22600  | 7070   | 6350   | 10200  | 53100  | 2310  | 1290  | 649   | 744   | 8480  |
| 23    | 1050  | 2680   | 15000  | 5740   | 5450   | 7210   | 55100  | 873   | 1460  | 2010  | 1040  | 4720  |
| 24    | 1250  | 3460   | 8370   | 17300  | 4570   | 5610   | 61800  | 2320  | 1660  | 2330  | 1080  | 3850  |
| 25    | 741   | 2600   | 6140   | 13700  | 4130   | 26000  | 49800  | 754   | 1090  | 5560  | 994   | 2890  |
| 26    | 572   | 2880   | 3660   | 19100  | 3920   | 29300  | 37700  | 1130  | 2110  | 3350  | 913   | 1930  |
| 27    | 2600  | 2440   | 4570   | 35600  | 4080   | 18900  | 23200  | 1780  | 754   | 2950  | 910   | 2340  |
| 28    | 2210  | 3900   | 3600   | 21900  | 12400  | 20700  | 12800  | 3640  | 1560  | 4380  | 1940  | 3930  |
| 29    | 1850  | 3820   | 3160   | 20200  | 11000  | 17400  | 9100   | 1760  | 702   | 4690  | 1450  | 3950  |
| 30    | 2010  | 2790   | 2650   | 20500  | ---    | 11700  | 7830   | 2560  | 752   | 5940  | 2300  | 3720  |
| 31    | 1850  | ---    | 4640   | 16900  | ---    | 10500  | ---    | 2860  | ---   | 4780  | 2590  | ---   |
| TOTAL | 43393 | 106640 | 312680 | 478170 | 266220 | 367970 | 446190 | 82967 | 90728 | 85268 | 80698 | 90029 |
| MEAN  | 1400  | 3555   | 10090  | 15420  | 9180   | 11870  | 14870  | 2676  | 3024  | 2751  | 2603  | 3001  |
| MAX   | 4130  | 10800  | 44600  | 35600  | 21900  | 29300  | 61800  | 6270  | 8510  | 8380  | 7810  | 8480  |
| MIN   | 572   | 1680   | 2420   | 5740   | 3920   | 4290   | 2900   | 754   | 702   | 349   | 597   | 662   |
| CFSM  | .32   | .80    | 2.27   | 3.47   | 2.07   | 2.67   | 3.35   | .60   | .68   | .62   | .59   | .68   |
| IN.   | .36   | .89    | 2.62   | 4.01   | 2.23   | 3.08   | 3.74   | .70   | .76   | .71   | .68   | .75   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1996, BY WATER YEAR (WY)

|      | MEAN | 2138  | 4394  | 12690 | 11450 | 15220 | 12810 | 12480 | 10750 | 4642  | 3090 | 1751 | 1447 |
|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| MAX  | 5896 | 12940 | 36640 | 26290 | 33900 | 22820 | 37260 | 56740 | 14950 | 12310 | 3239 | 3001 |      |
| (WY) | 1985 | 1987  | 1983  | 1989  | 1991  | 1995  | 1983  | 1991  | 1989  | 1994  | 1995 | 1996 |      |
| MIN  | 585  | 483   | 1627  | 1799  | 4961  | 4308  | 1613  | 1284  | 626   | 1013  | 622  | 305  |      |
| (WY) | 1988 | 1982  | 1982  | 1986  | 1986  | 1985  | 1986  | 1992  | 1988  | 1984  | 1987 | 1984 |      |

## SUMMARY STATISTICS

## FOR 1995 CALENDAR YEAR

## FOR 1996 WATER YEAR

## WATER YEARS 1982 - 1996

|                          |         |         |             |
|--------------------------|---------|---------|-------------|
| ANNUAL TOTAL             | 2854569 | 2450953 | 7705        |
| ANNUAL MEAN              | 7821    | 6697    | 15970       |
| HIGHEST ANNUAL MEAN      |         |         | 2742        |
| LOWEST ANNUAL MEAN       |         |         | 166000      |
| HIGHEST DAILY MEAN       | 89100   | Mar 9   | May 29 1991 |
| LOWEST DAILY MEAN        | 340     | Sep 6   | Sep 25 1984 |
| ANNUAL SEVEN-DAY MINIMUM | 522     | Sep 5   | Oct 20 1981 |
| INSTANTANEOUS PEAK FLOW  |         | 66600   | Mar 19 1973 |
| INSTANTANEOUS PEAK STAGE |         | 53.81   | Apr 24      |
| ANNUAL RUNOFF (CFSM)     | 1.76    | 1.51    | 42.22       |
| ANNUAL RUNOFF (INCHES)   | 23.92   | 20.54   | 1.74        |
| 10 PERCENT EXCEEDS       | 17700   | 16100   | 23.58       |
| 50 PERCENT EXCEEDS       | 3320    | 3780    | 18300       |
| 90 PERCENT EXCEEDS       | 879     | 1070    | 3060        |
|                          |         |         | 693         |

## 02441500 TOMBIGBEE RIVER AT COLUMBUS, MS

LOCATION.--Lat 33°29'21", long 88°25'57", in NE1/4 sec.20, 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 Columbus 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.

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, 23.15 ft, Apr. 24, minimum daily, 7.35 ft, Aug. 22.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY  | OCT  | NOV  | DEC   | JAN   | FEB   | MAR | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|-------|-------|-------|-----|-------|------|------|------|------|------|
| 1    | 7.77 | 7.83 | 8.01  | 8.65  | 10.34 | --- | ---   | 8.23 | 7.77 | 7.74 | 8.73 | 7.69 |
| 2    | 7.74 | 7.90 | 7.97  | 11.33 | 12.52 | --- | ---   | 8.39 | 7.83 | 7.69 | 8.15 | 7.83 |
| 3    | 7.96 | 7.85 | 7.85  | 11.07 | 11.86 | --- | ---   | 8.08 | 7.76 | 7.72 | 8.18 | 7.66 |
| 4    | 7.58 | 7.87 | 7.95  | 9.84  | 10.41 | --- | ---   | 7.98 | 7.78 | 7.59 | 7.97 | 7.84 |
| 5    | 7.60 | 7.85 | 7.90  | 9.89  | 9.59  | --- | ---   | 8.01 | 7.75 | 7.61 | 7.75 | 7.75 |
| 6    | 7.65 | 7.88 | 7.82  | 11.29 | 8.94  | --- | ---   | 7.90 | 7.74 | 7.64 | 7.75 | 7.71 |
| 7    | 7.61 | 8.09 | 7.79  | 14.15 | 8.91  | --- | ---   | 7.91 | 7.83 | 7.74 | 7.82 | 7.68 |
| 8    | 7.64 | 8.33 | 8.12  | 11.22 | 10.31 | --- | ---   | 7.94 | 8.02 | 8.57 | 7.77 | 7.72 |
| 9    | 7.56 | 8.14 | 11.55 | 11.20 | 10.45 | --- | ---   | 7.87 | 8.40 | 8.16 | 8.07 | 7.66 |
| 10   | 7.55 | 8.10 | 9.31  | 10.84 | 9.98  | --- | 7.94  | 7.89 | 7.99 | 8.00 | 7.77 | 7.70 |
| 11   | 7.78 | 9.21 | 9.02  | 10.20 | 9.51  | --- | 7.99  | 7.78 | 8.07 | 7.81 | 7.79 | 7.63 |
| 12   | 7.64 | 8.95 | 9.12  | 12.60 | 8.93  | --- | 7.97  | ---  | 8.68 | 7.71 | 8.07 | 7.67 |
| 13   | 7.59 | 8.46 | 8.36  | 10.60 | 8.56  | --- | 7.97  | ---  | 8.26 | 7.79 | 8.01 | 7.58 |
| 14   | 7.64 | 8.22 | 8.15  | 10.30 | 8.43  | --- | 7.97  | ---  | 8.54 | 7.76 | 7.80 | 7.61 |
| 15   | 7.54 | 8.07 | 8.03  | 9.69  | 8.26  | --- | 8.46  | ---  | 8.19 | 8.06 | 7.71 | 7.63 |
| 16   | 7.73 | 7.97 | 9.67  | 8.82  | 8.04  | --- | 8.21  | ---  | 7.96 | 7.86 | 7.72 | 8.58 |
| 17   | 7.56 | 7.88 | 9.49  | 8.73  | 8.10  | --- | 8.29  | ---  | 7.83 | 7.90 | 7.66 | 8.17 |
| 18   | 7.76 | 7.89 | 13.11 | 8.74  | 7.98  | --- | 8.06  | ---  | 7.82 | 7.77 | 7.73 | 8.00 |
| 19   | 7.70 | 7.88 | 18.15 | 9.47  | 8.26  | --- | 8.14  | ---  | 7.84 | 7.72 | 7.66 | 7.95 |
| 20   | 7.63 | 7.80 | 14.84 | 9.11  | 9.27  | --- | 8.25  | ---  | 7.76 | 7.71 | 7.56 | 7.86 |
| 21   | 7.72 | 7.77 | 12.99 | 8.85  | 8.63  | --- | 15.83 | ---  | 7.70 | 7.64 | 7.38 | 8.62 |
| 22   | 7.75 | 7.85 | 12.69 | 8.75  | 8.41  | --- | 20.53 | 7.74 | 7.75 | 7.67 | 7.35 | 8.49 |
| 23   | 7.66 | 7.92 | 11.31 | 8.41  | 8.26  | --- | 21.36 | 7.66 | 7.75 | 7.72 | 7.49 | 8.13 |
| 24   | 7.68 | 7.93 | 9.06  | 10.53 | 8.05  | --- | 22.51 | 7.72 | 7.76 | 7.80 | 7.64 | ---  |
| 25   | 7.67 | 7.83 | 8.37  | 10.42 | 8.00  | --- | 19.40 | 7.72 | 7.75 | 8.19 | 7.71 | ---  |
| 26   | 7.70 | 7.94 | 7.92  | 11.33 | 7.98  | --- | 16.58 | 7.74 | 7.75 | 7.93 | 7.67 | ---  |
| 27   | 7.90 | 7.99 | 8.03  | 16.77 | ---   | --- | 12.91 | 7.76 | 7.69 | 7.91 | 7.64 | ---  |
| 28   | 7.66 | 8.03 | 8.03  | 14.34 | ---   | --- | 10.01 | 7.88 | 7.70 | 8.04 | 7.74 | ---  |
| 29   | 7.77 | 8.00 | 7.95  | 13.62 | ---   | --- | 8.73  | 7.76 | 7.64 | 8.12 | 7.66 | ---  |
| 30   | 7.76 | 7.99 | 7.94  | 12.65 | ---   | --- | 8.40  | 7.76 | 7.70 | 8.51 | 7.73 | ---  |
| 31   | 7.73 | ---  | 8.05  | 11.44 | ---   | --- | ---   | 7.91 | ---  | 8.31 | 7.77 | ---  |
| MEAN | 7.68 | 8.05 | 9.50  | 10.80 | ---   | --- | ---   | ---  | 7.90 | 7.88 | 7.79 | ---  |
| MAX  | 7.96 | 9.21 | 18.15 | 16.77 | ---   | --- | ---   | ---  | 8.68 | 8.57 | 8.73 | ---  |
| MIN  | 7.54 | 7.77 | 7.79  | 8.41  | ---   | --- | ---   | ---  | 7.64 | 7.59 | 7.35 | ---  |

## 02443500 LUXAPALLILA CREEK NEAR COLUMBUS, MS

LOCATION.--Lat 33°30'50", long 88°23'44", 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: Oct. 23-28, Nov. 21-24, Dec. 26 - Jan. 1, Feb. 4-6, 14-29, Mar. 1-5, 12-31, Apr. 1-20, 22-30, May 1-17. Records fair except for estimated daily discharges, which are poor. 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) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Jan. 28 | 2230 | *10,700                           | *14.08              | Apr. 23 | ---- | unknown                           | unknown             |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN    | FEB    | MAR    | APR    | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 1     | 387   | 403   | 1670  | e1000  | 3020   | e1340  | e990   | e1800 | 431   | 152   | 1950  | 413   |
| 2     | 378   | 382   | 1390  | 1580   | 3900   | e1000  | e985   | e1500 | 456   | 147   | 1300  | 407   |
| 3     | 485   | 485   | 1200  | 1810   | 4650   | e920   | e980   | e1200 | 533   | 142   | 941   | 416   |
| 4     | 1040  | 618   | 1020  | 1940   | e5000  | e900   | e975   | e1100 | 498   | 135   | 786   | 382   |
| 5     | 2140  | 757   | 972   | 1780   | e4000  | e870   | e970   | e1000 | 468   | 130   | 631   | 363   |
| 6     | 2560  | 674   | 1060  | 1920   | e3000  | 1710   | e970   | e980  | 382   | 126   | 516   | 361   |
| 7     | 2610  | 675   | 1060  | 2440   | 2090   | 3830   | e965   | e950  | 319   | 123   | 442   | 329   |
| 8     | 2020  | 945   | 963   | 3240   | 1980   | 6420   | e960   | e900  | 344   | 361   | 386   | 288   |
| 9     | 1520  | 1460  | 1240  | 3120   | 1950   | 5060   | e950   | e750  | 542   | 706   | 400   | 259   |
| 10    | 1100  | 1610  | 1540  | 2540   | 1880   | 3120   | e920   | e720  | 662   | 1110  | 389   | 253   |
| 11    | 843   | 1540  | 2090  | 2120   | 1730   | 2200   | e900   | e600  | 891   | 1140  | 369   | 223   |
| 12    | 732   | 1670  | 1620  | 2420   | 1530   | e1800  | e870   | e550  | 612   | 786   | 378   | 227   |
| 13    | 681   | 2010  | 1350  | 2640   | 1380   | e1400  | e840   | e500  | 539   | 496   | 354   | 273   |
| 14    | 699   | 1850  | 1110  | 2610   | e1210  | e1200  | e800   | e450  | 644   | 331   | 344   | 255   |
| 15    | 771   | 1420  | 893   | 2100   | e1080  | e1000  | e1000  | e400  | 641   | 429   | 328   | 215   |
| 16    | 780   | 1200  | 953   | 1820   | e920   | e950   | e1200  | e380  | 524   | 484   | 291   | 191   |
| 17    | 643   | 952   | 1210  | 1580   | e890   | e920   | e800   | e350  | 413   | 757   | 256   | 250   |
| 18    | 516   | 770   | 2200  | 1530   | e880   | e890   | e790   | 287   | 331   | 1120  | 227   | 523   |
| 19    | 463   | 638   | 3830  | 2040   | e890   | e1600  | e770   | 269   | 286   | 1210  | 203   | 803   |
| 20    | 416   | 543   | 4320  | 2270   | e1050  | e2100  | e750   | 255   | 253   | 1260  | 186   | 660   |
| 21    | 377   | e480  | 3830  | 2300   | e1200  | e1350  | 4940   | 244   | 230   | 1470  | 171   | 619   |
| 22    | 269   | e460  | 2580  | 1970   | e1050  | e1100  | e16500 | 232   | 229   | 1530  | 158   | 733   |
| 23    | e220  | e440  | 1590  | 1770   | e910   | e1000  | e17000 | 220   | 252   | 1570  | 149   | 856   |
| 24    | e180  | e500  | 1100  | 1840   | e900   | e950   | e15000 | 213   | 248   | 1680  | 145   | 907   |
| 25    | e175  | 561   | 831   | 1910   | e890   | e900   | e13000 | 202   | 220   | 2630  | 140   | 758   |
| 26    | e190  | 630   | e550  | 2670   | e870   | e2000  | e10900 | 193   | 204   | 3050  | 131   | 576   |
| 27    | e230  | 622   | e500  | 5690   | e820   | e3300  | e8800  | 189   | 188   | 3060  | 128   | 433   |
| 28    | e270  | 632   | e450  | 9440   | e800   | e3000  | e6600  | 330   | 175   | 3210  | 185   | 394   |
| 29    | 342   | 1150  | e430  | 9100   | e1100  | e2200  | e4400  | 403   | 166   | 3930  | 216   | 426   |
| 30    | 451   | 1390  | e410  | 5340   | ---    | e1300  | e2200  | 631   | 160   | 4920  | 273   | 471   |
| 31    | 471   | ---   | e405  | 3570   | ---    | e1000  | ---    | 604   | ---   | 5100  | 375   | ---   |
| TOTAL | 23959 | 27467 | 44367 | 88100  | 51570  | 57330  | 117725 | 18402 | 11841 | 43295 | 12748 | 13264 |
| MEAN  | 773   | 916   | 1431  | 2842   | 1778   | 1849   | 3924   | 594   | 395   | 1397  | 411   | 442   |
| MAX   | 2610  | 2010  | 4320  | 9440   | 5000   | 6420   | 17000  | 1800  | 891   | 5100  | 1950  | 907   |
| MIN   | 175   | 382   | 405   | 1000   | 800    | 870    | 750    | 189   | 160   | 123   | 128   | 191   |
| MED   | 485   | 674   | 1110  | 2120   | 1200   | 1340   | 977    | 450   | 363   | 1110  | 328   | 400   |
| AC-FT | 47520 | 54480 | 88000 | 174700 | 102300 | 113700 | 233500 | 36500 | 23490 | 85880 | 25290 | 26310 |
| CFSM  | 1.08  | 1.28  | 2.00  | 3.97   | 2.49   | 2.59   | 5.49   | .83   | .55   | 1.95  | .58   | .62   |
| IN.   | 1.25  | 1.43  | 2.31  | 4.58   | 2.68   | 2.98   | 6.12   | .96   | .62   | 2.25  | .66   | .69   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1996, 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 | 1996 |  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| MEAN | 421  | 764  | 1492 | 1995 | 2069 | 2389 | 2336 | 1364 | 541  | 500  | 281  | 301  |      |      |      |      |      |      |      |      |      |      |  |
| MAX  | 1675 | 1867 | 5840 | 3857 | 4650 | 6465 | 5671 | 7073 | 1524 | 1855 | 1201 | 1901 |      |      |      |      |      |      |      |      |      |      |  |
| (WY) | 1976 | 1980 | 1984 | 1979 | 1990 | 1980 | 1991 | 1991 | 1989 | 1994 | 1975 | 1979 |      |      |      |      |      |      |      |      |      |      |  |
| MIN  | 68.3 | 139  | 268  | 463  | 666  | 461  | 308  | 154  | 55.8 | 73.9 | 49.7 | 69.1 |      |      |      |      |      |      |      |      |      |      |  |
| (WY) | 1988 | 1988 | 1988 | 1986 | 1986 | 1988 | 1986 | 1988 | 1988 | 1988 | 1988 | 1987 |      |      |      |      |      |      |      |      |      |      |  |

|                          | FOR 1995 CALENDAR YEAR | FOR 1996 WATER YEAR | WATER YEARS 1975 - 1996 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 452606                 | 510068              |                         |
| ANNUAL MEAN              | 1240                   | 1394                | 1200                    |
| HIGHEST ANNUAL MEAN      |                        |                     | 2277                    |
| LOWEST ANNUAL MEAN       |                        |                     | 320                     |
| HIGHEST DAILY MEAN       | 19400                  | 17000               | 38000                   |
| LOWEST DAILY MEAN        | 94                     | 123                 | 25                      |
| ANNUAL SEVEN-DAY MINIMUM | 102                    | 136                 | 29                      |
| INSTANTANEOUS PEAK FLOW  |                        | unknown             | 40400                   |
| INSTANTANEOUS PEAK STAGE |                        | unknown             | 32.35                   |
| INSTANTANEOUS LOW FLOW   |                        | 123                 | 28                      |
| ANNUAL RUNOFF (AC-FT)    | 897700                 | 1012000             | 869600                  |
| ANNUAL RUNOFF (CFSM)     | 1.73                   | 1.95                | 1.68                    |
| ANNUAL RUNOFF (INCHES)   | 23.55                  | 26.54               | 22.81                   |
| 10 PERCENT EXCEEDS       | 2350                   | 3000                | 2610                    |
| 50 PERCENT EXCEEDS       | 699                    | 870                 | 584                     |
| 90 PERCENT EXCEEDS       | 182                    | 226                 | 126                     |

e Estimated

02443500 LUXAPALLILA CREEK NEAR COLUMBUS, MS--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1977 to current year.

SUSPENDED SEDIMENT DISCHARGE, 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>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... | 0915 | 1460                                                                  | 18                                                                      | 71                                                                       |
| FEB<br>26... | 1615 | 1300                                                                  | 13                                                                      | 46                                                                       |
| APR<br>08... | 1830 | 1370                                                                  | 19                                                                      | 70                                                                       |

LOCATION.--Lat 33°06'08", long 88°33'40", in NE1/4 sec.4, T.14 N., R.17 E., Choctaw Meridian, Noxubee County, Hydrologic Unit 03160108, on left bank at downstream side of bridge on U.S. Highway 45 at Macon, 0.2 mi upstream from Cedar Creek, 1.0 mi downstream from Illinois Central and Gulf Railroad bridge, 1.5 mi downstream from Horse Hunters Creek, and 6.2 mi upstream from Running Water Creek.

PERIOD OF RECORD.--August 1928 to September 1932, September 1938 to current year. Monthly discharge only June to September 1932, published in WSP 1304.

GAGE.--Water-stage recorder. Datum of gage is 142.38 ft above sea level (levels by U. S. Army Corps of Engineers). Prior to May 31, 1932, nonrecording gage at site 40 ft downstream at different datum. Sept. 21, 1938 to Aug. 10, 1939, nonrecording gage at present site and datum.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in July 1892 reached a stage of about 34 ft, present site and datum, from information by local residents. Flood in December 1926 reached a stage of about 30 ft.

| 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. 20 | 1700 | 7,920                             | 26.48               | Feb. 2 | 2000 | 6,560                             | 24.93               |
| Jan. 28 | 0500 | *12,500                           | *28.55              | Mar. 7 | 1700 | 5,260                             | 22.63               |

| DAY   | OCT  | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1     | 63   | 112   | 788   | 444   | 5690  | 353   | 3340  | 483  | 196  | 105  | 295  | 143  |
| 2     | 63   | 364   | 625   | 601   | 6170  | 331   | 1810  | 414  | 176  | 90   | 235  | e295 |
| 3     | 634  | 675   | 470   | 996   | 6200  | 316   | 1050  | 368  | 161  | 80   | 226  | e283 |
| 4     | 1100 | 455   | 365   | 899   | e5200 | 299   | 839   | 326  | 149  | 74   | 276  | e196 |
| 5     | 1710 | 286   | 328   | 841   | e3600 | 291   | 698   | 299  | 151  | 70   | 203  | 145  |
| 6     | 1200 | 235   | 309   | 2010  | 2530  | 2730  | 608   | 267  | 168  | 67   | 247  | 115  |
| 7     | 461  | 1060  | 336   | 3880  | 2270  | 4840  | 579   | 243  | 147  | 65   | 301  | 120  |
| 8     | 264  | 1720  | 344   | 3470  | 1870  | 4800  | 535   | 223  | 130  | 72   | 214  | 121  |
| 9     | 211  | 784   | 2330  | 2180  | 1540  | 3360  | 502   | 217  | 192  | 93   | 193  | 112  |
| 10    | 167  | 406   | 2370  | 1870  | 1330  | 1860  | 471   | 214  | 154  | 108  | 352  | 110  |
| 11    | 134  | 1280  | 1080  | 1730  | 1170  | 1300  | 436   | 193  | 150  | 122  | 199  | 106  |
| 12    | 117  | 1860  | 782   | 2810  | 973   | 848   | 408   | 173  | 146  | 107  | 217  | 96   |
| 13    | 107  | 881   | 609   | 2500  | 803   | 648   | 431   | 158  | 141  | 106  | 322  | 105  |
| 14    | 104  | 564   | 475   | 1860  | 679   | 550   | 624   | 149  | 118  | 108  | 195  | 123  |
| 15    | 108  | 522   | 409   | 1660  | 597   | 489   | 1130  | 143  | 119  | 94   | 202  | 111  |
| 16    | 109  | 385   | 1090  | 1290  | 535   | 447   | 1030  | 139  | 109  | 96   | 190  | 108  |
| 17    | 99   | 294   | 2010  | 956   | 501   | 410   | 897   | 135  | 108  | 308  | 144  | 113  |
| 18    | 95   | 246   | 4210  | 862   | 489   | 418   | 865   | 129  | 120  | 352  | 117  | 111  |
| 19    | 90   | 218   | 6210  | 1140  | 489   | 1310  | 698   | 130  | 107  | 232  | 104  | 89   |
| 20    | 88   | 191   | 7530  | 1090  | 549   | 2130  | 1010  | 128  | 105  | 171  | 95   | 83   |
| 21    | 85   | 171   | 7070  | 938   | 634   | 1730  | 3160  | 122  | 146  | 138  | 90   | 89   |
| 22    | 81   | 150   | 5520  | 908   | 603   | 1610  | 3370  | 116  | 111  | 119  | 80   | 602  |
| 23    | 80   | 266   | 4260  | 780   | 587   | 1430  | 3120  | 110  | 93   | 119  | 81   | 367  |
| 24    | 79   | 601   | 3570  | 2200  | 539   | 919   | 2990  | 110  | 90   | 142  | 82   | 212  |
| 25    | 77   | 556   | 2490  | 2740  | 480   | 2320  | 2840  | 104  | 86   | 223  | 85   | 202  |
| 26    | 75   | 381   | 1030  | 3930  | 434   | 3990  | 2820  | 99   | 84   | 260  | 81   | 116  |
| 27    | 77   | 297   | 695   | 8690  | 400   | 3810  | 2670  | 110  | 80   | 260  | 76   | 89   |
| 28    | 91   | 368   | 582   | 11500 | 380   | 3880  | 2070  | 113  | 81   | 202  | 77   | 83   |
| 29    | 117  | 1420  | 507   | 8190  | 370   | 3780  | 1010  | 135  | 82   | 292  | 86   | 100  |
| 30    | 126  | 1380  | 457   | 6630  | ---   | 3650  | 584   | 165  | 89   | 199  | 133  | 98   |
| 31    | 114  | ---   | 429   | 6000  | ---   | 3740  | ---   | 166  | ---  | 210  | 147  | ---  |
| TOTAL | 7926 | 18128 | 59280 | 85595 | 47612 | 58589 | 42595 | 5881 | 3789 | 4684 | 5345 | 4643 |
| MEAN  | 256  | 604   | 1912  | 2761  | 1642  | 1890  | 1420  | 190  | 126  | 151  | 172  | 155  |
| MAX   | 1710 | 1860  | 7530  | 11500 | 6200  | 4840  | 3370  | 483  | 196  | 352  | 352  | 602  |
| MIN   | 63   | 112   | 309   | 444   | 370   | 291   | 408   | 99   | 80   | 65   | 76   | 83   |
| CFSM  | .33  | .79   | 2.49  | 3.60  | 2.14  | 2.46  | 1.85  | .25  | .16  | .20  | .22  | .20  |
| IN.   | .38  | .88   | 2.87  | 4.15  | 2.31  | 2.84  | 2.06  | .28  | .18  | .23  | .26  | .24  |

|      |      |      |      |      |      |      |       |      |      |      |      |      |
|------|------|------|------|------|------|------|-------|------|------|------|------|------|
| MEAN | 173  | 432  | 1143 | 1936 | 2324 | 2440 | 2117  | 1075 | 336  | 427  | 197  | 209  |
| MAX  | 1970 | 2518 | 6913 | 8286 | 6013 | 6396 | 11290 | 6567 | 1787 | 5315 | 1335 | 2520 |
| (WY) | 1976 | 1958 | 1962 | 1974 | 1983 | 1980 | 1979  | 1991 | 1989 | 1940 | 1946 | 1979 |
| MIN  | 32.1 | 46.4 | 78.3 | 69.5 | 293  | 423  | 118   | 93.9 | 57.3 | 53.6 | 34.4 | 28.4 |
| (WY) | 1944 | 1964 | 1944 | 1969 | 1943 | 1967 | 1963  | 1988 | 1988 | 1956 | 1954 | 1954 |

|                          |        |        |        |        |        |             |
|--------------------------|--------|--------|--------|--------|--------|-------------|
| ANNUAL TOTAL             | 430796 |        | 344067 |        |        |             |
| ANNUAL MEAN              | 1180   |        | 940    |        | 1061   |             |
| HIGHEST ANNUAL MEAN      |        |        |        |        | 2666   | 1983        |
| LOWEST ANNUAL MEAN       |        |        |        |        | 248    | 1963        |
| HIGHEST DAILY MEAN       | 11600  | Apr 25 | 11500  | Jan 28 | 110000 | Apr 13 1979 |
| LOWEST DAILY MEAN        | 50     | Sep 11 | 63     | Oct 1  | 23     | Aug 26 1943 |
| ANNUAL SEVEN-DAY MINIMUM | 53     | Sep 7  | 74     | Jul 2  | 25     | Aug 24 1943 |
| INSTANTANEOUS PEAK FLOW  |        |        | 12500  | Jan 28 | 125000 | Apr 13 1979 |
| INSTANTANEOUS PEAK STAGE |        |        | 28.55  | Jan 28 | 38.97  | Apr 13 1979 |
| INSTANTANEOUS LOW FLOW   |        |        | 63     | Oct 1a | 22     | Aug 25 1943 |
| ANNUAL RUNOFF (CFSM)     | 1.54   |        | 1.22   |        | 1.38   |             |
| ANNUAL RUNOFF (INCHES)   | 20.87  |        | 16.67  |        | 18.78  |             |
| 10 PERCENT EXCEEDS       | 3580   |        | 2810   |        | 3190   |             |
| 50 PERCENT EXCEEDS       | 380    |        | 308    |        | 230    |             |
| 90 PERCENT EXCEEDS       | 77     |        | 90     |        | 59     |             |

a Also occurred on Oct. 2, 3, Jul 7.



## 02448500 NOXUBEE RIVER NEAR GEIGER, AL

LOCATION.--Lat 32°55'57", long 88°17'52", in NE 1/4 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.

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

GAGE.--Water-stage recorder. Datum of gage 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: Mar. 2-4, May 4 to June 4. Records good except those for periods of estimated record, 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN    | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|-------|-------|-------|--------|-------|-------|-------|------|------|------|------|------|
| 1     | 87    | 142   | 1530  | 473    | 10900 | 445   | 5740  | 677  | e280 | 112  | 289  | 160  |
| 2     | 82    | 165   | 949   | 1570   | 10600 | e420  | 4200  | 546  | e270 | 127  | 337  | 167  |
| 3     | 1080  | 1630  | 734   | 1480   | 10400 | e395  | 2260  | 471  | e235 | 128  | 452  | 251  |
| 4     | 3050  | 1060  | 584   | 1260   | 9070  | e360  | 1240  | e430 | e210 | 113  | 400  | 177  |
| 5     | 4380  | 583   | 497   | 1050   | 7390  | 347   | 947   | e385 | 196  | 104  | 350  | 212  |
| 6     | 3430  | 365   | 440   | 2060   | 5270  | 2330  | 787   | e360 | 185  | 99   | 313  | 197  |
| 7     | 1380  | 1010  | 412   | 5070   | 3330  | 7480  | 691   | e335 | 237  | 96   | 421  | 150  |
| 8     | 581   | 3320  | 434   | 4890   | 2790  | 8800  | 632   | e305 | 1180 | 118  | 403  | 135  |
| 9     | 324   | 2140  | 2270  | 3870   | 2320  | 7730  | 568   | e290 | 1070 | 130  | 299  | 145  |
| 10    | 242   | 1070  | 3720  | 2540   | 1870  | 5330  | 517   | e270 | 352  | 119  | 257  | 137  |
| 11    | 203   | 3850  | 2700  | 2240   | 1570  | 2560  | 480   | e245 | 255  | 141  | 438  | 140  |
| 12    | 171   | 4230  | 1340  | 4010   | 1320  | 1510  | 446   | e235 | 205  | 144  | 572  | 145  |
| 13    | 147   | 2420  | 949   | 3790   | 1080  | 1050  | 474   | e220 | 192  | 149  | 325  | 128  |
| 14    | 136   | 1280  | 742   | 2910   | 913   | 823   | 621   | e212 | 191  | 139  | 370  | 116  |
| 15    | 127   | 898   | 583   | 2120   | 786   | 702   | 3620  | e200 | 190  | 150  | 266  | 133  |
| 16    | 122   | 713   | 699   | 1770   | 685   | 627   | 3120  | e190 | 168  | 141  | 221  | 136  |
| 17    | 128   | 531   | 2150  | 1380   | 610   | 569   | 1440  | e183 | 155  | 167  | 228  | 128  |
| 18    | 122   | 405   | 4720  | 1130   | 570   | 558   | 1070  | e174 | 144  | 349  | 185  | 130  |
| 19    | 114   | 334   | 8450  | 2140   | 629   | 1290  | 956   | e166 | 160  | 413  | 152  | 137  |
| 20    | 110   | 293   | 8700  | 1630   | 1140  | 2120  | 859   | e160 | 175  | 291  | 132  | 120  |
| 21    | 105   | 262   | 7860  | 1290   | 943   | 2290  | 3420  | e153 | 151  | 222  | 119  | 113  |
| 22    | 103   | 232   | 7030  | 1120   | 857   | 1870  | 4090  | e148 | 170  | 182  | 114  | 117  |
| 23    | 101   | 228   | 6290  | 1030   | 768   | 1700  | 4310  | e142 | 170  | 167  | 111  | 462  |
| 24    | 98    | 600   | 5080  | 2060   | 703   | 1460  | 4320  | e135 | 140  | 197  | 110  | 465  |
| 25    | 97    | 844   | 3800  | 3470   | 624   | 3390  | 4020  | e130 | 125  | 1340 | 109  | 248  |
| 26    | 97    | 695   | 2490  | 4900   | 554   | 5860  | 3660  | e127 | 122  | 750  | 109  | 242  |
| 27    | 105   | 498   | 1130  | 12100  | 503   | 5300  | 3210  | e133 | 126  | 467  | 109  | 185  |
| 28    | 111   | 377   | 768   | 12500  | 473   | 5890  | 2750  | e142 | 117  | 1390 | 108  | 147  |
| 29    | 115   | 1510  | 635   | 11700  | 454   | 5390  | 2050  | e170 | 117  | 768  | 108  | 148  |
| 30    | 133   | 2100  | 552   | 11000  | ---   | 4450  | 1110  | e210 | 114  | 421  | 109  | 150  |
| 31    | 139   | ---   | 501   | 11900  | ---   | 5120  | ---   | e250 | ---  | 307  | 153  | ---  |
| TOTAL | 17220 | 33785 | 78739 | 120453 | 79122 | 88166 | 63608 | 7794 | 7402 | 9441 | 7669 | 5321 |
| MEAN  | 555   | 1126  | 2540  | 3886   | 2728  | 2844  | 2120  | 251  | 247  | 305  | 247  | 177  |
| MAX   | 4380  | 4230  | 8700  | 12500  | 10900 | 8800  | 5740  | 677  | 1180 | 1390 | 572  | 465  |
| MIN   | 82    | 142   | 412   | 473    | 454   | 347   | 446   | 127  | 114  | 96   | 108  | 113  |
| CFSM  | .51   | 1.03  | 2.32  | 3.54   | 2.49  | 2.59  | 1.93  | .23  | .22  | .28  | .23  | .16  |
| IN.   | .58   | 1.15  | 2.67  | 4.08   | 2.68  | 2.99  | 2.16  | .26  | .25  | .32  | .26  | .18  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1996, BY WATER YEAR (WY)

|      | MEAN | 270  | 628  | 1677 | 2942 | 3509 | 3488  | 3258  | 1484 | 568  | 651  | 316  | 305 |
|------|------|------|------|------|------|------|-------|-------|------|------|------|------|-----|
| MAX  | 2515 | 2958 | 9407 | 9782 | 9415 | 9230 | 17520 | 10340 | 2787 | 7432 | 2064 | 3067 |     |
| (WY) | 1976 | 1958 | 1962 | 1949 | 1983 | 1980 | 1979  | 1991  | 1939 | 1940 | 1946 | 1950 |     |
| MIN  | 31.0 | 49.5 | 105  | 91.1 | 527  | 542  | 180   | 107   | 61.3 | 62.8 | 34.1 | 27.5 |     |
| (WY) | 1955 | 1955 | 1963 | 1956 | 1963 | 1967 | 1963  | 1965  | 1988 | 1952 | 1954 | 1954 |     |

## SUMMARY STATISTICS

## FOR 1995 CALENDAR YEAR

## FOR 1996 WATER YEAR

## WATER YEARS 1939 - 1996

|                          |        |        |             |
|--------------------------|--------|--------|-------------|
| ANNUAL TOTAL             | 570975 | 518720 |             |
| ANNUAL MEAN              | 1564   | 1417   | 1580        |
| HIGHEST ANNUAL MEAN      |        |        | 3967        |
| LOWEST ANNUAL MEAN       |        |        | 327         |
| HIGHEST DAILY MEAN       | 9830   | Apr 24 | 136000      |
| LOWEST DAILY MEAN        | 66     | Sep 13 | 22          |
| ANNUAL SEVEN-DAY MINIMUM | 69     | Sep 9  | 23          |
| INSTANTANEOUS PEAK FLOW  |        |        | 13100       |
| INSTANTANEOUS PEAK STAGE |        |        | 36.04       |
| ANNUAL RUNOFF (CFSM)     | 1.43   |        | 1.29        |
| ANNUAL RUNOFF (INCHES)   | 19.36  |        | 17.59       |
| 10 PERCENT EXCEEDS       | 4860   |        | 4210        |
| 50 PERCENT EXCEEDS       | 498    |        | 449         |
| 90 PERCENT EXCEEDS       | 97     |        | 120         |
|                          |        |        | 4930        |
|                          |        |        | 352         |
|                          |        |        | 75          |
|                          |        |        | 48.58       |
|                          |        |        | 19.57       |
|                          |        |        | 1.44        |
|                          |        |        | Apr 14 1979 |
|                          |        |        | Sep 24 1954 |
|                          |        |        | Sep 23 1954 |
|                          |        |        | Apr 14 1979 |
|                          |        |        | Apr 14 1979 |

e Estimated

## 02472000 LEAF RIVER NEAR COLLINS, MS

LOCATION.--Lat 31°42'25", long 89°24'25", in NE1/4 sec.33, T.9 N., R.14 W., St. Stephens Meridian, Covington County, Hydrologic Unit 03170004, on right bank at downstream side of bridge on U.S. Highway 84, 2.0 mi downstream from Oakohay Creek, 10.6 mi upstream from Big Creek, 9.5 mi northeast of Collins, and at mile 114.5.

DRAINAGE AREA.--743 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 2106: 1950(M). WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 197.01 ft above sea level. Prior to Dec. 8, 1938, 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 1856 reached a stage of about 33 ft, and the flood in April 1900 reached a stage of 32 ft, from information by local residents.

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) |
|---------|------|-----------------------------------|---------------------|--------|------|-----------------------------------|---------------------|
| Dec. 21 | 0515 | 10,100                            | 17.78               | Mar. 9 | 2045 | *12,100                           | *19.32              |
| Jan. 29 | 1430 | 8,710                             | 16.63               |        |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT  | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1     | 122  | 164   | 187   | 493   | 2010  | 523   | 3270  | 513  | 177  | 138  | 457  | 538  |
| 2     | 121  | 212   | 183   | 835   | 3920  | 506   | 3160  | 438  | 176  | 136  | 560  | 364  |
| 3     | 302  | 268   | 179   | 1600  | 6630  | 468   | 1930  | 391  | 184  | 133  | 778  | 271  |
| 4     | 1020 | 275   | 264   | 2140  | 6230  | 430   | 1150  | 356  | 174  | 133  | 600  | 225  |
| 5     | 1000 | 448   | 425   | 1350  | 4880  | 408   | 855   | 328  | 158  | 127  | 384  | 197  |
| 6     | 939  | 471   | 865   | 833   | 2740  | 674   | 916   | 304  | 151  | 123  | 310  | 179  |
| 7     | 709  | 404   | 1530  | 693   | 1790  | 5400  | 955   | 283  | 148  | 125  | 260  | 163  |
| 8     | 464  | 454   | 1630  | 841   | 1360  | 8050  | 825   | 266  | 181  | 164  | 235  | 154  |
| 9     | 315  | 326   | 1870  | 859   | 1200  | 11300 | 684   | 253  | 200  | 152  | 305  | 146  |
| 10    | 247  | 401   | 2260  | 647   | 1040  | 8280  | 582   | 240  | 166  | 140  | 660  | 142  |
| 11    | 211  | 1790  | 2540  | 558   | 914   | 3430  | 515   | 233  | 149  | 193  | 488  | 148  |
| 12    | 187  | 1880  | 1940  | 638   | 803   | 2120  | 473   | 235  | 143  | 180  | 291  | 143  |
| 13    | 172  | 2110  | 958   | 868   | 711   | 1260  | 1180  | 225  | 142  | 154  | 215  | 132  |
| 14    | 222  | 1470  | 576   | 961   | 648   | 1010  | 2320  | 210  | 257  | 204  | 177  | 126  |
| 15    | 224  | 761   | 471   | 690   | 606   | 872   | 4710  | 202  | 423  | 187  | 177  | 124  |
| 16    | 199  | 509   | 446   | 564   | 567   | 785   | 4150  | 196  | 340  | 269  | 177  | 130  |
| 17    | 169  | 440   | 702   | 501   | 529   | 747   | 3490  | 189  | 279  | 240  | 151  | 157  |
| 18    | 156  | 364   | 2890  | 474   | 505   | 786   | 2360  | 182  | 308  | 292  | 139  | 148  |
| 19    | 149  | 309   | 6640  | 490   | 523   | 898   | 1590  | 175  | 263  | 218  | 131  | 137  |
| 20    | 144  | 274   | 8050  | 514   | 1050  | 1300  | 980   | 171  | 216  | 172  | 126  | 129  |
| 21    | 137  | 248   | 9230  | 590   | 921   | 1330  | 766   | 165  | 206  | 151  | 120  | 141  |
| 22    | 133  | 224   | 4470  | 507   | 781   | 849   | 638   | 160  | 182  | 137  | 114  | 144  |
| 23    | 131  | 210   | 2380  | 457   | 673   | 650   | 945   | 155  | 197  | 128  | 108  | 132  |
| 24    | 128  | 273   | 1400  | 657   | 587   | 564   | 1330  | 149  | 192  | 124  | 106  | 122  |
| 25    | 126  | 260   | 893   | 1560  | 522   | 1380  | 1480  | 146  | 204  | 127  | 107  | 117  |
| 26    | 123  | 235   | 736   | 2460  | 484   | 3330  | 1000  | 142  | 218  | 135  | 118  | 114  |
| 27    | 130  | 218   | 644   | 6530  | 464   | 4380  | 869   | 140  | 184  | 151  | 123  | 119  |
| 28    | 171  | 201   | 577   | 6470  | 514   | 4420  | 812   | 145  | 163  | 313  | 140  | 146  |
| 29    | 174  | 202   | 524   | 8190  | 529   | 2630  | 693   | 200  | 151  | 249  | 250  | 171  |
| 30    | 159  | 195   | 489   | 4910  | ---   | 2360  | 618   | 233  | 143  | 279  | 796  | 164  |
| 31    | 146  | ---   | 468   | 2690  | ---   | 2680  | ---   | 197  | ---  | 302  | 888  | ---  |
| TOTAL | 8630 | 15596 | 56417 | 51570 | 44131 | 73820 | 45246 | 7222 | 6075 | 5576 | 9491 | 5123 |
| MEAN  | 278  | 520   | 1820  | 1664  | 1522  | 2381  | 1508  | 233  | 202  | 180  | 306  | 171  |
| MAX   | 1020 | 2110  | 9230  | 8190  | 6630  | 11300 | 4710  | 513  | 423  | 313  | 888  | 538  |
| MIN   | 121  | 164   | 179   | 457   | 464   | 408   | 473   | 140  | 142  | 123  | 106  | 114  |
| CFSM  | .37  | .70   | 2.45  | 2.24  | 2.05  | 3.20  | 2.03  | .31  | .27  | .24  | .41  | .23  |
| IN.   | .43  | .78   | 2.82  | 2.58  | 2.21  | 3.70  | 2.27  | .36  | .30  | .28  | .48  | .26  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1996, BY WATER YEAR (WY)

|      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 295  | 613  | 1165 | 1833 | 2352 | 2324 | 2149 | 1115 | 439  | 509  | 340  | 284  |
| MAX  | 1660 | 3674 | 6085 | 5792 | 7841 | 5649 | 7455 | 4750 | 1609 | 4373 | 980  | 1264 |
| (WY) | 1985 | 1994 | 1962 | 1962 | 1990 | 1980 | 1974 | 1991 | 1989 | 1940 | 1960 | 1957 |
| MIN  | 67.8 | 89.7 | 177  | 233  | 361  | 385  | 217  | 119  | 121  | 102  | 82.4 | 69.2 |
| (WY) | 1953 | 1957 | 1953 | 1956 | 1957 | 1955 | 1963 | 1963 | 1988 | 1952 | 1954 | 1954 |

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1938 - 1996

|                          |        |        |       |
|--------------------------|--------|--------|-------|
| ANNUAL TOTAL             | 322232 | 328897 | 1112  |
| ANNUAL MEAN              | 883    | 899    | 2291  |
| HIGHEST ANNUAL MEAN      |        |        | 393   |
| LOWEST ANNUAL MEAN       |        |        | 51000 |
| HIGHEST DAILY MEAN       | 14000  | Apr 25 | 11300 |
| LOWEST DAILY MEAN        | 89     | Sep 10 | 106   |
| ANNUAL SEVEN-DAY MINIMUM | 90     | Sep 7  | 114   |
| INSTANTANEOUS PEAK FLOW  |        |        | 12100 |
| INSTANTANEOUS PEAK STAGE |        |        | 19.32 |
| INSTANTANEOUS LOW FLOW   |        |        | 105   |
| ANNUAL RUNOFF (CFSM)     | 1.19   | 1.21   | 1.50  |
| ANNUAL RUNOFF (INCHES)   | 16.13  | 16.47  | 20.33 |
| 10 PERCENT EXCEEDS       | 2100   | 2280   | 2780  |
| 50 PERCENT EXCEEDS       | 339    | 334    | 373   |
| 90 PERCENT EXCEEDS       | 126    | 136    | 116   |

## 02472500 BOUIE CREEK NEAR HATTIESBURG, MS

LOCATION.--Lat 31°25'32", long 89°24'53", in 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 except for period of lagging intakes, Apr. 24 - May 22, which is fair. 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. 7 | 2000 | *3,590                            | *12.22              | No peaks greater than base discharge. |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1     | 139  | 188  | 191   | 236   | 540   | 543   | 538   | 325  | 173  | 159  | 150  | 198  |
| 2     | 139  | 235  | 187   | 368   | 671   | 366   | 435   | 295  | 194  | 156  | 180  | 186  |
| 3     | 150  | 481  | 187   | 438   | 1070  | 309   | 326   | 255  | 235  | 156  | 195  | 193  |
| 4     | 338  | 388  | 196   | 322   | 923   | 276   | 284   | 236  | 229  | 155  | 178  | 183  |
| 5     | 644  | 272  | 226   | 268   | 763   | 261   | 265   | 224  | 190  | 152  | 166  | 170  |
| 6     | 535  | 220  | 251   | 248   | 501   | 1100  | 540   | 218  | 176  | 149  | 159  | 161  |
| 7     | 255  | 214  | 753   | 236   | 391   | 2870  | 689   | 214  | 167  | 149  | 164  | 155  |
| 8     | 195  | 245  | 727   | 231   | 361   | 2410  | 435   | 207  | 198  | 150  | 169  | 151  |
| 9     | 176  | 293  | 519   | 224   | 331   | 1180  | 319   | 200  | 232  | 152  | 161  | 148  |
| 10    | 168  | 239  | 602   | 219   | 309   | 729   | 273   | 194  | 234  | 151  | 153  | 148  |
| 11    | 163  | 235  | 410   | 218   | 290   | 426   | 248   | 192  | 186  | 149  | 152  | 145  |
| 12    | 161  | 387  | 296   | 230   | 273   | 353   | 237   | 189  | 173  | 146  | 150  | 143  |
| 13    | 158  | 392  | 261   | 254   | 255   | 317   | 544   | 182  | 179  | 171  | 146  | 141  |
| 14    | 172  | 269  | 243   | 242   | 246   | 292   | 983   | 179  | 255  | 379  | 148  | 141  |
| 15    | 253  | 233  | 232   | 225   | 242   | 276   | 1930  | 176  | 429  | 189  | 146  | 142  |
| 16    | 203  | 219  | 225   | 219   | 237   | 288   | 1470  | 172  | 288  | 189  | 142  | 143  |
| 17    | 175  | 205  | 231   | 217   | 229   | 580   | 782   | 169  | 220  | 192  | 140  | 151  |
| 18    | 165  | 197  | 638   | 216   | 224   | 533   | 494   | 165  | 191  | 231  | 140  | 159  |
| 19    | 160  | 193  | 1590  | 238   | 268   | 977   | 398   | 161  | 178  | 187  | 180  | 153  |
| 20    | 159  | 190  | 1450  | 247   | 549   | 531   | 344   | 157  | 173  | 174  | 162  | 147  |
| 21    | 155  | 190  | 976   | 228   | 395   | 347   | 299   | 157  | 180  | 163  | 148  | 168  |
| 22    | 155  | 190  | 633   | 222   | 307   | 289   | 269   | 156  | 205  | 154  | 145  | 245  |
| 23    | 154  | 187  | 351   | 222   | 270   | 262   | 511   | 154  | 182  | 145  | 142  | 214  |
| 24    | 156  | 207  | 294   | 277   | 251   | 246   | 861   | 153  | 178  | 142  | 139  | 170  |
| 25    | 158  | 258  | 268   | 438   | 237   | 378   | 489   | 151  | 196  | 138  | 139  | 156  |
| 26    | 155  | 216  | 253   | 545   | 231   | 698   | 324   | 149  | 194  | 138  | 149  | 150  |
| 27    | 155  | 199  | 243   | 2780  | 225   | 667   | 287   | 149  | 201  | 139  | 175  | 171  |
| 28    | 203  | 192  | 237   | 2320  | 595   | 565   | 277   | 152  | 181  | 139  | 184  | 196  |
| 29    | 262  | 188  | 232   | 1110  | 1040  | 444   | 272   | 184  | 170  | 148  | 167  | 186  |
| 30    | 217  | 189  | 230   | 734   | ---   | 506   | 298   | 189  | 163  | 150  | 209  | 173  |
| 31    | 186  | ---  | 228   | 656   | ---   | 583   | ---   | 189  | ---  | 146  | 205  | ---  |
| TOTAL | 6464 | 7311 | 13360 | 14628 | 12224 | 19602 | 15421 | 5893 | 6150 | 5138 | 4983 | 4987 |
| MEAN  | 209  | 244  | 431   | 472   | 422   | 632   | 514   | 190  | 205  | 166  | 161  | 166  |
| MAX   | 644  | 481  | 1590  | 2780  | 1070  | 2870  | 1930  | 325  | 429  | 379  | 209  | 245  |
| MIN   | 139  | 187  | 187   | 216   | 224   | 246   | 237   | 149  | 163  | 138  | 139  | 141  |
| CFSM  | .69  | .80  | 1.42  | 1.55  | 1.39  | 2.08  | 1.69  | .63  | .67  | .55  | .53  | .55  |
| IN.   | .79  | .89  | 1.63  | 1.79  | 1.50  | 2.40  | 1.89  | .72  | .75  | .63  | .61  | .61  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1996, BY WATER YEAR (WY)

|          | 204  | 310  | 509  | 653  | 798  | 809  | 726  | 486  | 263  | 264  | 233  | 229  |
|----------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN     | 841  | 1343 | 1708 | 1867 | 3294 | 2216 | 3084 | 2219 | 604  | 1553 | 660  | 1082 |
| MAX (WY) | 1986 | 1949 | 1962 | 1947 | 1961 | 1980 | 1974 | 1990 | 1991 | 1940 | 1949 | 1958 |
| MIN (WY) | 102  | 108  | 169  | 139  | 203  | 203  | 162  | 125  | 124  | 128  | 112  | 99.1 |
|          | 1957 | 1957 | 1955 | 1957 | 1968 | 1955 | 1963 | 1956 | 1955 | 1968 | 1954 | 1954 |

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1938 - 1996

|                          | 126908 | 116161 | 455   |
|--------------------------|--------|--------|-------|
| ANNUAL TOTAL             | 348    | 317    | 868   |
| ANNUAL MEAN              |        |        | 213   |
| HIGHEST ANNUAL MEAN      |        |        | 1949  |
| LOWEST ANNUAL MEAN       |        |        | 1963  |
| HIGHEST DAILY MEAN       | 3350   | 2870   | 33500 |
| LOWEST DAILY MEAN        | 131    | 138    | 83    |
| ANNUAL SEVEN-DAY MINIMUM | 133    | 141    | 84    |
| INSTANTANEOUS PEAK FLOW  |        | 3590   | 45500 |
| INSTANTANEOUS PEAK STAGE |        | 12.22  | 28.18 |
| INSTANTANEOUS LOW FLOW   |        | 137    | 83    |
| ANNUAL RUNOFF (CFSM)     | 1.14   | 1.04   | 1.50  |
| ANNUAL RUNOFF (INCHES)   | 15.53  | 14.21  | 20.35 |
| 10 PERCENT EXCEEDS       | 651    | 569    | 871   |
| 50 PERCENT EXCEEDS       | 230    | 218    | 232   |
| 90 PERCENT EXCEEDS       | 154    | 149    | 134   |

## 02472850 OKATOMA CREEK AT SANFORD, MS

LOCATION.--Lat 31°29'21", long 88°26'01", NW1/4 NE1/4 sec.18, T.6 N., R.14 N., 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.--Estimated daily discharges: Nov. 24-30, Dec. 15 - Jan. 9, Apr. 29, Jun. 13, 20, 22-28, Jul. 6-7, 9-11, Sept. 23. Records fair except for estimated discharges, which are poor. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1     | 94   | 144  | 142   | e240  | 498   | 301   | 1220  | 316  | 143  | 117  | 137  | 272  |
| 2     | 94   | 308  | 134   | e350  | 798   | 237   | 749   | 248  | 167  | 113  | 356  | 169  |
| 3     | 185  | 387  | 143   | e580  | 1370  | 202   | 510   | 220  | 171  | 110  | 222  | 132  |
| 4     | 703  | 288  | 163   | e470  | 1250  | 188   | 414   | 203  | 155  | 109  | 144  | 152  |
| 5     | 897  | 216  | 182   | e380  | 1270  | 223   | 343   | 194  | 138  | 108  | 161  | 136  |
| 6     | 999  | 192  | 433   | e310  | 906   | 1520  | 743   | 185  | 131  | e106 | 133  | 116  |
| 7     | 360  | 217  | 680   | e270  | 593   | 2710  | 671   | 181  | 130  | e103 | 131  | 109  |
| 8     | 182  | 376  | 529   | e250  | 498   | 1710  | 467   | 176  | 172  | 101  | 116  | 104  |
| 9     | 144  | 349  | 693   | e230  | 400   | 1430  | 355   | 170  | 205  | e110 | 110  | 101  |
| 10    | 131  | 250  | 563   | 239   | 348   | 1240  | 308   | 164  | 165  | e110 | 102  | 98   |
| 11    | 126  | 464  | 386   | 247   | 272   | 820   | 281   | 170  | 141  | e130 | 113  | 95   |
| 12    | 124  | 783  | 295   | 277   | 214   | 569   | 272   | 170  | 130  | 167  | 97   | 92   |
| 13    | 122  | 789  | 246   | 311   | 195   | 466   | 1120  | 171  | e140 | 134  | 94   | 90   |
| 14    | 396  | 674  | 220   | 277   | 203   | 444   | 1310  | 163  | 382  | 121  | 91   | 87   |
| 15    | 249  | 302  | e210  | 256   | 189   | 438   | 2150  | 159  | 300  | 169  | 91   | 88   |
| 16    | 170  | 220  | e200  | 262   | 171   | 441   | 1600  | 154  | 290  | 138  | 88   | 94   |
| 17    | 138  | 188  | e330  | 283   | 167   | 498   | 1120  | 148  | 188  | 180  | 85   | 112  |
| 18    | 126  | 184  | e900  | 301   | 171   | 612   | 861   | 141  | 151  | 217  | 91   | 112  |
| 19    | 122  | 168  | e1700 | 275   | 240   | 656   | 482   | 134  | 146  | 139  | 89   | 101  |
| 20    | 116  | 171  | e1600 | 250   | 391   | 396   | 391   | 127  | e210 | 114  | 86   | 97   |
| 21    | 110  | 164  | e1200 | 225   | 365   | 324   | 334   | 125  | 157  | 105  | 82   | 160  |
| 22    | 108  | 153  | e900  | 220   | 291   | 289   | 290   | 122  | e150 | 100  | 80   | 144  |
| 23    | 108  | 153  | e540  | 258   | 229   | 268   | 806   | 124  | e150 | 96   | 80   | e127 |
| 24    | 109  | e180 | e320  | 376   | 185   | 280   | 865   | 125  | e150 | 91   | 79   | 104  |
| 25    | 108  | e160 | e270  | 480   | 171   | 817   | 615   | 121  | e149 | 89   | 80   | 98   |
| 26    | 107  | e170 | e240  | 751   | 187   | 1230  | 404   | 118  | e200 | 89   | 81   | 95   |
| 27    | 125  | e180 | e230  | 2680  | 194   | 1020  | 313   | 117  | e170 | 88   | 95   | 120  |
| 28    | 277  | e160 | e220  | 1830  | 810   | 898   | 276   | 122  | e140 | 95   | 94   | 129  |
| 29    | 194  | e140 | e210  | 1580  | 442   | 650   | e370  | 173  | 130  | 100  | 115  | 134  |
| 30    | 154  | e150 | e210  | 1390  | ---   | 697   | 483   | 182  | 122  | 91   | 147  | 151  |
| 31    | 140  | ---  | e200  | 780   | ---   | 1080  | ---   | 171  | ---  | 90   | 310  | ---  |
| TOTAL | 7018 | 8280 | 14289 | 16628 | 13018 | 22654 | 20123 | 5094 | 5173 | 3630 | 3780 | 3619 |
| MEAN  | 226  | 276  | 461   | 536   | 449   | 731   | 671   | 164  | 172  | 117  | 122  | 121  |
| MAX   | 999  | 789  | 1700  | 2680  | 1370  | 2710  | 2150  | 316  | 382  | 217  | 356  | 272  |
| MIN   | 94   | 140  | 134   | 220   | 167   | 188   | 272   | 117  | 122  | 88   | 79   | 87   |
| CFSM  | .88  | 1.07 | 1.79  | 2.09  | 1.75  | 2.84  | 2.61  | .64  | .67  | .46  | .47  | .47  |
| IN.   | 1.02 | 1.20 | 2.07  | 2.41  | 1.88  | 3.28  | 2.91  | .74  | .75  | .53  | .55  | .52  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1996, BY WATER YEAR (WY)

|      | MEAN | 221  | 256  | 449  | 480  | 381  | 795  | 748  | 238  | 206  | 124  | 123  | 119  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MAX  | 226  | 276  | 461  | 536  | 449  | 860  | 825  | 312  | 241  | 130  | 124  | 121  | 121  |
| (WY) | 1996 | 1996 | 1996 | 1996 | 1996 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1995 | 1996 |
| MIN  | 216  | 237  | 437  | 425  | 311  | 731  | 671  | 164  | 172  | 117  | 122  | 117  | 117  |
| (WY) | 1995 | 1995 | 1995 | 1995 | 1995 | 1996 | 1996 | 1996 | 1996 | 1996 | 1996 | 1996 | 1995 |

## SUMMARY STATISTICS

## FOR 1995 CALENDAR YEAR

## FOR 1996 WATER YEAR

## WATER YEARS 1995 - 1996

| ANNUAL TOTAL             | 131141 | 123306 |       |
|--------------------------|--------|--------|-------|
| ANNUAL MEAN              | 359    | 337    | 345   |
| HIGHEST ANNUAL MEAN      |        |        | 353   |
| LOWEST ANNUAL MEAN       |        |        | 337   |
| HIGHEST DAILY MEAN       | 3710   | Apr 25 | 3710  |
| LOWEST DAILY MEAN        | 87     | Sep 4  | 79    |
| ANNUAL SEVEN-DAY MINIMUM | 88     | Aug 30 | 81    |
| INSTANTANEOUS PEAK FLOW  |        |        | 3300  |
| INSTANTANEOUS PEAK STAGE |        |        | 13.06 |
| INSTANTANEOUS LOW FLOW   |        |        | 77    |
| ANNUAL RUNOFF (CFSM)     | 1.40   | 1.31   | 1.34  |
| ANNUAL RUNOFF (INCHES)   | 18.98  | 17.85  | 18.24 |
| 10 PERCENT EXCEEDS       | 773    | 800    | 748   |
| 50 PERCENT EXCEEDS       | 215    | 186    | 205   |
| 90 PERCENT EXCEEDS       | 108    | 98     | 104   |

e Estimated

LOCATION.--Lat 31°20'33", long 89°16'46", 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.

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: Jun. 13-16, 19-22, 25-26 Jul. 8-14, 21-28, Aug. 13-14. 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) |
|---------|------|-----------------------------------|---------------------|--------|------|-----------------------------------|---------------------|
| Jan. 27 | 2115 | 13,500                            | 13.37               | Mar. 8 | 0530 | *13,900                           | *13.60              |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR    | APR    | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|-------|
| 1     | 543   | 727   | 737   | 1390  | 4810  | 2520   | 6290   | 2200  | 957   | 611   | 872   | 2070  |
| 2     | 531   | 1170  | 724   | 1810  | 4120  | 1850   | 5870   | 1830  | 947   | 594   | 1090  | 1470  |
| 3     | 548   | 1600  | 710   | 2420  | 8300  | 1600   | 4780   | 1580  | 1000  | 580   | 1500  | 1120  |
| 4     | 1040  | 1450  | 729   | 2990  | 9310  | 1430   | 3370   | 1460  | 987   | 572   | 1510  | 919   |
| 5     | 2520  | 1160  | 874   | 3030  | 8620  | 1310   | 2500   | 1380  | 908   | 563   | 1260  | 849   |
| 6     | 2740  | 1120  | 1200  | 2210  | 6740  | 2810   | 3870   | 1310  | 810   | 546   | 1100  | 767   |
| 7     | 2130  | 1150  | 2760  | 1730  | 4230  | 9370   | 4260   | 1250  | 797   | 546   | 1100  | 704   |
| 8     | 1030  | 1190  | 3530  | 1550  | 3200  | 13400  | 3090   | 1200  | 1180  | e550  | 1010  | 667   |
| 9     | 1030  | 1490  | 3560  | 1670  | 2700  | 11800  | 2380   | 1150  | 1030  | e570  | 951   | 631   |
| 10    | 836   | 1200  | 3880  | 1620  | 2430  | 12200  | 1980   | 1100  | 1010  | e610  | 939   | 629   |
| 11    | 743   | 1350  | 3850  | 1440  | 2190  | 10500  | 1750   | 1100  | 873   | e660  | 1210  | 588   |
| 12    | 693   | 3260  | 3510  | 1410  | 1980  | 5220   | 1600   | 1100  | 768   | e700  | 1130  | 571   |
| 13    | 662   | 3670  | 2730  | 1570  | 1790  | 3570   | 2450   | 1080  | e850  | e750  | e900  | 551   |
| 14    | 666   | 3520  | 1770  | 1800  | 1640  | 2710   | 5640   | 1060  | e1100 | e810  | e770  | 534   |
| 15    | 1000  | 2390  | 1380  | 1750  | 1550  | 2360   | 9600   | 1020  | e1400 | 937   | 716   | 522   |
| 16    | 958   | 1560  | 1230  | 1490  | 1480  | 2150   | 10200  | 991   | e1300 | 937   | 694   | 525   |
| 17    | 778   | 1230  | 1260  | 1380  | 1400  | 2770   | 7820   | 977   | 1220  | 948   | 682   | 541   |
| 18    | 681   | 1100  | 2690  | 1320  | 1340  | 2940   | 6100   | 946   | 960   | 998   | 665   | 588   |
| 19    | 632   | 995   | 8020  | 1310  | 1480  | 4940   | 4720   | 924   | e1000 | 1010  | 666   | 573   |
| 20    | 605   | 925   | 9910  | 1380  | 2770  | 3240   | 3620   | 898   | e1000 | 863   | 685   | 532   |
| 21    | 588   | 869   | 10600 | 1370  | 2760  | 2860   | 2780   | 872   | e940  | e830  | 624   | 732   |
| 22    | 575   | 815   | 10800 | 1390  | 2270  | 2520   | 2350   | 855   | e860  | e820  | 594   | 748   |
| 23    | 564   | 790   | 6270  | 1300  | 1860  | 2000   | 2580   | 844   | 812   | e810  | 571   | 718   |
| 24    | 581   | 804   | 3680  | 1530  | 1630  | 1760   | 4340   | 826   | 758   | e800  | 555   | 609   |
| 25    | 579   | 903   | 2550  | 2210  | 1470  | 2080   | 3950   | 802   | e830  | e790  | 546   | 545   |
| 26    | 555   | 917   | 2000  | 3380  | 1360  | 5170   | 3260   | 787   | e830  | e790  | 546   | 516   |
| 27    | 569   | 829   | 1760  | 11500 | 1290  | 6290   | 2520   | 765   | 836   | e800  | 567   | 1010  |
| 28    | 744   | 771   | 1610  | 12800 | 3070  | 7130   | 2250   | 755   | 758   | e810  | 613   | 1150  |
| 29    | 893   | 736   | 1490  | 10500 | 4140  | 6180   | 2170   | 872   | 681   | 813   | 651   | 723   |
| 30    | 820   | 725   | 1390  | 10200 | ---   | 5380   | 2450   | 988   | 638   | 791   | 812   | 684   |
| 31    | 794   | ---   | 1360  | 7500  | ---   | 5980   | ---    | 1020  | ---   | 843   | 1710  | ---   |
| TOTAL | 27988 | 40416 | 98564 | 98950 | 91930 | 146040 | 120540 | 33942 | 28040 | 23252 | 27239 | 22786 |
| MEAN  | 903   | 1347  | 3179  | 3192  | 3170  | 4711   | 4018   | 1095  | 935   | 750   | 879   | 760   |
| MAX   | 2740  | 3670  | 10800 | 12800 | 9310  | 13400  | 10200  | 2200  | 1400  | 1010  | 1710  | 2070  |
| MIN   | 531   | 725   | 710   | 1300  | 1290  | 1310   | 1600   | 755   | 638   | 546   | 546   | 516   |
| CFSM  | .52   | .77   | 1.82  | 1.83  | 1.81  | 2.70   | 2.30   | .63   | .53   | .43   | .50   | .43   |
| IN.   | .60   | .86   | 2.10  | 2.11  | 1.96  | 3.11   | 2.57   | .72   | .60   | .49   | .58   | .43   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1996, BY WATER YEAR (WY)

|      |      |      |       |       |       |       |       |       |      |       |      |      |
|------|------|------|-------|-------|-------|-------|-------|-------|------|-------|------|------|
| MEAN | 1002 | 1663 | 2976  | 4142  | 5126  | 5194  | 4812  | 2914  | 1424 | 1474  | 1176 | 1099 |
| 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  | 756   | 797   | 1090  | 1221  | 825   | 544   | 529  | 521   | 423  | 377  |
| (WY) | 1964 | 1955 | 1955  | 1957  | 1957  | 1955  | 1963  | 1963  | 1963 | 1952  | 1954 | 1954 |

| SUMMARY STATISTICS | FOR 1995 CALENDAR YEAR | FOR 1996 WATER YEAR | WATER YEARS 1938 - 1996 |
|--------------------|------------------------|---------------------|-------------------------|
|--------------------|------------------------|---------------------|-------------------------|

|                          |        |        |        |        |        |      |             |
|--------------------------|--------|--------|--------|--------|--------|------|-------------|
| ANNUAL TOTAL             | 745467 |        | 759687 |        |        |      |             |
| ANNUAL MEAN              | 2042   |        | 2076   |        |        | 2738 |             |
| HIGHEST ANNUAL MEAN      |        |        |        |        |        | 5121 | 1980        |
| LOWEST ANNUAL MEAN       |        |        |        |        |        | 1191 | 1963        |
| HIGHEST DAILY MEAN       | 18700  | Apr 25 | 13400  | Mar 8  | 110000 |      | Apr 15 1974 |
| LOWEST DAILY MEAN        | 438    | Sep 12 | 516    | Sep 26 | 195    |      | Sep 26 1938 |
| ANNUAL SEVEN-DAY MINIMUM | 441    | Sep 6  | 545    | Sep 14 | 327    |      | Oct 17 1963 |
| INSTANTANEOUS PEAK FLOW  |        |        | 13900  | Mar 8  | 121000 |      | Apr 15 1974 |
| INSTANTANEOUS PEAK STAGE |        |        | 13.60  | Mar 8  | 34.03  |      | Apr 15 1974 |
| INSTANTANEOUS LOW FLOW   |        |        | 503    | Sep 26 | 318    |      | Oct 22 1963 |
| ANNUAL RUNOFF (CFSM)     | 1.17   |        | 1.19   |        | 1.57   |      |             |
| ANNUAL RUNOFF (INCHES)   | 15.86  |        | 16.17  |        | 21.28  |      |             |
| 10 PERCENT EXCEEDS       | 4190   |        | 4740   |        | 6280   |      |             |
| 50 PERCENT EXCEEDS       | 1150   |        | 1160   |        | 1330   |      |             |
| 90 PERCENT EXCEEDS       | 569    |        | 602    |        | 566    |      |             |

e Estimated



## PASCAGOULA RIVER BASIN

02473000 LEAF RIVER AT HATTIESBURG, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY  | OCT  | NOV  | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1    | 1.81 | 2.21 | 2.27  | 3.12  | 6.96  | 4.58  | 8.30  | 3.95 | 2.29 | 1.80 | 2.22 | 4.00 |
| 2    | 1.77 | 2.94 | 2.25  | 3.70  | 6.28  | 3.76  | 7.94  | 3.47 | 2.27 | 1.76 | 2.57 | 3.20 |
| 3    | 1.81 | 3.61 | 2.22  | 4.47  | 9.90  | 3.43  | 6.93  | 3.14 | 2.37 | 1.73 | 3.20 | 2.68 |
| 4    | 2.65 | 3.40 | 2.26  | 5.11  | 10.66 | 3.18  | 5.51  | 2.97 | 2.35 | 1.71 | 3.21 | 2.36 |
| 5    | 4.72 | 2.96 | 2.52  | 5.16  | 10.18 | 3.01  | 4.57  | 2.86 | 2.22 | 1.69 | 2.85 | 2.24 |
| 6    | 4.97 | 2.89 | 3.05  | 4.21  | 8.67  | 4.76  | 6.01  | 2.74 | 2.06 | 1.65 | 2.59 | 2.09 |
| 7    | 4.25 | 2.94 | 5.05  | 3.60  | 6.39  | 10.55 | 6.42  | 2.65 | 2.04 | 1.65 | 2.58 | 1.98 |
| 8    | 3.26 | 3.02 | 5.91  | 3.36  | 5.34  | 13.32 | 5.22  | 2.57 | 2.69 | ---  | 2.43 | 1.91 |
| 9    | 2.71 | 3.46 | 5.94  | 3.52  | 4.79  | 12.31 | 4.42  | 2.50 | 2.46 | ---  | 2.33 | 1.84 |
| 10   | 2.37 | 3.03 | 6.25  | 3.45  | 4.48  | 12.57 | 3.93  | 2.43 | 2.43 | ---  | 2.31 | 1.84 |
| 11   | 2.20 | 3.25 | 6.22  | 3.19  | 4.20  | 11.43 | 3.63  | 2.42 | 2.20 | ---  | 2.75 | 1.76 |
| 12   | 2.11 | 5.58 | 5.88  | 3.16  | 3.93  | 7.33  | 3.43  | 2.42 | 2.02 | ---  | 2.62 | 1.74 |
| 13   | 2.06 | 6.02 | 5.04  | 3.38  | 3.68  | 5.72  | 4.39  | 2.38 | ---  | ---  | ---  | 1.69 |
| 14   | 2.07 | 5.87 | 3.87  | 3.70  | 3.48  | 4.81  | 7.65  | 2.36 | ---  | ---  | ---  | 1.66 |
| 15   | 2.67 | 4.62 | 3.32  | 3.63  | 3.36  | 4.40  | 10.81 | 2.29 | ---  | 2.37 | 1.91 | 1.64 |
| 16   | 2.60 | 3.57 | 3.10  | 3.28  | 3.25  | 4.14  | 11.29 | 2.25 | ---  | 2.37 | 1.87 | 1.65 |
| 17   | 2.28 | 3.08 | 3.13  | 3.11  | 3.14  | 4.87  | 9.53  | 2.23 | 2.80 | 2.38 | 1.86 | 1.69 |
| 18   | 2.09 | 2.89 | 4.87  | 3.02  | 3.05  | 5.06  | 8.00  | 2.18 | 2.39 | 2.46 | 1.83 | 1.79 |
| 19   | 2.01 | 2.71 | 9.71  | 3.01  | 3.25  | 7.08  | 6.64  | 2.15 | ---  | 2.48 | 1.83 | 1.76 |
| 20   | 1.96 | 2.60 | 11.08 | 3.12  | 4.87  | 5.38  | 5.51  | 2.11 | ---  | 2.23 | 1.87 | 1.68 |
| 21   | 1.92 | 2.50 | 11.52 | 3.10  | 4.86  | 4.97  | 4.62  | 2.07 | ---  | ---  | 1.75 | 2.07 |
| 22   | 1.89 | 2.41 | 11.65 | 3.12  | 4.29  | 4.58  | 4.12  | 2.05 | ---  | ---  | 1.70 | 2.12 |
| 23   | 1.87 | 2.36 | 8.24  | 2.99  | 3.78  | 3.96  | 4.38  | 2.03 | 2.16 | ---  | 1.66 | 2.07 |
| 24   | 1.91 | 2.39 | 5.84  | 3.33  | 3.46  | 3.64  | 6.25  | 2.01 | 2.07 | ---  | 1.62 | 1.85 |
| 25   | 1.90 | 2.56 | 4.61  | 4.22  | 3.25  | 4.04  | 5.85  | 1.97 | ---  | ---  | 1.61 | 1.72 |
| 26   | 1.86 | 2.59 | 3.96  | 5.50  | 3.08  | 7.28  | 5.14  | 1.95 | ---  | ---  | 1.61 | 1.66 |
| 27   | 1.89 | 2.44 | 3.65  | 12.08 | 2.98  | 8.30  | 4.33  | 1.91 | 2.23 | ---  | 1.66 | 2.46 |
| 28   | 2.23 | 2.34 | 3.43  | 12.94 | 5.13  | 9.01  | 4.01  | 1.90 | 2.09 | ---  | 1.76 | 2.77 |
| 29   | 2.51 | 2.27 | 3.27  | 11.50 | 6.30  | 8.20  | 3.90  | 2.11 | 1.95 | 2.12 | 1.84 | 2.07 |
| 30   | 2.38 | 2.25 | 3.13  | 11.28 | ---   | 7.50  | 4.24  | 2.33 | 1.86 | 2.07 | 2.15 | 1.99 |
| 31   | 2.33 | ---  | 3.08  | 9.26  | ---   | 8.03  | ---   | 2.38 | ---  | 2.16 | 3.50 | ---  |
| MEAN | 2.42 | 3.16 | 5.04  | 4.89  | 5.07  | 6.49  | 5.90  | 2.41 | ---  | ---  | ---  | 2.07 |
| MAX  | 4.97 | 6.02 | 11.65 | 12.94 | 10.66 | 13.32 | 11.29 | 3.95 | ---  | ---  | ---  | 4.00 |
| MIN  | 1.77 | 2.21 | 2.22  | 2.99  | 2.98  | 3.01  | 3.43  | 1.90 | ---  | ---  | ---  | 1.64 |

## PASCAGOULA RIVER BASIN

63

02473460 TALLAHALA CREEK AT WALDRUP, MS

LOCATION.--Lat 31°57'58", long 89°06'55", in 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.--No estimated daily discharge. Records good. 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) |
|---------|------|--------------------------------|------------------|--------|------|--------------------------------|------------------|
| Dec. 19 | 2115 | 2,050                          | 17.72            | Feb. 3 | 1015 | *3,330                         | *18.63           |
| Jan. 28 | 0345 | 2,640                          | 18.20            | Mar. 8 | 0715 | 2,660                          | 18.21            |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT    | NOV  | DEC  | JAN  | FEB  | MAR   | APR  | MAY   | JUN   | JUL   | AUG    | SEP   |
|-------|--------|------|------|------|------|-------|------|-------|-------|-------|--------|-------|
| 1     | 6.0    | 21   | 15   | 55   | 223  | 52    | 551  | 69    | 10    | 4.4   | 499    | 30    |
| 2     | 6.2    | 23   | 14   | 169  | 732  | 40    | 192  | 39    | 9.2   | 4.0   | 373    | 20    |
| 3     | 8.7    | 32   | 14   | 305  | 2640 | 29    | 113  | 29    | 12    | 3.6   | 187    | 17    |
| 4     | 174    | 39   | 32   | 130  | 1590 | 23    | 85   | 24    | 11    | 3.4   | 64     | 14    |
| 5     | 176    | 29   | 50   | 87   | 260  | 20    | 71   | 21    | 9.2   | 3.1   | 31     | 12    |
| 6     | 173    | 25   | 102  | 74   | 159  | 142   | 91   | 19    | 8.2   | 3.0   | 160    | 10    |
| 7     | 53     | 44   | 531  | 69   | 148  | 1400  | 117  | 17    | 7.4   | 2.7   | 91     | 8.6   |
| 8     | 31     | 141  | 253  | 69   | 126  | 2310  | 80   | 16    | 9.8   | 3.0   | 32     | 7.9   |
| 9     | 23     | 88   | 478  | 57   | 98   | 890   | 57   | 14    | 14    | 4.2   | 40     | 8.5   |
| 10    | 19     | 52   | 688  | 53   | 82   | 211   | 45   | 13    | 11    | 8.4   | 54     | 11    |
| 11    | 19     | 610  | 171  | 53   | 68   | 150   | 38   | 12    | 8.6   | 18    | 23     | 11    |
| 12    | 17     | 842  | 91   | 113  | 54   | 123   | 34   | 13    | 7.7   | 9.7   | 17     | 12    |
| 13    | 18     | 262  | 69   | 125  | 42   | 107   | 282  | 12    | 7.9   | 7.2   | 16     | 8.9   |
| 14    | 23     | 88   | 58   | 84   | 36   | 95    | 541  | 11    | 23    | 213   | 18     | 7.1   |
| 15    | 28     | 75   | 52   | 67   | 33   | 89    | 693  | 10    | 28    | 71    | 16     | 6.4   |
| 16    | 22     | 55   | 121  | 78   | 28   | 84    | 768  | 9.8   | 28    | 33    | 12     | 6.3   |
| 17    | 19     | 39   | 510  | 76   | 23   | 80    | 151  | 9.3   | 17    | 85    | 9.6    | 7.1   |
| 18    | 20     | 31   | 732  | 69   | 20   | 94    | 79   | 8.6   | 12    | 116   | 8.5    | 7.4   |
| 19    | 20     | 26   | 1770 | 89   | 120  | 140   | 73   | 8.3   | 9.9   | 47    | 8.0    | 7.0   |
| 20    | 18     | 21   | 1770 | 87   | 1190 | 101   | 61   | 8.2   | 8.8   | 18    | 7.8    | 6.2   |
| 21    | 17     | 18   | 499  | 67   | 651  | 76    | 48   | 8.0   | 8.1   | 11    | 7.3    | 5.9   |
| 22    | 17     | 15   | 147  | 60   | 116  | 66    | 38   | 7.3   | 9.0   | 8.4   | 6.4    | 6.6   |
| 23    | 17     | 15   | 106  | 56   | 70   | 61    | 153  | 6.8   | 12    | 7.7   | 5.9    | 6.7   |
| 24    | 18     | 21   | 86   | 270  | 49   | 57    | 200  | 6.1   | 9.7   | 6.3   | 5.7    | 5.8   |
| 25    | 24     | 34   | 74   | 458  | 36   | 499   | 71   | 6.2   | 8.6   | 6.9   | 5.8    | 5.6   |
| 26    | 20     | 26   | 66   | 260  | 29   | 1260  | 80   | 6.1   | 9.5   | 34    | 6.0    | 5.2   |
| 27    | 18     | 20   | 60   | 1720 | 26   | 615   | 86   | 5.8   | 8.0   | 72    | 7.1    | 5.5   |
| 28    | 41     | 17   | 55   | 2240 | 34   | 508   | 46   | 5.7   | 7.4   | 32    | 12     | 7.7   |
| 29    | 34     | 16   | 51   | 709  | 70   | 326   | 72   | 13    | 6.1   | 67    | 16     | 12    |
| 30    | 22     | 17   | 48   | 271  | ---  | 439   | 221  | 17    | 5.0   | 52    | 30     | 9.1   |
| 31    | 19     | ---  | 48   | 247  | ---  | 682   | ---  | 12    | ---   | 25    | 78     | ---   |
| TOTAL | 1120.9 | 2742 | 8761 | 8267 | 8753 | 10769 | 5137 | 457.2 | 336.1 | 980.0 | 1847.1 | 288.5 |
| MEAN  | 36.2   | 91.4 | 283  | 267  | 302  | 347   | 171  | 14.7  | 11.2  | 31.6  | 59.6   | 9.62  |
| MAX   | 176    | 842  | 1770 | 2240 | 2640 | 2310  | 768  | 69    | 28    | 213   | 499    | 30    |
| MIN   | 6.0    | 15   | 14   | 53   | 20   | 20    | 34   | 5.7   | 5.0   | 2.7   | 5.7    | 5.2   |
| CFSM  | .35    | .90  | 2.77 | 2.61 | 2.96 | 3.41  | 1.68 | .14   | .11   | .31   | .58    | .09   |
| IN.   | .41    | 1.00 | 3.20 | 3.02 | 3.19 | 3.93  | 1.87 | .17   | .12   | .36   | .67    | .11   |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1996, BY WATER YEAR (WY)

|      | MEAN | 54.1 | 145  | 207  | 328  | 416  | 380  | 294  | 141  | 50.6 | 72.7 | 34.3 | 29.6 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MAX  | 294  | 367  | 710  | 834  | 1119 | 880  | 737  | 739  | 221  | 429  | 165  | 263  |      |
| (WY) | 1986 | 1987 | 1983 | 1990 | 1990 | 1980 | 1991 | 1991 | 1983 | 1989 | 1982 | 1988 |      |
| MIN  | 4.83 | 6.79 | 14.3 | 30.5 | 115  | 131  | 35.8 | 11.8 | 2.90 | 6.81 | 4.94 | 4.79 |      |
| (WY) | 1988 | 1982 | 1991 | 1981 | 1995 | 1982 | 1986 | 1988 | 1988 | 1981 | 1986 | 1987 |      |

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1980 - 1996

|                          |         |         |       |
|--------------------------|---------|---------|-------|
| ANNUAL TOTAL             | 52264.8 | 49458.8 |       |
| ANNUAL MEAN              | 143     | 135     | 178   |
| HIGHEST ANNUAL MEAN      |         |         | 301   |
| LOWEST ANNUAL MEAN       |         |         | 86.6  |
| HIGHEST DAILY MEAN       | 3830    | Apr 24  | 2640  |
| LOWEST DAILY MEAN        | 3.5     | Aug 30  | 2.7   |
| ANNUAL SEVEN-DAY MINIMUM | 3.8     | Aug 28  | 3.3   |
| INSTANTANEOUS PEAK FLOW  |         |         | 3.3   |
| INSTANTANEOUS PEAK STAGE |         |         | 18.63 |
| INSTANTANEOUS LOW FLOW   |         |         | 2.4   |
| ANNUAL RUNOFF (CFSM)     | 1.40    |         | 1.32  |
| ANNUAL RUNOFF (INCHES)   | 19.06   |         | 18.04 |
| 10 PERCENT EXCEEDS       | 314     |         | 289   |
| 50 PERCENT EXCEEDS       | 29      |         | 32    |
| 90 PERCENT EXCEEDS       | 6.0     |         | 7.0   |

## PASCAGOULA RIVER BASIN

02473500 TALLAHALA CREEK AT LAUREL. MS

LOCATION.--Lat 31°40'50", long 89°06'55", in NE1/4 sec.8, T.8 N., R.11 W., St. Stephens Meridian, Jones County, Hydrologic Unit 03170005, on right bank at upstream side 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.--Estimated daily discharges: Oct. 28-29, July 1-16, Aug. 3-4. Records fair except for estimated daily discharges, which are poor. 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) |
|--------|------|-----------------------------------|---------------------|---------------------------------------|------|-----------------------------------|---------------------|
| Feb. 1 | 0130 | *1,830                            | *10.96              | No peaks greater than base discharge. |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT    | NOV  | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|--------|------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1     | 9.0    | 32   | 50    | 171   | 1710  | 447   | 1020  | 454  | 31   | e16  | 102  | 167  |
| 2     | 8.8    | 32   | 49    | 212   | 976   | 372   | 978   | 321  | 35   | e15  | 145  | 150  |
| 3     | 18     | 39   | 47    | 291   | 924   | 304   | 841   | 198  | 33   | e14  | e220 | 85   |
| 4     | 25     | 40   | 53    | 394   | 1010  | 257   | 443   | 144  | 28   | e13  | e280 | 62   |
| 5     | 34     | 36   | 75    | 340   | 1090  | 223   | 314   | 116  | 25   | e13  | 225  | 49   |
| 6     | 182    | 41   | 177   | 238   | 1360  | 301   | 372   | 99   | 24   | e12  | 135  | 39   |
| 7     | 198    | 48   | 360   | 198   | 1730  | 1050  | 423   | 88   | 25   | e12  | 113  | 33   |
| 8     | 148    | 63   | 590   | 181   | 1050  | 1340  | 391   | 82   | 25   | e12  | 233  | 28   |
| 9     | 71     | 113  | 735   | 164   | 510   | 1240  | 313   | 71   | 21   | e11  | 141  | 27   |
| 10    | 38     | 184  | 666   | 154   | 405   | 1360  | 242   | 64   | 22   | e11  | 89   | 23   |
| 11    | 25     | 301  | 655   | 146   | 348   | 1640  | 204   | 58   | 21   | e11  | 88   | 19   |
| 12    | 19     | 600  | 671   | 151   | 302   | 1570  | 177   | 54   | 25   | e17  | 88   | 18   |
| 13    | 14     | 643  | 382   | 185   | 265   | 545   | 308   | 49   | 50   | e35  | 55   | 20   |
| 14    | 12     | 665  | 223   | 240   | 234   | 357   | 571   | 45   | 61   | e70  | 44   | 20   |
| 15    | 11     | 481  | 173   | 210   | 216   | 294   | 895   | 44   | 35   | e120 | 38   | 21   |
| 16    | 28     | 206  | 146   | 177   | 205   | 262   | 976   | 41   | 52   | e200 | 32   | 21   |
| 17    | 20     | 144  | 163   | 169   | 194   | 269   | 962   | 37   | 82   | 108  | 30   | 18   |
| 18    | 15     | 109  | 561   | 182   | 181   | 294   | 877   | 34   | 66   | 61   | 26   | 15   |
| 19    | 13     | 86   | 979   | 179   | 271   | 366   | 484   | 32   | 49   | 106  | 21   | 14   |
| 20    | 11     | 73   | 1040  | 184   | 644   | 334   | 320   | 29   | 46   | 143  | 18   | 12   |
| 21    | 8.7    | 62   | 1070  | 192   | 804   | 290   | 285   | 27   | 33   | 88   | 17   | 14   |
| 22    | 7.6    | 56   | 1140  | 178   | 869   | 223   | 223   | 26   | 26   | 52   | 17   | 14   |
| 23    | 8.3    | 56   | 1240  | 157   | 938   | 185   | 252   | 24   | 23   | 35   | 15   | 14   |
| 24    | 10     | 56   | 1040  | 184   | 608   | 169   | 323   | 22   | 26   | 25   | 14   | 15   |
| 25    | 12     | 72   | 386   | 314   | 359   | 344   | 443   | 21   | 27   | 18   | 12   | 14   |
| 26    | 9.2    | 72   | 282   | 685   | 284   | 604   | 308   | 18   | 32   | 17   | 11   | 14   |
| 27    | 7.0    | 77   | 237   | 1330  | 239   | 823   | 220   | 16   | 26   | 15   | 14   | 24   |
| 28    | e10    | 72   | 207   | 1320  | 684   | 946   | 264   | 23   | 22   | 30   | 14   | 19   |
| 29    | e15    | 59   | 187   | 1250  | 726   | 1040  | 246   | 33   | 19   | 96   | 21   | 18   |
| 30    | 24     | 53   | 170   | 1410  | ---   | 1130  | 351   | 18   | 17   | 67   | 57   | 18   |
| 31    | 36     | ---  | 159   | 1680  | ---   | 1040  | ---   | 23   | ---  | 102  | 117  | ---  |
| TOTAL | 1047.6 | 4571 | 13913 | 12866 | 19136 | 19619 | 14026 | 2311 | 1007 | 1545 | 2432 | 1005 |
| MEAN  | 33.8   | 152  | 449   | 415   | 660   | 633   | 468   | 74.5 | 33.6 | 49.8 | 78.5 | 33.5 |
| MAX   | 198    | 665  | 1240  | 1680  | 1730  | 1640  | 1020  | 454  | 82   | 200  | 280  | 167  |
| MIN   | 7.0    | 32   | 47    | 146   | 181   | 169   | 177   | 16   | 17   | 11   | 11   | 12   |
| CFSM  | .14    | .64  | 1.89  | 1.74  | 2.77  | 2.66  | 1.96  | .31  | .14  | .21  | .33  | .14  |
| IN.   | .16    | .71  | 2.17  | 2.01  | 2.99  | 3.07  | 2.19  | .36  | .16  | .24  | .38  | .14  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1996, BY WATER YEAR (WY)

|      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 62.7 | 175  | 398  | 588  | 760  | 803  | 706  | 344  | 119  | 133  | 77.9 | 64.9 |
| MAX  | 433  | 1386 | 1967 | 2286 | 2478 | 1741 | 2366 | 1868 | 440  | 1604 | 378  | 381  |
| (WY) | 1986 | 1949 | 1962 | 1947 | 1961 | 1980 | 1980 | 1953 | 1961 | 1940 | 1944 | 1988 |
| MIN  | 3.07 | 6.17 | 30.9 | 29.9 | 61.2 | 86.4 | 53.9 | 15.4 | 8.77 | 11.7 | 9.47 | 5.69 |
| (WY) | 1964 | 1957 | 1957 | 1957 | 1957 | 1957 | 1963 | 1963 | 1988 | 1963 | 1951 | 1954 |

| SUMMARY STATISTICS | FOR 1995 CALENDAR YEAR | FOR 1996 WATER YEAR | WATER YEARS 1938 - 1996 |
|--------------------|------------------------|---------------------|-------------------------|
|--------------------|------------------------|---------------------|-------------------------|

|                          |         |        |         |        |       |             |
|--------------------------|---------|--------|---------|--------|-------|-------------|
| ANNUAL TOTAL             | 98962.1 |        | 93478.6 |        |       |             |
| ANNUAL MEAN              | 271     |        | 255     |        | 351   |             |
| HIGHEST ANNUAL MEAN      |         |        |         |        | 726   | 1980        |
| LOWEST ANNUAL MEAN       |         |        |         |        | 109   | 1957        |
| HIGHEST DAILY MEAN       | 4290    | Apr 26 | 1730    | Feb 7  | 18400 | Apr 14 1974 |
| LOWEST DAILY MEAN        | 6.1     | Sep 11 | 7.0     | Oct 27 | 1.8   | Oct 31 1963 |
| ANNUAL SEVEN-DAY MINIMUM | 7.0     | Sep 11 | 9.0     | Oct 21 | 2.0   | Oct 26 1963 |
| INSTANTANEOUS PEAK FLOW  |         |        | 1830    | Feb 1  | 23300 | Apr 14 1974 |
| INSTANTANEOUS PEAK STAGE |         |        | 10.96   | Feb 1  | 23.28 | Apr 14 1974 |
| INSTANTANEOUS LOW FLOW   |         |        | 6.3     | Oct 27 | 1.8   | Nov 3 1952  |
| ANNUAL RUNOFF (CFSM)     | 1.14    |        | 1.07    |        | 1.47  |             |
| ANNUAL RUNOFF (INCHES)   | 15.47   |        | 14.61   |        | 20.01 |             |
| 10 PERCENT EXCEEDS       | 691     |        | 871     |        | 950   |             |
| 50 PERCENT EXCEEDS       | 99      |        | 100     |        | 99    |             |
| 90 PERCENT EXCEEDS       | 11      |        | 15      |        | 14    |             |

e Estimated

## 02474500 TALLAHALA CREEK NEAR RUNNELSTOWN, MS

LOCATION.--Lat 31°19'57", long 89°06'46", in 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 11.9 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: Oct. 14-30, Apr. 1-16, May 30. 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) |
|--------|------|-----------------------------------|---------------------|---------------------------------------|------|-----------------------------------|---------------------|
| Mar. 8 | 0700 | *4,390                            | *14.27              | No peaks greater than base discharge. |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT  | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1     | 67   | 149   | 166   | 412   | 3070  | 1620  | e3000 | 807  | 101  | 77   | 218  | 438  |
| 2     | 68   | 309   | 161   | 673   | 3030  | 984   | e2600 | 775  | 100  | 71   | 229  | 541  |
| 3     | 69   | 482   | 157   | 672   | 2640  | 782   | e2000 | 605  | 113  | 70   | 352  | 399  |
| 4     | 70   | 279   | 159   | 723   | 2300  | 642   | e1250 | 437  | 110  | 68   | 722  | 267  |
| 5     | 146  | 239   | 199   | 788   | 2260  | 548   | e800  | 351  | 106  | 66   | 617  | 196  |
| 6     | 279  | 196   | 296   | 701   | 2300  | 1110  | e700  | 300  | 96   | 62   | 432  | 214  |
| 7     | 462  | 191   | 954   | 537   | 2550  | 2980  | e700  | 266  | 91   | 60   | 381  | 199  |
| 8     | 446  | 263   | 1220  | 458   | 2820  | 4270  | e750  | 241  | 201  | 75   | 552  | 122  |
| 9     | 362  | 290   | 1570  | 416   | 1930  | 3690  | e750  | 223  | 148  | 62   | 466  | 116  |
| 10    | 243  | 418   | 1740  | 389   | 1070  | 3090  | e700  | 211  | 106  | 61   | 313  | 105  |
| 11    | 167  | 506   | 1440  | 376   | 890   | 2770  | e650  | 197  | 94   | 59   | 266  | 102  |
| 12    | 126  | 1030  | 1330  | 395   | 766   | 2840  | e650  | 184  | 88   | 57   | 317  | 87   |
| 13    | 104  | 1480  | 1160  | 417   | 669   | 2600  | e800  | 170  | 112  | 57   | 265  | 78   |
| 14    | e95  | 1520  | 753   | 456   | 589   | 1270  | e1550 | 162  | 178  | 91   | 188  | 73   |
| 15    | e90  | 1340  | 528   | 503   | 534   | 881   | e2100 | 155  | 271  | 96   | 148  | 73   |
| 16    | e140 | 877   | 438   | 474   | 490   | 761   | e2250 | 148  | 228  | 132  | 131  | 78   |
| 17    | e120 | 521   | 405   | 415   | 459   | 1070  | 2240  | 143  | 140  | 174  | 114  | 78   |
| 18    | e110 | 385   | 964   | 394   | 432   | 1120  | 1950  | 140  | 187  | 246  | 101  | 89   |
| 19    | e100 | 312   | 2460  | 398   | 443   | 2130  | 1650  | 134  | 173  | 192  | 94   | 79   |
| 20    | e95  | 263   | 2480  | 402   | 1550  | 1310  | 1120  | 125  | 171  | 183  | 87   | 71   |
| 21    | e90  | 231   | 2300  | 410   | 1730  | 933   | 818   | 117  | 155  | 217  | 80   | 101  |
| 22    | e90  | 201   | 2150  | 418   | 1630  | 760   | 695   | 112  | 131  | 177  | 75   | 104  |
| 23    | e85  | 186   | 2120  | 391   | 1540  | 629   | 682   | 106  | 155  | 130  | 73   | 87   |
| 24    | e85  | 194   | 2150  | 537   | 1380  | 544   | 1100  | 102  | 129  | 106  | 73   | 72   |
| 25    | e80  | 213   | 1610  | 656   | 957   | 662   | 985   | 97   | 105  | 89   | 70   | 72   |
| 26    | e80  | 244   | 803   | 819   | 658   | 1750  | 999   | 93   | 129  | 79   | 71   | 71   |
| 27    | e85  | 244   | 618   | 3510  | 544   | 1730  | 755   | 89   | 105  | 72   | 69   | 82   |
| 28    | e90  | 218   | 532   | 3990  | 1250  | 2170  | 561   | 86   | 101  | 69   | 66   | 258  |
| 29    | e105 | 200   | 474   | 3460  | 2120  | 2120  | 579   | 119  | 95   | 69   | 120  | 187  |
| 30    | e120 | 179   | 431   | 3100  | ---   | 2650  | 1130  | e220 | 85   | 115  | 189  | 104  |
| 31    | 132  | ---   | 406   | 3160  | ---   | 2990  | ---   | 117  | ---  | 212  | 200  | ---  |
| TOTAL | 4401 | 13160 | 32174 | 30450 | 42601 | 53406 | 36514 | 7032 | 4004 | 3294 | 7079 | 4543 |
| MEAN  | 142  | 439   | 1038  | 982   | 1469  | 1723  | 1217  | 227  | 133  | 106  | 228  | 151  |
| MAX   | 462  | 1520  | 2480  | 3990  | 3070  | 4270  | 3000  | 807  | 271  | 246  | 722  | 541  |
| MIN   | 67   | 149   | 157   | 376   | 432   | 544   | 561   | 86   | 85   | 57   | 66   | 71   |
| CFSM  | .23  | .72   | 1.70  | 1.60  | 2.40  | 2.81  | 1.99  | .37  | .22  | .17  | .37  | .25  |
| IN.   | .27  | .80   | 1.96  | 1.85  | 2.59  | 3.25  | 2.22  | .43  | .24  | .20  | .43  | .28  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1996, BY WATER YEAR (WY)

|      | MEAN | 224  | 492  | 1068 | 1527 | 1919 | 2005 | 1815 | 1019 | 374  | 438  | 273  | 258 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| MAX  | 936  | 2635 | 4400 | 4627 | 5750 | 4291 | 6595 | 4728 | 1464 | 4294 | 933  | 1134 |     |
| (WY) | 1958 | 1949 | 1962 | 1947 | 1961 | 1948 | 1980 | 1991 | 1991 | 1940 | 1944 | 1957 |     |
| MIN  | 32.5 | 39.4 | 97.1 | 131  | 273  | 343  | 162  | 77.1 | 71.0 | 70.3 | 56.4 | 36.8 |     |
| (WY) | 1964 | 1964 | 1955 | 1957 | 1957 | 1957 | 1963 | 1963 | 1988 | 1963 | 1951 | 1954 |     |

| SUMMARY STATISTICS       | FOR 1995 CALENDAR YEAR | FOR 1996 WATER YEAR | WATER YEARS 1940 - 1996 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 248644                 | 238658              |                         |
| ANNUAL MEAN              | 681                    | 652                 | 942                     |
| HIGHEST ANNUAL MEAN      |                        |                     | 1949                    |
| LOWEST ANNUAL MEAN       |                        |                     | 330                     |
| HIGHEST DAILY MEAN       | 6200                   | 4270                | 29600                   |
| LOWEST DAILY MEAN        | 42                     | 57                  | 29                      |
| ANNUAL SEVEN-DAY MINIMUM | 43                     | 62                  | 31                      |
| INSTANTANEOUS PEAK FLOW  |                        | 4390                | 32800                   |
| INSTANTANEOUS PEAK STAGE |                        | 14.27               | 30.07                   |
| INSTANTANEOUS LOW FLOW   |                        | 56                  | 29                      |
| ANNUAL RUNOFF (CFSM)     | 1.11                   | 1.07                | 1.54                    |
| ANNUAL RUNOFF (INCHES)   | 15.11                  | 14.51               | 20.91                   |
| 10 PERCENT EXCEEDS       | 2070                   | 2110                | 2620                    |
| 50 PERCENT EXCEEDS       | 309                    | 275                 | --5                     |
| 90 PERCENT EXCEEDS       | 69                     | 79                  |                         |

e Estimated

02474560 LEAF RIVER NEAR NEW AUGUSTA, MS

LOCATION.--Lat 31°13'17", long 89°03'11", 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.--Estimated daily discharges: Mar. 26-27, Apr. 13-17, May 16-21, May 29-30. Records fair except for estimated discharges, which are poor. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC    | JAN    | FEB    | MAR    | APR    | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 1     | 733   | 1130  | 1020   | 2120   | 9160   | 5370   | 9400   | 3310  | 1170  | 1010  | 1480  | 1620  |
| 2     | 719   | 1370  | 1010   | 2340   | 7570   | 3570   | 8820   | 2900  | 1160  | 1010  | 1470  | 1630  |
| 3     | 725   | 2390  | 997    | 2880   | 8750   | 2920   | 8060   | 2520  | 1160  | 1000  | 1660  | 1420  |
| 4     | 866   | 2040  | 1010   | 3300   | 10900  | 2560   | 6680   | 2170  | 1170  | 1010  | 1880  | 1240  |
| 5     | 2010  | 1700  | 1050   | 3800   | 10600  | 2320   | 5080   | 1970  | 1160  | 1010  | 1900  | 1130  |
| 6     | 2810  | 1530  | 1300   | 3330   | 9740   | 2520   | 5520   | 1830  | 1110  | 1010  | 1760  | 1070  |
| 7     | 2950  | 1520  | 2290   | 2570   | 7440   | 7880   | 7470   | 1710  | 1080  | 1010  | 1680  | 1050  |
| 8     | 2210  | 1570  | 4300   | 2210   | 6260   | 13700  | 6070   | 1600  | 1260  | 1030  | 1730  | 969   |
| 9     | 1700  | 1690  | 4600   | 2100   | 5300   | 15300  | 4870   | 1540  | 1270  | 1050  | 1710  | 930   |
| 10    | 1360  | 1830  | 5240   | 2180   | 4060   | 14300  | 4110   | 1470  | 1180  | 1080  | 1630  | 898   |
| 11    | 1150  | 1750  | 5080   | 2050   | 3560   | 14000  | 3640   | 1430  | 1140  | 1080  | 1650  | 881   |
| 12    | 1020  | 2920  | 4860   | 1930   | 3130   | 10900  | 3360   | 1410  | 1080  | 1080  | 1730  | 842   |
| 13    | 957   | 4570  | 4260   | 1980   | 2880   | 7640   | e5000  | 1360  | 1060  | 1150  | 1630  | 813   |
| 14    | 999   | 4900  | 3250   | 2130   | 2720   | 5480   | e7500  | 1320  | 1140  | 1180  | 1510  | 790   |
| 15    | 1020  | 4190  | 2290   | 2350   | 2510   | 4370   | e10000 | 1280  | 1240  | 1280  | 1420  | 766   |
| 16    | 1240  | 3110  | 1950   | 2150   | 2320   | 3970   | e11000 | e1250 | 1390  | 1250  | 1370  | 750   |
| 17    | 1110  | 2190  | 1810   | 2010   | 2210   | 4520   | e11000 | e1200 | 1310  | 1280  | 1330  | 737   |
| 18    | 991   | 1810  | 3170   | 1930   | 2120   | 5150   | 8740   | e1200 | 1210  | 1350  | 1300  | 755   |
| 19    | 921   | 1660  | 8040   | 1780   | 2220   | 7070   | 7050   | e1150 | 1210  | 1370  | 1270  | 778   |
| 20    | 865   | 1520  | 10700  | 1830   | 4050   | 6510   | 5340   | e1100 | 1240  | 1340  | 1260  | 768   |
| 21    | 836   | 1350  | 11200  | 1830   | 4850   | 4870   | 4120   | e1100 | 1180  | 1300  | 1230  | 809   |
| 22    | 814   | 1200  | 11700  | 1860   | 4300   | 4520   | 3440   | 1050  | 1130  | 1270  | 1190  | 939   |
| 23    | 793   | 1180  | 10600  | 1800   | 3850   | 3870   | 3320   | 1050  | 1090  | 1240  | 1150  | 891   |
| 24    | 777   | 1180  | 6690   | 1980   | 3400   | 3420   | 4650   | 1050  | 1080  | 1230  | 1130  | 860   |
| 25    | 790   | 1170  | 5040   | 2540   | 2970   | 3770   | 5060   | 1050  | 1040  | 1210  | 1100  | 814   |
| 26    | 778   | 1260  | 3430   | 3290   | 2520   | e6300  | 4550   | 1050  | 1060  | 1240  | 1090  | 787   |
| 27    | 781   | 1270  | 2840   | 9500   | 2300   | e8400  | 3750   | 1050  | 1070  | 1220  | 1060  | 785   |
| 28    | 841   | 1170  | 2440   | 14500  | 3890   | 9100   | 3080   | 1050  | 1070  | 1220  | 1060  | 1170  |
| 29    | 1050  | 1070  | 2250   | 14500  | 6970   | 9060   | 2890   | e1100 | 1040  | 1250  | 1060  | 993   |
| 30    | 1140  | 1030  | 2160   | 12600  | ---    | 8670   | 3420   | e1200 | 1020  | 1330  | 1130  | 869   |
| 31    | 1090  | ---   | 2100   | 12300  | ---    | 9610   | ---    | 1200  | ---   | 1360  | 1220  | ---   |
| TOTAL | 36046 | 57270 | 128677 | 123670 | 142550 | 211640 | 176990 | 45670 | 34520 | 36450 | 43790 | 28754 |
| MEAN  | 1163  | 1909  | 4151   | 3989   | 4916   | 6827   | 5900   | 1473  | 1151  | 1176  | 1413  | 958   |
| MAX   | 2950  | 4900  | 11700  | 14500  | 10900  | 15300  | 11000  | 3310  | 1390  | 1370  | 1900  | 1630  |
| MIN   | 719   | 1030  | 997    | 1780   | 2120   | 2320   | 2890   | 1050  | 1020  | 1000  | 1060  | 737   |
| CFSM  | .46   | .75   | 1.63   | 1.57   | 1.93   | 2.69   | 2.32   | .58   | .45   | .46   | .56   | .38   |
| IN.   | .53   | .84   | 1.88   | 1.81   | 2.09   | 3.10   | 2.59   | .67   | .51   | .53   | .64   | .42   |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1996, BY WATER YEAR (WY)

|      | 1984 | 1985 | 1986 | 1987  | 1988  | 1989  | 1990 | 1991  | 1992 | 1993 | 1994 | 1995 | 1996 |
|------|------|------|------|-------|-------|-------|------|-------|------|------|------|------|------|
| MEAN | 1679 | 3206 | 3881 | 7082  | 7691  | 7136  | 5220 | 4514  | 2411 | 2199 | 1586 | 1324 |      |
| MAX  | 3904 | 6466 | 7355 | 14920 | 21510 | 14330 | 9662 | 18250 | 6097 | 6709 | 2516 | 3485 |      |
| (WY) | 1985 | 1994 | 1987 | 1990  | 1990  | 1987  | 1991 | 1991  | 1991 | 1993 | 1985 | 1988 |      |
| MIN  | 713  | 912  | 1373 | 2389  | 3268  | 3645  | 1624 | 1131  | 757  | 916  | 802  | 759  |      |
| (WY) | 1988 | 1991 | 1988 | 1988  | 1995  | 1988  | 1986 | 1988  | 1988 | 1995 | 1986 | 1995 |      |

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1984 - 1996

|                          | 1995 CALENDAR YEAR | 1996 WATER YEAR | 1984 - 1996 |
|--------------------------|--------------------|-----------------|-------------|
| ANNUAL TOTAL             | 1069870            | 1066027         |             |
| ANNUAL MEAN              | 2931               | 2913            | 4021        |
| HIGHEST ANNUAL MEAN      |                    |                 | 6332        |
| LOWEST ANNUAL MEAN       |                    |                 | 2328        |
| HIGHEST DAILY MEAN       | 19300              | 15300           | 74000       |
| LOWEST DAILY MEAN        | 632                | 719             | 590         |
| ANNUAL SEVEN-DAY MINIMUM | 639                | 763             | 609         |
| INSTANTANEOUS PEAK FLOW  |                    | 15600           | 74700       |
| INSTANTANEOUS PEAK STAGE |                    | 15.88           | 30.71       |
| INSTANTANEOUS LOW FLOW   |                    | 694             | 590         |
| ANNUAL RUNOFF (CFSM)     | 1.15               | 1.15            | 1.58        |
| ANNUAL RUNOFF (INCHES)   | 15.66              | 15.60           | 21.49       |
| 10 PERCENT EXCEEDS       | 6760               | 7480            | 9160        |
| 50 PERCENT EXCEEDS       | 1810               | 1630            | 2170        |
| 90 PERCENT EXCEEDS       | 809                | 984             | 886         |

e Estimated



## PASCAGOULA RIVER BASIN

67

02474560 LEAF RIVER NEAR NEW AUGUSTA, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY  | OCT  | NOV  | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1    | 2.05 | 2.83 | 2.70  | 4.15  | 11.07 | 7.74  | 11.28 | 5.60 | 2.80 | 2.49 | 2.97 | 3.21 |
| 2    | 2.04 | 3.19 | 2.68  | 4.44  | 9.76  | 5.89  | 10.70 | 5.12 | 2.78 | 2.47 | 2.95 | 3.23 |
| 3    | 2.06 | 4.61 | 2.66  | 5.10  | 10.74 | 5.15  | 9.72  | 4.66 | 2.78 | 2.46 | 3.23 | 2.93 |
| 4    | 2.32 | 4.15 | 2.67  | 5.59  | 12.42 | 4.72  | 8.26  | 4.23 | 2.79 | 2.46 | 3.53 | 2.65 |
| 5    | 4.01 | 3.69 | 2.75  | 6.15  | 12.26 | 4.42  | 6.76  | 3.96 | 2.77 | 2.45 | 3.55 | 2.48 |
| 6    | 5.06 | 3.44 | 3.15  | 5.63  | 11.55 | 4.60  | 7.15  | 3.77 | 2.70 | 2.45 | 3.34 | 2.39 |
| 7    | 5.24 | 3.43 | 4.49  | 4.73  | 9.64  | 9.84  | 8.99  | 3.60 | 2.64 | 2.44 | 3.22 | 2.36 |
| 8    | 4.33 | 3.50 | 6.82  | 4.27  | 8.59  | 14.53 | 7.70  | 3.44 | 2.93 | 2.47 | 3.28 | 2.24 |
| 9    | 3.63 | 3.68 | 7.14  | 4.13  | 7.68  | 15.67 | 6.55  | 3.35 | 2.94 | 2.50 | 3.24 | 2.17 |
| 10   | 3.14 | 3.88 | 7.77  | 4.23  | 6.43  | 14.97 | 5.77  | 3.25 | 2.81 | 2.54 | 3.12 | 2.13 |
| 11   | 2.82 | 3.77 | 7.62  | 4.07  | 5.88  | 14.72 | 5.27  | 3.20 | 2.75 | 2.52 | 3.15 | 2.10 |
| 12   | 2.61 | 5.23 | 7.40  | 3.90  | 5.39  | 12.35 | 4.95  | 3.16 | 2.64 | 2.51 | 3.25 | 2.04 |
| 13   | 2.50 | 7.08 | 6.78  | 3.97  | 5.11  | 9.22  | ---   | 3.09 | 2.61 | 2.62 | 3.11 | 1.99 |
| 14   | 2.57 | 7.41 | 5.68  | 4.17  | 4.91  | 7.14  | ---   | 3.03 | 2.75 | 2.66 | 2.94 | 1.96 |
| 15   | 2.61 | 6.68 | 4.53  | 4.45  | 4.65  | 6.04  | ---   | 2.96 | 2.90 | 2.82 | 2.82 | 1.92 |
| 16   | 2.97 | 5.50 | 4.07  | 4.19  | 4.41  | 5.62  | ---   | ---  | 3.13 | 2.75 | 2.74 | 1.89 |
| 17   | 2.77 | 4.37 | 3.89  | 4.01  | 4.27  | 6.18  | ---   | ---  | 3.01 | 2.79 | 2.70 | 1.88 |
| 18   | 2.57 | 3.87 | 5.55  | 3.90  | 4.16  | 6.83  | 10.74 | ---  | 2.85 | 2.90 | 2.65 | 1.92 |
| 19   | 2.45 | 3.66 | 10.19 | 3.69  | 4.29  | 8.69  | 9.30  | ---  | 2.86 | 2.92 | 2.61 | 1.96 |
| 20   | 2.35 | 3.45 | 12.33 | 3.76  | 6.39  | 8.11  | 7.72  | ---  | 2.90 | 2.86 | 2.60 | 1.95 |
| 21   | 2.30 | 3.20 | 12.67 | 3.77  | 7.24  | 6.55  | 6.48  | ---  | 2.81 | 2.79 | 2.56 | 2.03 |
| 22   | 2.27 | 2.98 | 13.03 | 3.80  | 6.68  | 6.20  | 5.75  | 2.60 | 2.72 | 2.75 | 2.50 | 2.27 |
| 23   | 2.23 | 2.94 | 12.20 | 3.73  | 6.20  | 5.51  | 5.61  | 2.60 | 2.67 | 2.69 | 2.45 | 2.19 |
| 24   | 2.20 | 2.94 | 8.97  | 3.97  | 5.71  | 5.02  | 7.03  | 2.60 | 2.64 | 2.65 | 2.41 | 2.14 |
| 25   | 2.23 | 2.93 | 7.42  | 4.69  | 5.22  | 5.40  | 7.44  | 2.60 | 2.59 | 2.62 | 2.38 | 2.06 |
| 26   | 2.20 | 3.08 | 5.73  | 5.57  | 4.67  | ---   | 6.93  | 2.59 | 2.60 | 2.66 | 2.36 | 2.01 |
| 27   | 2.22 | 3.10 | 5.05  | 11.26 | 4.39  | ---   | 6.09  | 2.60 | 2.61 | 2.61 | 2.33 | 2.01 |
| 28   | 2.33 | 2.94 | 4.56  | 15.07 | 6.11  | 11.01 | 5.33  | 2.60 | 2.62 | 2.61 | 2.32 | 2.65 |
| 29   | 2.69 | 2.79 | 4.32  | 15.05 | 9.23  | 10.96 | 5.12  | ---  | 2.56 | 2.65 | 2.34 | 2.37 |
| 30   | 2.83 | 2.72 | 4.21  | 13.76 | ---   | 10.49 | 5.71  | ---  | 2.52 | 2.77 | 2.45 | 2.16 |
| 31   | 2.74 | ---  | 4.13  | 13.52 | ---   | 11.45 | ---   | 2.83 | ---  | 2.81 | 2.60 | ---  |
| MEAN | 2.79 | 3.90 | 6.23  | 5.89  | 7.07  | ---   | ---   | ---  | 2.76 | 2.64 | 2.83 | 2.24 |
| MAX  | 5.24 | 7.41 | 13.03 | 15.07 | 12.42 | ---   | ---   | ---  | 3.13 | 2.92 | 3.55 | 3.23 |
| MIN  | 2.04 | 2.72 | 2.66  | 3.69  | 4.16  | ---   | ---   | ---  | 2.52 | 2.44 | 2.32 | 1.88 |

## PASCAGOULA RIVER BASIN

02474600 BOGUE HOMO NEAR RICHTON, MS

LOCATION.--Lat 31°24'12", long 89°01'18", in 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: Mar. 31 - May 21. Records good except estimated daily discharges, which are poor. Flow slightly regulated by Lake Bogue Homo, 36 mi upstream.

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) |      |      |       |        |       |
|--------------------------------------------------------------------------------------------------|-------|-----------------------------------|---------------------|---------------------------------------|-------|-----------------------------------|---------------------|------|------|-------|--------|-------|
| Mar. 8                                                                                           | 1415  | *3,280                            | *9.82               | No peaks greater than base discharge. |       |                                   |                     |      |      |       |        |       |
| DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996<br>DAILY MEAN VALUES |       |                                   |                     |                                       |       |                                   |                     |      |      |       |        |       |
| DAY                                                                                              | OCT   | NOV                               | DEC                 | JAN                                   | FEB   | MAR                               | APR                 | MAY  | JUN  | JUL   | AUG    | SEP   |
| 1                                                                                                | 8.1   | 44                                | 67                  | 141                                   | 1970  | 843                               | e1440               | e290 | 31   | 13    | 32     | 30    |
| 2                                                                                                | 7.5   | 146                               | 55                  | 288                                   | 1580  | 857                               | e930                | e230 | 24   | 12    | 76     | 51    |
| 3                                                                                                | 11    | 435                               | 40                  | 513                                   | 1460  | 1010                              | e688                | e190 | 20   | 11    | 380    | 47    |
| 4                                                                                                | 25    | 200                               | 37                  | 485                                   | 1130  | 976                               | e568                | e160 | 17   | 10    | 194    | 45    |
| 5                                                                                                | 41    | 109                               | 40                  | 411                                   | 882   | 561                               | e516                | e140 | 15   | 9.6   | 98     | 28    |
| 6                                                                                                | 32    | 71                                | 49                  | 292                                   | 849   | 606                               | e585                | e120 | 16   | 9.3   | 51     | 22    |
| 7                                                                                                | 22    | 68                                | 235                 | 210                                   | 852   | 1900                              | e810                | e104 | 18   | 8.9   | 33     | 34    |
| 8                                                                                                | 22    | 120                               | 580                 | 175                                   | 672   | 3060                              | e499                | e91  | 100  | 9.2   | 25     | 21    |
| 9                                                                                                | 17    | 87                                | 567                 | 154                                   | 475   | 2980                              | e344                | e81  | 73   | 13    | 21     | 28    |
| 10                                                                                               | 14    | 66                                | 708                 | 129                                   | 386   | 2500                              | e282                | e73  | 35   | 17    | 19     | 16    |
| 11                                                                                               | 12    | 101                               | 698                 | 122                                   | 337   | 2070                              | e240                | e67  | 21   | 13    | 41     | 17    |
| 12                                                                                               | 12    | 184                               | 654                 | 134                                   | 291   | 1720                              | e234                | e61  | 17   | 11    | 40     | 17    |
| 13                                                                                               | 11    | 217                               | 581                 | 182                                   | 257   | 1170                              | e340                | e56  | 16   | 9.7   | 25     | 12    |
| 14                                                                                               | 14    | 257                               | 411                 | 215                                   | 225   | 612                               | e636                | e51  | 20   | 16    | 18     | 11    |
| 15                                                                                               | 11    | 328                               | 238                 | 205                                   | 197   | 438                               | e1140               | e47  | 23   | 13    | 15     | 9.7   |
| 16                                                                                               | 13    | 313                               | 182                 | 180                                   | 179   | 374                               | e1010               | e42  | 62   | 46    | 13     | 9.8   |
| 17                                                                                               | 13    | 180                               | 176                 | 157                                   | 178   | 584                               | e688                | e36  | 48   | 37    | 12     | 8.8   |
| 18                                                                                               | 12    | 124                               | 885                 | 144                                   | 176   | 1290                              | e533                | e31  | 34   | 22    | 11     | 7.8   |
| 19                                                                                               | 11    | 96                                | 1890                | 142                                   | 175   | 2040                              | e413                | e27  | 33   | 16    | 11     | 7.5   |
| 20                                                                                               | 12    | 79                                | 1750                | 149                                   | 742   | 1860                              | e310                | e23  | 38   | 15    | 10     | 7.5   |
| 21                                                                                               | 12    | 68                                | 1140                | 166                                   | 852   | 1160                              | e275                | e21  | 35   | 14    | 9.8    | 12    |
| 22                                                                                               | 11    | 58                                | 1050                | 157                                   | 835   | 889                               | e261                | 18   | 29   | 12    | 8.8    | 17    |
| 23                                                                                               | 11    | 56                                | 1040                | 145                                   | 906   | 616                               | e240                | 17   | 74   | 10    | 8.5    | 14    |
| 24                                                                                               | 13    | 63                                | 895                 | 315                                   | 980   | 410                               | e412                | 16   | 92   | 9.4   | 8.3    | 10    |
| 25                                                                                               | 12    | 56                                | 477                 | 625                                   | 770   | 462                               | e275                | 15   | 47   | 8.8   | 7.9    | 9.0   |
| 26                                                                                               | 10    | 95                                | 254                 | 495                                   | 402   | 951                               | e240                | 14   | 31   | 14    | 8.2    | 8.2   |
| 27                                                                                               | 11    | 96                                | 201                 | 2310                                  | 272   | 1080                              | e220                | 13   | 22   | 18    | 7.8    | 16    |
| 28                                                                                               | 18    | 91                                | 174                 | 2610                                  | 1130  | 1400                              | e196                | 14   | 18   | 20    | 8.8    | 45    |
| 29                                                                                               | 17    | 77                                | 152                 | 1810                                  | 1250  | 1390                              | e182                | 27   | 16   | 18    | 11     | 63    |
| 30                                                                                               | 18    | 65                                | 138                 | 1850                                  | ---   | 1790                              | e168                | 27   | 13   | 16    | 14     | 43    |
| 31                                                                                               | 30    | ---                               | 126                 | 2230                                  | ---   | e2200                             | ---                 | 24   | ---  | 20    | 14     | ---   |
| TOTAL                                                                                            | 483.6 | 3950                              | 15490               | 17141                                 | 20410 | 39799                             | 14675               | 2126 | 1038 | 471.9 | 1232.1 | 667.3 |
| MEAN                                                                                             | 15.6  | 132                               | 500                 | 553                                   | 704   | 1284                              | 489                 | 68.6 | 34.6 | 15.2  | 39.7   | 22.2  |
| MAX                                                                                              | 41    | 435                               | 1890                | 2610                                  | 1970  | 3060                              | 1440                | 290  | 100  | 46    | 380    | 63    |
| MIN                                                                                              | 7.5   | 44                                | 37                  | 122                                   | 175   | 374                               | 168                 | 13   | 13   | 8.8   | 7.8    | 7.5   |
| CFSM                                                                                             | .05   | .38                               | 1.45                | 1.61                                  | 2.05  | 3.73                              | 1.42                | .20  | .10  | .04   | .12    | .06   |
| IN.                                                                                              | .05   | .43                               | 1.68                | 1.85                                  | 2.21  | 4.30                              | 1.59                | .23  | .11  | .05   | .13    | .07   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1996, BY WATER YEAR (WY)

|      | MEAN | 145  | 270  | 670  | 1047 | 1054 | 1076 | 989  | 576  | 173  | 147  | 93.8 | 159 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| MAX  | 881  | 1284 | 2118 | 2287 | 2545 | 2180 | 2796 | 2359 | 533  | 682  | 537  | 1115 |     |
| (WY) | 1976 | 1987 | 1974 | 1990 | 1990 | 1979 | 1980 | 1991 | 1991 | 1989 | 1975 | 1974 |     |
| MIN  | 10.4 | 12.8 | 26.0 | 87.5 | 277  | 295  | 93.7 | 65.0 | 15.8 | 15.2 | 15.2 | 8.62 |     |
| (WY) | 1991 | 1982 | 1988 | 1981 | 1989 | 1986 | 1986 | 1988 | 1985 | 1996 | 1972 | 1995 |     |

## SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1971 - 1996

|                          |          |          |             |
|--------------------------|----------|----------|-------------|
| ANNUAL TOTAL             | 130864.9 | 117483.9 | 531         |
| ANNUAL MEAN              | 359      | 321      | 911         |
| HIGHEST ANNUAL MEAN      |          |          | 201         |
| LOWEST ANNUAL MEAN       |          |          | 19900       |
| HIGHEST DAILY MEAN       | 4060     | 3060     | Dec 28 1973 |
| LOWEST DAILY MEAN        | 7.0      | 7.5      | Aug 1 1981  |
| ANNUAL SEVEN-DAY MINIMUM | 7.4      | 8.3      | Jul 30 1981 |
| INSTANTANEOUS PEAK FLOW  |          | 3280     | Dec 28 1973 |
| INSTANTANEOUS PEAK STAGE |          | 9.82     | Dec 28 1973 |
| INSTANTANEOUS LOW FLOW   |          | 7.0      | Aug 1 1981  |
| ANNUAL RUNOFF (CFSM)     | 1.04     | .93      | 1.54        |
| ANNUAL RUNOFF (INCHES)   | 14.15    | 12.70    | 20.97       |
| 10 PERCENT EXCEEDS       | 1050     | 989      | 1450        |
| 50 PERCENT EXCEEDS       | 91       | 73       | 166         |
| 90 PERCENT EXCEEDS       | 11       | 11       | 19          |

e Estimated

LOCATION.--Lat 31°06'10", long 88°48'30", in 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 Oktibbee Creek, and 14.6 mi upstream from confluence with Chickasawhay River.

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

REMARKS.--Estimated daily discharges: Dec. 11-12, Dec. 18 - Jan. 23, Jan. 27 - Mar. 1, May 9 - Jun. 8, 10-11.  
Records good except for estimated daily discharges, which are poor. 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.

| DAY   | OCT   | NOV   | DEC    | JAN    | FEB    | MAR    | APR    | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 1     | 815   | 1350  | 1450   | e2900  | e14000 | e12000 | 16700  | 4670  | e1600 | 989   | 1120  | 1570  |
| 2     | 800   | 1470  | 1420   | e3200  | e11000 | 7890   | 15100  | 4010  | e1600 | 941   | 1390  | 2390  |
| 3     | 834   | 3020  | 1400   | e3800  | e12000 | 5850   | 13100  | 3610  | e1600 | 908   | 1680  | 2300  |
| 4     | 1100  | 3760  | 1380   | e4500  | e15000 | 5020   | 10800  | 3170  | e1600 | 877   | 2250  | 1830  |
| 5     | 1850  | 2920  | 1420   | e5200  | e14500 | 4360   | 8230   | 2810  | e1600 | 861   | 2530  | 1540  |
| 6     | 2920  | 2380  | 1540   | e4500  | e13000 | 3730   | 7300   | 2580  | e1550 | 838   | 2290  | 1330  |
| 7     | 3220  | 2250  | 1960   | e4000  | e11000 | 7200   | 10500  | 2400  | e1500 | 818   | 1910  | 1250  |
| 8     | 2900  | 2680  | 4130   | e3100  | e9000  | 15500  | 9320   | 2260  | e1800 | 806   | 1690  | 1210  |
| 9     | 2190  | 2410  | 5710   | e2900  | e7500  | 20100  | 7030   | e2150 | 2140  | 856   | 1720  | 1040  |
| 10    | 1770  | 2480  | 6350   | e2950  | e6000  | 21800  | 5700   | e2050 | e1750 | 1270  | 1560  | 969   |
| 11    | 1460  | 2370  | e7100  | e2900  | e5300  | 21600  | 4850   | e2000 | e1500 | 961   | 1370  | 933   |
| 12    | 1270  | 2830  | e6900  | e2700  | e4600  | 20900  | 4210   | e2000 | 1340  | 872   | 1500  | 907   |
| 13    | 1160  | 4930  | 6260   | e2700  | e4200  | 15900  | 4020   | e1900 | 1220  | 871   | 1540  | 884   |
| 14    | 1140  | 5880  | 5240   | e2900  | e3900  | 9750   | 5990   | e1850 | 1340  | 963   | 1320  | 889   |
| 15    | 1130  | 5760  | 3770   | e3200  | e3600  | 6080   | 10900  | e1800 | 1590  | 1110  | 1130  | 883   |
| 16    | 1270  | 4640  | 2930   | e3000  | e3400  | 4890   | 14600  | e1750 | 1890  | 1290  | 1010  | 848   |
| 17    | 1350  | 3450  | 2580   | e2800  | e3150  | 6110   | 16200  | e1700 | 2020  | 1320  | 948   | 815   |
| 18    | 1220  | 2650  | e5700  | e2600  | e3000  | 9210   | 14100  | e1700 | 1870  | 1270  | 917   | 801   |
| 19    | 1110  | 2240  | e10000 | e2450  | e3100  | 9600   | 11400  | e1600 | 1590  | 1350  | 879   | 824   |
| 20    | 1040  | 1990  | e14500 | e2500  | e5000  | 11500  | 8920   | e1550 | 1740  | 1290  | 861   | 832   |
| 21    | 996   | 1830  | e15000 | e2500  | e6600  | 8650   | 6550   | e1550 | 1660  | 1180  | 880   | 843   |
| 22    | 975   | 1710  | e16000 | e2500  | e6200  | 7050   | 5070   | e1500 | 1570  | 1080  | 835   | 1140  |
| 23    | 954   | 1600  | e15000 | e2450  | e5400  | 6390   | 4750   | e1450 | 1400  | 1000  | 797   | 1110  |
| 24    | 930   | 1630  | e10000 | 2870   | e4800  | 5320   | 5920   | e1450 | 1360  | 980   | 770   | 1020  |
| 25    | 926   | 1720  | e7500  | 3980   | e4200  | 5090   | 6980   | e1450 | 1300  | 868   | 752   | 917   |
| 26    | 934   | 1690  | e5000  | 4550   | e3600  | 7420   | 6310   | e1450 | 1230  | 824   | 757   | 838   |
| 27    | 922   | 1760  | e4000  | e14000 | e3200  | 10300  | 5490   | e1450 | 1210  | 880   | 757   | 819   |
| 28    | 938   | 1680  | e3500  | e18000 | e5000  | 13700  | 4420   | e1450 | 1200  | 821   | 758   | 1140  |
| 29    | 1050  | 1580  | e3150  | e20000 | e8000  | 14100  | 3880   | e1550 | 1140  | 805   | 807   | 1710  |
| 30    | 1270  | 1510  | e3000  | e18000 | ---    | 14500  | 4070   | e1700 | 1050  | 878   | 904   | 1240  |
| 31    | 1300  | ---   | e2950  | e17500 | ---    | 17100  | ---    | e1700 | ---   | 983   | 1050  | ---   |
| TOTAL | 41744 | 78170 | 176840 | 171150 | 199250 | 328610 | 252410 | 64260 | 45960 | 30760 | 38682 | 34822 |
| MEAN  | 1347  | 2606  | 5705   | 5521   | 6871   | 10600  | 8414   | 2073  | 1532  | 992   | 1248  | 1161  |
| MAX   | 3220  | 5880  | 16000  | 20000  | 15000  | 21800  | 16700  | 4670  | 2140  | 1350  | 2530  | 2390  |

|      |      |       |       |       |       |       |       |       |      |       |      |      |
|------|------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|------|
| MEAN | 1760 | 3004  | 6041  | 8302  | 10360 | 10880 | 9999  | 6096  | 2726 | 2863  | 2137 | 2115 |
| MAX  | 6282 | 13580 | 25930 | 21120 | 30530 | 24300 | 39220 | 25390 | 9257 | 19680 | 5920 | 7901 |
| (WY) | 1976 | 1949  | 1962  | 1947  | 1961  | 1948  | 1980  | 1991  | 1959 | 1940  | 1949 | 1979 |
| MIN  | 515  | 604   | 879   | 1343  | 2008  | 2362  | 1461  | 912   | 869  | 949   | 731  | 590  |
| (WY) | 1964 | 1964  | 1955  | 1956  | 1957  | 1955  | 1963  | 1963  | 1963 | 1952  | 1963 | 1954 |

|                          |         |        |         |            |        |             |
|--------------------------|---------|--------|---------|------------|--------|-------------|
| ANNUAL TOTAL             | 1630666 |        | 1462658 |            |        |             |
| ANNUAL MEAN              | 4468    |        | 3996    |            | 5499   |             |
| HIGHEST ANNUAL MEAN      |         |        |         |            | 11060  | 1949        |
| LOWEST ANNUAL MEAN       |         |        |         |            | 2024   | 1963        |
| HIGHEST DAILY MEAN       | 25600   | Apr 28 | 21800   | Mar 10     | 126000 | Feb 26 1961 |
| LOWEST DAILY MEAN        | 736     | Sep 12 | 752     | Aug 25     | 482    | Oct 24 1963 |
| ANNUAL SEVEN-DAY MINIMUM | 745     | Sep 9  | 771     | Aug 23     | 488    | Oct 20 1963 |
| INSTANTANEOUS PEAK FLOW  |         |        | 21900a  | Mar 10     | 128000 | Feb 26 1961 |
| INSTANTANEOUS PEAK STAGE |         |        | 17.34a  | Mar 10     | 31.64  | Feb 26 1961 |
| INSTANTANEOUS LOW FLOW   |         |        | 744     | Aug 25, 26 | 478    | Oct 22 1963 |
| ANNUAL RUNOFF (CFSM)     | 1.28    |        | 1.14    |            | 1.57   |             |
| ANNUAL RUNOFF (INCHES)   | 17.36   |        | 15.57   |            | 21.38  |             |
| 10 PERCENT EXCEEDS       | 10300   |        | 10800   |            | 13800  |             |
| 50 PERCENT EXCEEDS       | 2460    |        | 2010    |            | 2640   |             |
| 90 PERCENT EXCEEDS       | 943     |        | 882     |            | 930    |             |

a May have been higher during period of no gage-height record January 28-31.

## PASCAGOULA RIVER BASIN

02475500 CHUNKY RIVER NEAR CHUNKY, MS

LOCATION.--Lat 32°19'35", long 88°54'35", in SE1/4 SW1/4 sec.30, 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: Aug. 15-20. 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 (ft <sup>3</sup> /s) | Gage Height (ft) | Date   | Time | Discharge (ft <sup>3</sup> /s) | Gage Height (ft) |
|---------|------|--------------------------------|------------------|--------|------|--------------------------------|------------------|
| Jan. 28 | 1700 | 6,720                          | 14.62            | Mar. 8 | 1515 | *8,270                         | *16.48           |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT  | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1     | 30   | 79    | 189   | 259   | 1460  | 278   | 1270  | 270  | 100  | 47   | 125  | 81   |
| 2     | 28   | 93    | 189   | 560   | 2240  | 258   | 886   | 230  | 86   | 44   | 191  | 81   |
| 3     | 467  | 223   | 181   | 1140  | 3300  | 239   | 591   | 202  | 89   | 41   | 199  | 77   |
| 4     | 1240 | 437   | 184   | 763   | 3760  | 222   | 505   | 183  | 89   | 38   | 117  | 72   |
| 5     | 1250 | 231   | 359   | 451   | 2710  | 210   | 523   | 166  | 84   | 36   | 164  | 69   |
| 6     | 696  | 149   | 335   | 380   | 1040  | 1780  | 493   | 153  | 73   | 34   | 166  | 66   |
| 7     | 312  | 161   | 652   | 606   | 874   | 3870  | 487   | 143  | 66   | 33   | 122  | 63   |
| 8     | 165  | 332   | 624   | 629   | 776   | 7340  | 433   | 133  | 73   | 32   | 120  | 58   |
| 9     | 118  | 360   | 1370  | 440   | 653   | 5390  | 383   | 121  | 129  | 34   | 92   | 54   |
| 10    | 94   | 231   | 1840  | 368   | 575   | 2390  | 347   | 113  | 159  | 35   | 160  | 58   |
| 11    | 79   | 1160  | 1470  | 351   | 521   | 813   | 323   | 117  | 98   | 39   | 93   | 57   |
| 12    | 71   | 1890  | 644   | 705   | 457   | 625   | 305   | 115  | 77   | 42   | 68   | 59   |
| 13    | 66   | 1600  | 407   | 785   | 399   | 526   | 547   | 107  | 67   | 55   | 59   | 58   |
| 14    | 66   | 695   | 345   | 512   | 365   | 463   | 1270  | 97   | 121  | 63   | 59   | 55   |
| 15    | 68   | 503   | 308   | 398   | 343   | 428   | 2290  | 94   | 565  | 65   | e64  | 52   |
| 16    | 70   | 369   | 332   | 346   | 326   | 393   | 2520  | 86   | 495  | 76   | e56  | 49   |
| 17    | 64   | 286   | 634   | 320   | 301   | 402   | 1730  | 80   | 187  | 146  | e51  | 55   |
| 18    | 58   | 240   | 2150  | 315   | 281   | 505   | 775   | 78   | 114  | 169  | e45  | 60   |
| 19    | 53   | 213   | 3400  | 338   | 287   | 827   | 586   | 72   | 108  | 97   | e41  | 60   |
| 20    | 50   | 193   | 4630  | 342   | 504   | 863   | 507   | 66   | 111  | 70   | e37  | 60   |
| 21    | 47   | 177   | 3600  | 293   | 571   | 502   | 443   | 64   | 222  | 57   | 33   | 58   |
| 22    | 44   | 159   | 1330  | 276   | 421   | 394   | 396   | 62   | 122  | 47   | 31   | 57   |
| 23    | 43   | 156   | 670   | 268   | 372   | 342   | 548   | 61   | 94   | 41   | 30   | 55   |
| 24    | 42   | 245   | 517   | 699   | 336   | 307   | 922   | 59   | 82   | 37   | 30   | 53   |
| 25    | 43   | 313   | 436   | 1490  | 299   | 1390  | 539   | 55   | 76   | 45   | 29   | 51   |
| 26    | 44   | 252   | 379   | 1320  | 273   | 2730  | 384   | 53   | 68   | 217  | 28   | 49   |
| 27    | 46   | 204   | 344   | 3280  | 253   | 3120  | 375   | 55   | 64   | 221  | 28   | 48   |
| 28    | 82   | 181   | 317   | 5910  | 257   | 2230  | 334   | 67   | 59   | 145  | 31   | 48   |
| 29    | 119  | 172   | 288   | 5090  | 275   | 1330  | 274   | 195  | 57   | 244  | 39   | 51   |
| 30    | 101  | 177   | 265   | 2590  | ---   | 973   | 270   | 206  | 52   | 197  | 58   | 54   |
| 31    | 80   | ---   | 253   | 1440  | ---   | 1260  | ---   | 144  | ---  | 119  | 89   | ---  |
| TOTAL | 5736 | 11481 | 28642 | 32664 | 24229 | 42400 | 21256 | 3647 | 3787 | 2566 | 2455 | 1768 |
| MEAN  | 185  | 383   | 924   | 1054  | 835   | 1368  | 709   | 118  | 126  | 82.8 | 79.2 | 58.9 |
| MAX   | 1250 | 1890  | 4630  | 5910  | 3760  | 7340  | 2520  | 270  | 565  | 244  | 199  | 81   |
| MIN   | 28   | 79    | 181   | 259   | 253   | 210   | 270   | 53   | 52   | 32   | 28   | 48   |
| CFSM  | .50  | 1.04  | 2.50  | 2.86  | 2.26  | 3.71  | 1.92  | .32  | .34  | .22  | .21  | .16  |
| IN.   | .58  | 1.16  | 2.89  | 3.29  | 2.44  | 4.27  | 2.14  | .37  | .38  | .26  | .25  | .18  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1996, BY WATER YEAR (WY)

|      | 100  | 284  | 549  | 854  | 1091 | 1144 | 969  | 473  | 193  | 222  | 122  | 92.3 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 100  | 284  | 549  | 854  | 1091 | 1144 | 969  | 473  | 193  | 222  | 122  | 92.3 |
| MAX  | 589  | 1854 | 2741 | 2561 | 3449 | 2890 | 2850 | 2072 | 617  | 1671 | 725  | 751  |
| (WY) | 1978 | 1949 | 1962 | 1947 | 1990 | 1980 | 1979 | 1991 | 1983 | 1940 | 1975 | 1979 |
| MIN  | 4.01 | 16.8 | 74.0 | 143  | 241  | 185  | 113  | 41.5 | 18.3 | 16.1 | 10.5 | 3.08 |
| (WY) | 1964 | 1964 | 1939 | 1956 | 1954 | 1955 | 1967 | 1963 | 1988 | 1952 | 1954 | 1954 |

| SUMMARY STATISTICS       | FOR 1995 CALENDAR YEAR | FOR 1996 WATER YEAR | WATER YEARS 1938 - 1996 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 185336                 | 180631              |                         |
| ANNUAL MEAN              | 508                    | 494                 | 505                     |
| HIGHEST ANNUAL MEAN      |                        |                     | 1028                    |
| LOWEST ANNUAL MEAN       |                        |                     | 171                     |
| HIGHEST DAILY MEAN       | 7080                   | Apr 24              | 26400                   |
| LOWEST DAILY MEAN        | 17                     | Sep 19              | 1.6                     |
| ANNUAL SEVEN-DAY MINIMUM | 18                     | Sep 13              | 1.8                     |
| INSTANTANEOUS PEAK FLOW  |                        |                     | 40900                   |
| INSTANTANEOUS PEAK STAGE |                        |                     | 26.64                   |
| INSTANTANEOUS LOW FLOW   |                        |                     | 1.6                     |
| ANNUAL RUNOFF (CFSM)     | 1.38                   | 1.34                | 1.37                    |
| ANNUAL RUNOFF (INCHES)   | 18.68                  | 18.21               | 18.59                   |
| 10 PERCENT EXCEEDS       | 1460                   | 1270                | 1270                    |
| 50 PERCENT EXCEEDS       | 205                    | 198                 | 162                     |
| 90 PERCENT EXCEEDS       | 30                     | 47                  | 25                      |

e Estimated

a Also occurred on Aug. 26-27.

## 02476500 SOWASHEE CREEK AT MERIDIAN, MS

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 bridge 0.6 mi downstream from Southern Railway System bridge, and 9.4 mi upstream from mouth.

DRAINAGE AREA.--52.1 mi<sup>2</sup>, 49.0 prior to Nov 19, 1992.

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

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

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.

REMARKS.--Estimated daily discharges: Oct. 27-31, May 3-9. Records good except for estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1900, 29.4 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 26.6 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 26.0 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.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 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) |
|---------|------|--------------------------------|------------------|--------|------|--------------------------------|------------------|
| Jan. 27 | 0845 | 1,520                          | 7.41             | Mar. 6 | 0430 | 1,470                          | 7.35             |
| Feb. 2  | 1815 | 1,310                          | 7.19             | Mar. 7 | 1230 | *2,120                         | *7.77            |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT   | NOV    | DEC  | JAN  | FEB  | MAR  | APR  | MAY   | JUN   | JUL   | AUG    | SEP   |
|-------|-------|--------|------|------|------|------|------|-------|-------|-------|--------|-------|
| 1     | 2.7   | 8.2    | 13   | 53   | 141  | 48   | 116  | 33    | 13    | 4.7   | 52     | 24    |
| 2     | 2.7   | 8.9    | 11   | 159  | 1060 | 43   | 92   | 26    | 13    | 4.5   | 157    | 37    |
| 3     | 306   | 19     | 12   | 75   | 498  | 38   | 77   | e22   | 15    | 4.5   | 269    | 52    |
| 4     | 148   | 11     | 17   | 49   | 218  | 36   | 69   | e19   | 13    | 4.0   | 164    | 23    |
| 5     | 276   | 7.4    | 18   | 40   | 170  | 35   | 58   | e17   | 10    | 3.9   | 160    | 14    |
| 6     | 43    | 7.6    | 56   | 48   | 169  | 1090 | 65   | e16   | 9.6   | 3.3   | 107    | 11    |
| 7     | 15    | 47     | 58   | 56   | 164  | 1640 | 57   | e14   | 20    | 3.7   | 35     | 16    |
| 8     | 10    | 21     | 41   | 38   | 142  | 534  | 47   | e13   | 70    | 3.1   | 22     | 12    |
| 9     | 8.2   | 11     | 290  | 35   | 119  | 355  | 39   | e12   | 26    | 4.0   | 18     | 14    |
| 10    | 6.8   | 44     | 96   | 33   | 105  | 286  | 34   | 11    | 16    | 4.4   | 15     | 25    |
| 11    | 5.8   | 333    | 63   | 74   | 88   | 241  | 32   | 11    | 12    | 3.6   | 17     | 13    |
| 12    | 5.3   | 85     | 49   | 135  | 66   | 207  | 31   | 11    | 10    | 3.3   | 51     | 11    |
| 13    | 5.1   | 42     | 45   | 72   | 59   | 181  | 151  | 9.9   | 29    | 27    | 21     | 9.3   |
| 14    | 11    | 41     | 48   | 56   | 60   | 169  | 207  | 9.9   | 27    | 11    | 14     | 8.8   |
| 15    | 8.1   | 25     | 40   | 46   | 57   | 163  | 574  | 9.7   | 16    | 38    | 12     | 8.3   |
| 16    | 5.7   | 20     | 52   | 51   | 45   | 142  | 213  | 9.2   | 12    | 20    | 9.9    | 48    |
| 17    | 5.0   | 17     | 71   | 53   | 43   | 143  | 127  | 8.9   | 9.1   | 7.0   | 9.1    | 29    |
| 18    | 4.6   | 15     | 449  | 78   | 44   | 137  | 97   | 9.5   | 8.2   | 5.2   | 8.2    | 13    |
| 19    | 4.9   | 14     | 463  | 86   | 110  | 146  | 86   | 10    | 7.9   | 4.6   | 7.7    | 9.9   |
| 20    | 4.6   | 12     | 153  | 50   | 158  | 96   | 68   | 9.4   | 30    | 5.0   | 7.2    | 8.7   |
| 21    | 4.3   | 12     | 103  | 45   | 92   | 80   | 57   | 8.6   | 12    | 4.4   | 7.2    | 8.3   |
| 22    | 4.3   | 11     | 80   | 42   | 80   | 68   | 47   | 8.0   | 8.2   | 4.1   | 7.4    | 8.1   |
| 23    | 4.2   | 40     | 63   | 44   | 73   | 57   | 72   | 8.2   | 7.1   | 7.8   | 7.0    | 7.6   |
| 24    | 4.7   | 47     | 50   | 238  | 52   | 49   | 54   | 7.7   | 6.7   | 6.0   | 6.6    | 7.3   |
| 25    | 4.2   | 21     | 43   | 114  | 44   | 770  | 38   | 9.1   | 6.6   | 14    | 6.5    | 7.2   |
| 26    | 5.2   | 18     | 37   | 453  | 43   | 300  | 38   | 8.4   | 10    | 25    | 6.4    | 7.5   |
| 27    | e5.9  | 19     | 34   | 1110 | 44   | 240  | 32   | 7.7   | 6.1   | 22    | 6.9    | 12    |
| 28    | e7.5  | 16     | 30   | 311  | 58   | 279  | 26   | 193   | 5.4   | 38    | 8.3    | 17    |
| 29    | e11   | 15     | 28   | 224  | 62   | 176  | 50   | 108   | 5.1   | 16    | 11     | 13    |
| 30    | e11   | 14     | 27   | 195  | ---  | 204  | 61   | 26    | 4.9   | 8.9   | 19     | 9.2   |
| 31    | e9.4  | ---    | 33   | 183  | ---  | 169  | ---  | 16    | ---   | 7.7   | 10     | ---   |
| TOTAL | 950.2 | 1002.1 | 2573 | 4246 | 4064 | 8122 | 2715 | 682.2 | 438.9 | 318.7 | 1252.4 | 484.2 |
| MEAN  | 30.7  | 33.4   | 83.0 | 137  | 140  | 262  | 90.5 | 22.0  | 14.6  | 10.3  | 40.4   | 16.1  |
| MAX   | 306   | 333    | 463  | 1110 | 1060 | 1640 | 574  | 193   | 70    | 38    | 269    | 52    |
| MIN   | 2.7   | 7.4    | 11   | 33   | 43   | 35   | 26   | 7.7   | 4.9   | 3.1   | 6.4    | 7.2   |
| CFSM  | .59   | .64    | 1.59 | 2.63 | 2.69 | 5.03 | 1.74 | .42   | .28   | .20   | .78    | .31   |
| IN.   | .68   | .72    | 1.84 | 3.03 | 2.90 | 5.80 | 1.94 | .49   | .31   | .23   | .89    | .35   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1996, BY WATER YEAR (WY)

|      | MEAN | 20.0 | 29.6 | 80.9 | 108  | 142  | 169  | 128  | 58.7 | 30.9 | 31.3 | 19.4 | 16.3 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 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 | 20.2 | 26.8 | 6.09 | 6.68 | 3.27 | 2.33 | .74  | .48  |      |
| (WY) | 1955 | 1957 | 1955 | 1956 | 1957 | 1955 | 1986 | 1988 | 1988 | 1986 | 1954 | 1954 |      |

## SUMMARY STATISTICS

## FOR 1995 CALENDAR YEAR

## FOR 1996 WATER YEAR

## WATER YEARS 1951 - 1996

|                          |         |         |        |
|--------------------------|---------|---------|--------|
| ANNUAL TOTAL             | 30974.9 | 26848.7 |        |
| ANNUAL MEAN              | 84.9    | 73.4    | 69.1   |
| HIGHEST ANNUAL MEAN      |         |         | 130    |
| LOWEST ANNUAL MEAN       |         |         | 19.4   |
| HIGHEST DAILY MEAN       | 2110    | Mar 8   | 5770   |
| LOWEST DAILY MEAN        | 1.2     | Sep 3   | .20    |
| ANNUAL SEVEN-DAY MINIMUM | 1.3     | Aug 29  | .27    |
| INSTANTANEOUS PEAK FLOW  |         |         | 9530   |
| INSTANTANEOUS PEAK STAGE |         |         | 32.04a |
| INSTANTANEOUS LOW FLOW   |         |         | .20b   |
| ANNUAL RUNOFF (CFSM)     | 1.63    | 1.41    | 1.33   |
| ANNUAL RUNOFF (INCHES)   | 22.12   | 19.17   | 18.02  |
| 10 PERCENT EXCEEDS       | 184     | 169     | 138    |
| 50 PERCENT EXCEEDS       | 20      | 26      | 19     |
| 90 PERCENT EXCEEDS       | 2.3     | 5.9     | 2.3    |

e Estimated

a At site 0.4 mi upstream.

b Also many days from July to September 1957.



## PASCAGOULA RIVER BASIN

02476600 OKATIBBEE CREEK AT ARUNDEL, MS

LOCATION.--Lat 32°17'55", long 88°45'15", in SE1/4SW1/4 sec.3, T.5 N., R.15 E., Choctaw Meridian, Lauderdale County, Hydrologic Unit 03170001, on right bank, 100 ft downstream from Hognose Creek, 400 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: Oct. 1-4, Dec. 21-31, Jan. 1-17, Feb. 3-8, Mar. 6-11, 23-25, May 10-14. Records fair 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 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT  | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1     | e84  | 101   | 228   | e384  | 1240  | 393   | 1050  | 251  | 113  | 65   | 159  | 537  |
| 2     | e72  | 110   | 173   | e634  | 2800  | 300   | 1020  | 214  | 107  | 62   | 210  | 603  |
| 3     | e125 | 215   | 168   | e942  | e3000 | 254   | 964   | 198  | 106  | 62   | 704  | 662  |
| 4     | e290 | 229   | 183   | e700  | e2000 | 241   | 704   | 186  | 99   | 60   | 379  | 598  |
| 5     | 1100 | 304   | 183   | e520  | e1820 | 231   | 536   | 176  | 91   | 59   | 592  | 558  |
| 6     | 476  | 299   | 334   | e570  | e1730 | e750  | 511   | 168  | 84   | 60   | 317  | 544  |
| 7     | 234  | 494   | 402   | e695  | e1650 | e4480 | 494   | 161  | 88   | 72   | 175  | 548  |
| 8     | 182  | 410   | 257   | e720  | e1580 | e2700 | 448   | 155  | 395  | 80   | 132  | 533  |
| 9     | 157  | 245   | 1080  | e610  | 1520  | e1620 | 413   | 147  | 252  | 64   | 125  | 587  |
| 10    | 139  | 154   | 746   | e525  | 1480  | e1340 | 379   | e143 | 156  | 66   | 106  | 505  |
| 11    | 129  | 1200  | 386   | e515  | 1440  | e1250 | 341   | e138 | 116  | 65   | 105  | 419  |
| 12    | 122  | 764   | 617   | e710  | 1390  | 1190  | 309   | e134 | 100  | 63   | 139  | 379  |
| 13    | 116  | 311   | 745   | e900  | 1360  | 1260  | 658   | e129 | 101  | 123  | 123  | 356  |
| 14    | 186  | 239   | 734   | e730  | 1350  | 1240  | 826   | e125 | 128  | 194  | 115  | 348  |
| 15    | 137  | 179   | 720   | e540  | 1330  | 1220  | 2040  | 120  | 101  | 576  | 129  | 235  |
| 16    | 117  | 317   | 495   | e521  | 1300  | 1190  | 1200  | 115  | 108  | 446  | 123  | 369  |
| 17    | 108  | 638   | 329   | e535  | 1280  | 1070  | 721   | 112  | 89   | 125  | 118  | 326  |
| 18    | 102  | 639   | 1440  | 549   | 1270  | 779   | 818   | 109  | 82   | 107  | 117  | 223  |
| 19    | 100  | 635   | 2450  | 624   | 1330  | 766   | 941   | 108  | 87   | 88   | 113  | 149  |
| 20    | 99   | 620   | 1640  | 543   | 1040  | 622   | 819   | 105  | 145  | 78   | 110  | 116  |
| 21    | 94   | 613   | e1070 | 514   | 834   | 780   | 638   | 101  | 140  | 74   | 122  | 111  |
| 22    | 93   | 608   | e940  | 502   | 1080  | 812   | 584   | 98   | 93   | 76   | 132  | 106  |
| 23    | 88   | 705   | e880  | 311   | 1170  | e1480 | 507   | 97   | 83   | 89   | 133  | 104  |
| 24    | 93   | 771   | e820  | 745   | 1040  | e2500 | 424   | 95   | 74   | 72   | 135  | 97   |
| 25    | 86   | 681   | e775  | 625   | 682   | e3300 | 332   | 86   | 72   | 151  | 133  | 80   |
| 26    | 83   | 649   | e690  | 1100  | 594   | 2130  | 325   | 82   | 90   | 180  | 136  | 75   |
| 27    | 114  | 640   | e610  | 3610  | 579   | 1090  | 285   | 74   | 101  | 157  | 157  | 95   |
| 28    | 169  | 618   | e540  | 2480  | 524   | 1220  | 233   | 548  | 83   | 275  | 301  | 118  |
| 29    | 108  | 363   | e480  | 1170  | 450   | 1050  | 320   | 731  | 73   | 163  | 483  | 102  |
| 30    | 92   | 272   | e430  | 1070  | ---   | 1200  | 334   | 223  | 67   | 104  | 550  | 88   |
| 31    | 93   | ---   | e380  | 1280  | ---   | 1110  | ---   | 141  | ---  | 90   | 541  | ---  |
| TOTAL | 5188 | 14023 | 20925 | 25874 | 38863 | 39568 | 19174 | 5270 | 3424 | 3946 | 6914 | 9571 |
| MEAN  | 167  | 467   | 675   | 835   | 1340  | 1276  | 639   | 170  | 114  | 127  | 223  | 319  |
| MAX   | 1100 | 1200  | 2450  | 3610  | 3000  | 4480  | 2040  | 731  | 395  | 576  | 704  | 662  |
| MIN   | 72   | 101   | 168   | 311   | 450   | 231   | 233   | 74   | 67   | 59   | 105  | 75   |
| CFSM  | .49  | 1.37  | 1.97  | 2.44  | 3.92  | 3.73  | 1.87  | .50  | .33  | .37  | .65  | .93  |
| IN.   | .56  | 1.53  | 2.28  | 2.81  | 4.23  | 4.30  | 2.09  | .57  | .37  | .43  | .75  | 1.04 |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1996, BY WATER YEAR (WY)

|      | 1969 | 1970 | 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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 135  | 323  | 566  | 789  | 1020 | 1119 | 989  | 565  | 275  | 234  | 172  | 167  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| MAX  | 429  | 942  | 1569 | 1729 | 3160 | 2295 | 2359 | 1977 | 1275 | 1003 | 408  | 565  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| (WY) | 1971 | 1993 | 1983 | 1993 | 1990 | 1979 | 1980 | 1991 | 1983 | 1989 | 1975 | 1979 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| MIN  | 31.2 | 33.4 | 82.0 | 118  | 281  | 233  | 124  | 94.5 | 42.8 | 56.0 | 64.9 | 60.0 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| (WY) | 1970 | 1979 | 1988 | 1988 | 1986 | 1988 | 1986 | 1992 | 1970 | 1995 | 1972 | 1993 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

## SUMMARY STATISTICS

## FOR 1995 CALENDAR YEAR

## FOR 1996 WATER YEAR

## WATER YEARS 1969 - 1996

|                          |        |         |       |
|--------------------------|--------|---------|-------|
| ANNUAL TOTAL             | 161153 | 192740  |       |
| ANNUAL MEAN              | 442    | 527     |       |
| HIGHEST ANNUAL MEAN      |        |         | 1022  |
| LOWEST ANNUAL MEAN       |        |         | 181   |
| HIGHEST DAILY MEAN       | 3500   | 4480    | 18700 |
| LOWEST DAILY MEAN        | 41     | 59      | 19    |
| ANNUAL SEVEN-DAY MINIMUM | 41     | 62      | 22    |
| INSTANTANEOUS PEAK FLOW  |        | unknown | 22800 |
| INSTANTANEOUS PEAK STAGE |        | unknown | 22.65 |
| ANNUAL RUNOFF (CFSM)     | 1.29   | 1.54    | 1.54  |
| ANNUAL RUNOFF (INCHES)   | 17.53  | 20.96   | 20.92 |
| 10 PERCENT EXCEEDS       | 1100   | 1240    | 1370  |
| 50 PERCENT EXCEEDS       | 227    | 322     | 216   |
| 90 PERCENT EXCEEDS       | 51     | 88      | 62    |

e Estimated

02476600 OKATIBBEE CREEK AT ARUNDEL, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY  | OCT  | NOV  | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1    | ---  | 4.19 | 5.29  | ---   | 10.02 | 6.17  | 9.15  | 5.45 | 4.38 | 3.81 | 4.74 | 6.55 |
| 2    | ---  | 4.29 | 4.91  | ---   | 14.86 | 5.73  | 9.00  | 5.20 | 4.33 | 3.77 | 4.99 | 6.87 |
| 3    | ---  | 5.10 | 4.87  | ---   | ---   | 5.47  | 8.74  | 5.09 | 4.32 | 3.76 | 7.56 | 7.16 |
| 4    | ---  | 5.22 | 4.98  | ---   | ---   | 5.39  | 7.56  | 5.00 | 4.24 | 3.73 | 5.96 | 6.85 |
| 5    | 9.36 | 5.71 | 4.98  | ---   | ---   | 5.32  | 6.79  | 4.93 | 4.16 | 3.72 | 7.03 | 6.67 |
| 6    | 6.42 | 5.69 | 5.77  | ---   | ---   | ---   | 6.67  | 4.87 | 4.07 | 3.73 | 5.70 | 6.61 |
| 7    | 5.21 | 6.58 | 6.20  | ---   | ---   | ---   | 6.60  | 4.82 | 4.10 | 3.87 | 4.85 | 6.63 |
| 8    | 4.85 | 6.22 | 5.48  | ---   | ---   | ---   | 6.40  | 4.76 | 6.16 | 3.99 | 4.47 | 6.56 |
| 9    | 4.65 | 5.35 | 9.29  | ---   | 11.22 | ---   | 6.25  | 4.70 | 5.43 | 3.80 | 4.37 | 6.82 |
| 10   | 4.50 | 4.61 | 7.75  | ---   | 11.05 | ---   | 6.12  | ---  | 4.77 | 3.83 | 4.16 | 6.44 |
| 11   | 4.41 | 9.84 | 6.14  | ---   | 10.89 | ---   | 5.95  | ---  | 4.42 | 3.81 | 4.12 | 6.07 |
| 12   | 4.35 | 7.83 | 7.16  | ---   | 10.69 | 9.79  | 5.78  | ---  | 4.25 | 3.78 | 4.41 | 5.92 |
| 13   | 4.29 | 5.77 | 7.74  | ---   | 10.55 | 10.11 | 7.36  | ---  | 4.26 | 4.17 | 4.24 | 5.83 |
| 14   | 4.85 | 5.37 | 7.69  | ---   | 10.49 | 10.04 | 8.09  | ---  | 4.53 | 4.92 | 4.13 | 5.80 |
| 15   | 4.48 | 4.95 | 7.62  | ---   | 10.42 | 9.94  | 13.24 | 4.46 | 4.27 | 6.53 | 4.24 | 5.14 |
| 16   | 4.30 | 5.65 | 6.62  | ---   | 10.29 | 9.82  | 9.82  | 4.41 | 4.34 | 6.33 | 4.17 | 5.76 |
| 17   | 4.21 | 7.26 | 5.88  | ---   | 10.19 | 9.24  | 7.63  | 4.38 | 4.13 | 4.50 | 4.14 | 5.65 |
| 18   | 4.13 | 7.27 | 10.77 | 6.85  | 10.15 | 7.89  | 8.07  | 4.35 | 4.05 | 4.32 | 4.13 | 5.10 |
| 19   | 4.11 | 7.25 | 14.52 | 7.20  | 10.44 | 7.84  | 8.62  | 4.34 | 4.11 | 4.12 | 4.09 | 4.54 |
| 20   | 4.10 | 7.18 | 11.64 | 6.82  | 9.11  | 7.19  | 8.07  | 4.31 | 4.60 | 3.99 | 4.07 | 4.25 |
| 21   | 4.05 | 7.15 | ---   | 6.69  | 8.14  | 7.90  | 7.26  | 4.27 | 4.62 | 3.94 | 4.18 | 4.20 |
| 22   | 4.04 | 7.13 | ---   | 6.63  | 9.29  | 8.05  | 7.01  | 4.23 | 4.18 | 3.97 | 4.29 | 4.15 |
| 23   | 3.98 | 7.56 | ---   | 5.76  | 9.70  | ---   | 6.65  | 4.22 | 4.06 | 4.12 | 4.30 | 4.12 |
| 24   | 4.04 | 7.86 | ---   | 7.73  | 9.11  | ---   | 6.30  | 4.20 | 3.94 | 3.92 | 4.33 | 4.06 |
| 25   | 3.97 | 7.45 | ---   | 7.20  | 7.46  | ---   | 5.91  | 4.10 | 3.92 | 4.73 | 4.31 | 3.86 |
| 26   | 3.95 | 7.31 | ---   | 9.21  | 7.06  | 13.37 | 5.87  | 4.05 | 4.12 | 4.80 | 4.34 | 3.79 |
| 27   | 4.19 | 7.27 | ---   | 16.66 | 6.99  | 9.34  | 5.65  | 3.94 | 4.26 | 4.77 | 4.52 | 4.00 |
| 28   | 4.74 | 7.17 | ---   | 14.46 | 6.73  | 9.93  | 5.33  | 6.42 | 4.06 | 5.46 | 5.47 | 4.26 |
| 29   | 4.24 | 6.01 | ---   | 9.70  | 6.40  | 9.15  | 5.74  | 7.69 | 3.93 | 4.81 | 6.31 | 4.11 |
| 30   | 4.08 | 5.57 | ---   | 9.26  | ---   | 9.83  | 5.90  | 5.25 | 3.84 | 4.29 | 6.60 | 3.95 |
| 31   | 4.10 | ---  | ---   | 10.18 | ---   | 9.44  | ---   | 4.65 | ---  | 4.14 | 6.57 | ---  |
| MEAN | ---  | 6.39 | ---   | ---   | ---   | ---   | 7.25  | ---  | 4.33 | 4.30 | 4.86 | 5.39 |
| MAX  | ---  | 9.84 | ---   | ---   | ---   | ---   | 13.24 | ---  | 6.16 | 6.53 | 7.56 | 7.16 |
| MIN  | ---  | 4.19 | ---   | ---   | ---   | ---   | 5.33  | ---  | 3.84 | 3.72 | 4.07 | 3.79 |

LOCATION.--Lat 32°10'32", long 88°49'10", in 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.

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.

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.

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).

| 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. 28 | 0015 | 10,300                            | 24.04               | Mar. 9 | 0415 | *13,800                           | *26.94              |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1996, BY WATER YEAR (WY)

|      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 263  | 668  | 1363 | 2020 | 2707 | 2852 | 2494 | 1260 | 529  | 599  | 359  | 283  |
| MAX  | 1310 | 4011 | 7012 | 6475 | 9250 | 6415 | 6793 | 5644 | 2200 | 4494 | 1518 | 1654 |
| (WY) | 1978 | 1949 | 1962 | 1947 | 1990 | 1980 | 1979 | 1991 | 1983 | 1940 | 1946 | 1979 |
| MIN  | 23.5 | 49.4 | 174  | 286  | 715  | 540  | 310  | 125  | 101  | 50.9 | 42.7 | 24.8 |
| (WY) | 1964 | 1964 | 1964 | 1956 | 1968 | 1955 | 1967 | 1963 | 1988 | 1952 | 1954 | 1954 |

|                          |        |        |        |        |  |       |             |
|--------------------------|--------|--------|--------|--------|--|-------|-------------|
| ANNUAL TOTAL             | 469398 |        | 477945 |        |  |       |             |
| ANNUAL MEAN              | 1286   |        | 1306   |        |  | 1276  |             |
| HIGHEST ANNUAL MEAN      |        |        |        |        |  | 2633  | 1983        |
| LOWEST ANNUAL MEAN       |        |        |        |        |  | 428   | 1963        |
| HIGHEST DAILY MEAN       | 12600  | Apr 25 | 13400  | Mar 8  |  | 58500 | Feb 23 1961 |
| LOWEST DAILY MEAN        | 79     | Sep 12 | 124    | Jul 11 |  | 18    | Sep 25 1954 |
| ANNUAL SEVEN-DAY MINIMUM | 82     | Sep 8  | 133    | Jul 7  |  | 18    | Sep 24 1954 |
| INSTANTANEOUS PEAK FLOW  |        |        | 13800  | Mar 9  |  | 61700 | Feb 23 1961 |
| INSTANTANEOUS PEAK STAGE |        |        | 26.94  | Mar 9  |  | 42.94 | Feb 23 1961 |
| INSTANTANEOUS LOW FLOW   |        |        | 121    | Jul 11 |  | 18    | Sep 25 1954 |
| ANNUAL RUNOFF (CFSM)     | 1.40   |        | 1.42   |        |  | 1.39  |             |
| ANNUAL RUNOFF (INCHES)   | 19.02  |        | 19.37  |        |  | 18.88 |             |
| 10 PERCENT EXCEEDS       | 3000   |        | 2870   |        |  | 3180  |             |
| 50 PERCENT EXCEEDS       | 622    |        | 716    |        |  | 480   |             |
| 90 PERCENT EXCEEDS       | 164    |        | 184    |        |  | 94    |             |

02477000 CHICKASAWHAY RIVER AT ENTERPRISE, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY  | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1    | 4.91  | 5.46  | 6.74  | 7.41  | 14.40 | 7.73  | 13.10 | 7.47 | 5.76 | 4.91 | 5.81 | 6.88 |
| 2    | 4.72  | 5.59  | 6.35  | 9.00  | 18.44 | 7.44  | 11.90 | 7.03 | 5.54 | 4.88 | 6.30 | 6.92 |
| 3    | 7.37  | 6.35  | 6.20  | 10.83 | 23.06 | 7.12  | 10.66 | 6.74 | 5.53 | 4.85 | 7.82 | 7.26 |
| 4    | 12.66 | 7.60  | 6.34  | 9.49  | 22.13 | 6.97  | 9.82  | 6.58 | 5.48 | 4.82 | 6.58 | 7.03 |
| 5    | 12.90 | 7.35  | 7.07  | 8.40  | 18.57 | 6.90  | 9.18  | 6.44 | 5.40 | 4.79 | 7.94 | 6.83 |
| 6    | 10.47 | 6.88  | 7.28  | 8.39  | 14.31 | 15.01 | 9.05  | 6.30 | 5.25 | 4.77 | 6.91 | 6.73 |
| 7    | 7.79  | 7.37  | 9.21  | 9.18  | 12.91 | 24.22 | 8.92  | 6.22 | 5.12 | 4.74 | 6.23 | 6.71 |
| 8    | 6.60  | 8.13  | 8.76  | 9.34  | 12.56 | 26.60 | 8.56  | 6.09 | 6.26 | 4.74 | 5.81 | 6.67 |
| 9    | 6.07  | 7.83  | 12.08 | 8.61  | 12.10 | 26.43 | 8.18  | 5.98 | 6.77 | 4.69 | 5.56 | 6.96 |
| 10   | 5.78  | 6.83  | 13.95 | 8.31  | 11.70 | 21.27 | 7.93  | 5.88 | 6.56 | 4.66 | 5.68 | 7.19 |
| 11   | 5.58  | 12.48 | 11.72 | 8.22  | 11.36 | 15.37 | 7.71  | 5.87 | 5.82 | 4.62 | 5.36 | 6.73 |
| 12   | 5.44  | 14.52 | 9.88  | 10.09 | 11.00 | 12.05 | 7.50  | 5.93 | 5.43 | 4.64 | 5.22 | 6.45 |
| 13   | 5.35  | 11.73 | 9.30  | 10.37 | 10.69 | 11.35 | 9.17  | 5.83 | 5.24 | 4.66 | 5.30 | 6.24 |
| 14   | 5.88  | 9.21  | 9.02  | 9.20  | 10.54 | 11.02 | 11.69 | 5.75 | 5.48 | 5.95 | 5.05 | 6.14 |
| 15   | 5.70  | 8.19  | 8.80  | 8.63  | 10.43 | 10.78 | 17.42 | 5.67 | 7.29 | 5.35 | 5.08 | 5.88 |
| 16   | 5.48  | 7.53  | 8.78  | 8.36  | 10.26 | 10.59 | 18.00 | 5.58 | 7.84 | 8.27 | 5.08 | 5.59 |
| 17   | 5.34  | 8.26  | 8.78  | 8.19  | 10.10 | 10.42 | 14.32 | 5.50 | 6.35 | 5.81 | 4.99 | 7.15 |
| 18   | 5.23  | 8.22  | 15.45 | 8.17  | 10.00 | 9.98  | 10.53 | 5.45 | 5.67 | 6.15 | 4.92 | 6.22 |
| 19   | 5.15  | 8.07  | 21.82 | 8.71  | 10.89 | 10.57 | 10.10 | 5.38 | 5.45 | 5.52 | 4.87 | 5.68 |
| 20   | 5.09  | 7.94  | 22.14 | 8.48  | 12.07 | 10.62 | 9.74  | 5.34 | 5.47 | 5.15 | 4.83 | 5.16 |
| 21   | 5.04  | 7.84  | 20.07 | 8.15  | 10.26 | 9.60  | 8.92  | 5.28 | 6.45 | 4.93 | 4.80 | 5.02 |
| 22   | 4.99  | 7.74  | 14.82 | 8.01  | 10.09 | 9.40  | 8.87  | 5.23 | 5.78 | 4.78 | 4.92 | 4.97 |
| 23   | 4.97  | 7.78  | 11.38 | 7.72  | 10.18 | 8.91  | 9.11  | 5.23 | 5.40 | 4.78 | 4.91 | 4.90 |
| 24   | 5.11  | 8.66  | 10.65 | 9.52  | 9.88  | 8.32  | 10.14 | 5.17 | 5.15 | 4.78 | 4.90 | 4.85 |
| 25   | 5.04  | 8.57  | 10.31 | 12.45 | 8.80  | 13.96 | 8.79  | 5.11 | 5.10 | 5.55 | 4.90 | 4.70 |
| 26   | 4.98  | 8.19  | 10.06 | 12.35 | 8.17  | 20.08 | 8.07  | 5.05 | 5.01 | 5.97 | 4.90 | 4.63 |
| 27   | 5.01  | 7.95  | 9.87  | 22.43 | 8.05  | 18.66 | 7.87  | 4.98 | 5.21 | 6.74 | 5.04 | 4.62 |
| 28   | 5.68  | 7.81  | 9.54  | 24.66 | 8.08  | 17.39 | 7.50  | 5.20 | 5.06 | 6.42 | 5.72 | 5.11 |
| 29   | 5.80  | 7.41  | 8.54  | 24.29 | 7.91  | 14.23 | 7.27  | 9.43 | 4.98 | 6.97 | 6.17 | 5.49 |
| 30   | 5.63  | 6.78  | 7.81  | 19.98 | ---   | 12.75 | 8.06  | 7.24 | 4.95 | 6.35 | 6.76 | 5.35 |
| 31   | 5.44  | ---   | 7.36  | 15.67 | ---   | 13.84 | ---   | 6.33 | ---  | 5.62 | 6.93 | ---  |
| MEAN | 6.17  | 8.14  | 10.65 | 11.05 | 12.03 | 13.21 | 9.94  | 5.98 | 5.69 | 5.38 | 5.65 | 6.00 |
| MAX  | 12.90 | 14.52 | 22.14 | 24.66 | 23.06 | 26.60 | 18.00 | 9.43 | 7.84 | 8.27 | 7.94 | 7.26 |
| MIN  | 4.72  | 5.46  | 6.20  | 7.41  | 7.91  | 6.90  | 7.27  | 4.98 | 4.95 | 4.62 | 4.80 | 4.62 |

## PASCAGOULA RIVER BASIN

02477350 CHICKASAWHAY RIVER AT SHUBUTA, MS

LOCATION.--Lat 31°51'25", long 88°41'11", in NW1/4 sec.10, T.10 N., R.7 W., St. Stephens Meridian, Clarke County, Hydrologic Unit 03170002, at bridge on county road, 0.5 mi southeast of Shubuta and at mile 114.0.

DRAINAGE AREA.--1,458 mi<sup>2</sup>.

PERIOD OF RECORD.--January 1972 to current year (gage heights only), 1905 to 1961 annual maximum observed gage heights and discharge. Gage-height records collected in the vicinity October 1904 to December 1971 (seasonal gage heights only January 1906 to December 1923) are contained in reports of National Weather Service.

REVISED RECORDS.--WDR MS-79-1:(M).

GAGE.--Nonrecording gage. Datum of gage is 147.58 ft above sea level. Nov. 1, 1904 to Apr. 18, 1923 at datum about 0.58 ft lower, Apr. 19, 1923 to Mar. 12, 1940 at datum 3.62 ft higher, Mar. 13, 1940 to Oct. 23, 1980 at site 3,500 ft downstream, at datum 0.28 ft lower.

REMARKS.--Records furnished by National Weather Service.

EXTREMES FOR PERIOD OF RECORD.--1905 to 1961: Maximum discharge, 86,000 ft<sup>3</sup>/s, Dec. 11, 1919, gage height, 44.3 ft, former site and datum, 47.2 ft at present site and datum. 1904 to current year: Maximum gage height, 47.2 ft, Dec. 11, 1919, minimum since January 1972, 1.70 ft, Sept. 7-12, 16-19, 21, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum gage height observed, 23.9 ft, Mar. 11, minimum observed, 1.90 ft, July 8-9.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY OBSERVATION AT 06:00 VALUES

| DAY  | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1    | 3.10  | 3.40  | ---   | 5.90  | 21.50 | 8.10  | 14.60 | 6.60 | 4.10 | 2.60 | 4.80 | 5.20 |
| 2    | 3.10  | 3.40  | ---   | 6.10  | 16.10 | 7.10  | 13.20 | 6.00 | 3.50 | 2.50 | 4.70 | 4.90 |
| 3    | 2.70  | 3.60  | 4.60  | 6.80  | ---   | 6.60  | 11.90 | 5.30 | 3.20 | 2.30 | 5.20 | 4.70 |
| 4    | 4.90  | 4.00  | 4.50  | 9.20  | 19.20 | 6.00  | 9.70  | 4.90 | 3.10 | 2.30 | 5.90 | 4.30 |
| 5    | 11.70 | 4.40  | 4.50  | 9.40  | 19.60 | 5.40  | 8.60  | 5.10 | 3.10 | 2.20 | 5.20 | 4.40 |
| 6    | 11.20 | 5.40  | 4.70  | 7.00  | 20.30 | 6.40  | 8.10  | 5.00 | 3.00 | 2.00 | 5.80 | 4.20 |
| 7    | 11.00 | 4.90  | 8.40  | 6.80  | 19.40 | 17.40 | 8.60  | 4.30 | 2.90 | 2.00 | 4.80 | 4.50 |
| 8    | 6.20  | 5.30  | 9.90  | 6.70  | 16.10 | 21.90 | 8.10  | 4.20 | 3.60 | 1.90 | 4.20 | 4.20 |
| 9    | 5.10  | 7.10  | 10.10 | 7.90  | 12.00 | 21.40 | 7.50  | 4.00 | 3.40 | 1.90 | 4.10 | 4.20 |
| 10   | 4.40  | 6.70  | 10.20 | 7.10  | 11.20 | 22.60 | 7.10  | 3.80 | 4.40 | 2.20 | 3.60 | 4.30 |
| 11   | 4.40  | 12.30 | 13.50 | 6.60  | 10.50 | 23.90 | 6.70  | 3.90 | 4.20 | 2.30 | 3.10 | 5.40 |
| 12   | 4.40  | 13.40 | 12.40 | 6.60  | 10.10 | 22.20 | 6.10  | 3.90 | 3.90 | 2.50 | 2.90 | 4.80 |
| 13   | 3.70  | 15.20 | 10.20 | 8.30  | 9.90  | 14.60 | 5.80  | 3.80 | 3.30 | 2.70 | 3.10 | 4.40 |
| 14   | 3.00  | 13.20 | 8.00  | 8.80  | 9.40  | 10.40 | 9.80  | 3.70 | 3.70 | 2.40 | 2.90 | 3.70 |
| 15   | 3.50  | 10.50 | 7.50  | 8.10  | 9.20  | 9.80  | 12.60 | 3.60 | 4.90 | 2.70 | 2.90 | 3.50 |
| 16   | 3.60  | 7.40  | 7.10  | 7.20  | 9.00  | 9.40  | 15.90 | 3.50 | 7.80 | 3.50 | 3.20 | 3.50 |
| 17   | 3.40  | 6.70  | 8.80  | 6.90  | 8.70  | 9.30  | 16.20 | 3.40 | 6.00 | 6.20 | 2.70 | 3.30 |
| 18   | 3.10  | 6.60  | 10.10 | 6.70  | 8.40  | 9.40  | 14.90 | 3.30 | 5.30 | 4.00 | 2.50 | 3.10 |
| 19   | 2.90  | 6.60  | 19.10 | 6.70  | 8.20  | 10.50 | 10.10 | 3.20 | 4.00 | 3.70 | 2.40 | 4.70 |
| 20   | 2.80  | 6.30  | 19.40 | 6.80  | 15.50 | 9.90  | 9.00  | 3.20 | 4.70 | 3.20 | 2.30 | 3.80 |
| 21   | 3.40  | 5.90  | 19.20 | 7.20  | 15.10 | 9.50  | 8.70  | 3.10 | 5.20 | 2.80 | 2.30 | 2.80 |
| 22   | ---   | 5.90  | 19.50 | 6.80  | 11.60 | 8.50  | 7.90  | 3.00 | 4.50 | 2.60 | 2.20 | 2.50 |
| 23   | ---   | 5.70  | 18.60 | 6.40  | 10.40 | 7.90  | 7.50  | 3.00 | 4.10 | 2.40 | 2.20 | 2.40 |
| 24   | ---   | 5.60  | 14.70 | 6.50  | 9.30  | 7.40  | 7.40  | 2.90 | 3.20 | 2.20 | 2.20 | 2.30 |
| 25   | ---   | 5.70  | 10.60 | 8.70  | 8.70  | 7.20  | 8.20  | 2.80 | 3.00 | 2.40 | 2.10 | 2.40 |
| 26   | ---   | 6.70  | 9.20  | 10.80 | 8.20  | 15.80 | 8.40  | 2.70 | 2.90 | 2.60 | 2.20 | 2.40 |
| 27   | 2.70  | ---   | 8.70  | 18.50 | 7.10  | 17.60 | 7.00  | 2.60 | 2.80 | 3.50 | 2.20 | 2.20 |
| 28   | 2.80  | ---   | 8.50  | 19.60 | 10.20 | 19.30 | 6.50  | 2.60 | 2.70 | 4.60 | 2.20 | 2.40 |
| 29   | 3.30  | ---   | 8.20  | 20.10 | 9.80  | 17.80 | 6.10  | 3.30 | 2.90 | 4.20 | 2.30 | 3.70 |
| 30   | 3.80  | ---   | 7.60  | 21.30 | ---   | 16.80 | 6.10  | 7.60 | 2.60 | 4.80 | 2.60 | 3.70 |
| 31   | 3.50  | ---   | 6.60  | 22.00 | ---   | 15.80 | ---   | 5.50 | ---  | 4.50 | 5.20 | ---  |
| MEAN | ---   | ---   | ---   | 9.47  | ---   | 12.77 | 9.28  | 3.99 | 3.87 | 2.96 | 3.35 | 3.73 |
| MAX  | ---   | ---   | ---   | 22.00 | ---   | 23.90 | 16.20 | 7.60 | 7.80 | 6.20 | 5.90 | 5.40 |
| MIN  | ---   | ---   | ---   | 5.90  | ---   | 5.40  | 5.80  | 2.60 | 2.60 | 1.90 | 2.10 | 2.20 |



02477500 CHICKASAWHAY RIVER NEAR WAYNESBORO, MS

LOCATION.--Lat 31°40'46", long 88°41'00", in NW1/4 sec.10, T.8 N., R.7 W., St. Stephens Meridian, Wayne County, Hydrologic Unit 03170002, on right bank 18 ft downstream from bridge on U.S. Highway 84, 2.3 mi west of Waynesboro, and at mile 93.2.

DRAINAGE AREA.--1,650 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1938 to September 1950, January 1972 to current year (gage heights only). Gage-height records collected at same site January 1947 to December 1971 are contained in reports of National Weather Service.

GAGE.--Nonrecording gage. Datum of gage is 119.91 ft above sea level (Mississippi Department of Transportation bench mark). September 1938 to May 4, 1939, wire-weight gage and May 5, 1939 to September 1950, water-stage recorders, at present site and datum.

REMARKS.--Records furnished by National Weather Service. National Weather Service telemeter at station.

AVERAGE DISCHARGE.--12 years (water years 1939-50), 2,575 ft<sup>3</sup>/s, 21.06 in/yr.

EXTREMES FOR PERIOD OF RECORD.--1938-1950: Maximum discharge, 26,000 ft<sup>3</sup>/s, Jan. 24, 1947, gage height, 39.00 ft; minimum gage height observed, 2.07 ft, Sept. 22, 1935. 1947 to current year: Maximum gage height, 47.90 ft, Feb. 26, 1961 (discharge 58,300 ft<sup>3</sup>/s), minimum since January 1972, 0.80 ft, Oct. 15, 16, 17, 1976

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 1900 reached a stage of 51.5 ft at site 1.3 mi upstream, at datum 2.95 ft higher and about 50 ft at present site and datum (discharge about 73,000 ft<sup>3</sup>/s).

EXTREMES FOR CURRENT YEAR.--Maximum gage height observed, 23.21 ft, Mar. 12, minimum observed, 1.89 ft, July 10.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY OBSERVATION AT 06:00 VALUES

| DAY  | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1    | 3.57  | 3.97  | 6.10  | ---   | 21.57 | 9.48  | 15.80 | 6.64 | 4.99 | 2.57 | 3.52 | 5.74 |
| 2    | 3.55  | 4.74  | 5.38  | ---   | 19.03 | 7.71  | 14.52 | 6.74 | 3.86 | 2.46 | 3.53 | 5.56 |
| 3    | 2.79  | 5.38  | 5.15  | ---   | 16.83 | 7.08  | 13.04 | 6.30 | 3.37 | 2.35 | 3.54 | 4.96 |
| 4    | 3.13  | 4.87  | 5.02  | ---   | 18.97 | 6.42  | 11.16 | 5.80 | 3.10 | 2.26 | 3.58 | 4.66 |
| 5    | 9.66  | 5.01  | 4.97  | ---   | 19.56 | 5.94  | 9.63  | 5.38 | 3.05 | 2.18 | 4.73 | 4.66 |
| 6    | 12.05 | 5.87  | 5.01  | 8.62  | 19.94 | 7.33  | 8.66  | 5.30 | 2.98 | 2.10 | 5.16 | 4.36 |
| 7    | 11.28 | 5.54  | 8.76  | 7.60  | 19.98 | 14.03 | 9.93  | 5.25 | 2.90 | 1.97 | 5.34 | 8.46 |
| 8    | 7.99  | 5.98  | 10.94 | 7.30  | 17.19 | 21.28 | 9.13  | 4.98 | 3.29 | 1.92 | 5.24 | 4.35 |
| 9    | 5.90  | 7.44  | 10.24 | 7.33  | 12.80 | 22.14 | 8.42  | 4.81 | 3.67 | 1.90 | 5.02 | 4.41 |
| 10   | 4.81  | 7.49  | 12.14 | 7.36  | 11.72 | 21.92 | 7.73  | 4.66 | 4.18 | 1.89 | 4.83 | 5.73 |
| 11   | 4.80  | 8.90  | 14.17 | 7.30  | 11.49 | 22.96 | 7.22  | 4.58 | 4.26 | 1.96 | 4.62 | 5.11 |
| 12   | 4.37  | 14.68 | 13.43 | 7.24  | 11.21 | 23.21 | 6.85  | 4.53 | 4.00 | 2.02 | 4.44 | 5.09 |
| 13   | 4.00  | 15.67 | 11.19 | 7.22  | 10.94 | 19.86 | 6.42  | 4.49 | 3.36 | 2.18 | 4.29 | 4.48 |
| 14   | 3.28  | 13.92 | 8.96  | 8.88  | 10.60 | 11.78 | 9.38  | 4.44 | 5.71 | 2.32 | 4.04 | 3.78 |
| 15   | 3.53  | 10.98 | 8.28  | 8.39  | 10.29 | 10.39 | 11.84 | 4.38 | 5.10 | 2.53 | 3.80 | 3.58 |
| 16   | 3.78  | 8.29  | 7.93  | 7.45  | 9.96  | 9.91  | 15.15 | 4.30 | 7.41 | 2.99 | 3.68 | 3.46 |
| 17   | 3.66  | 7.40  | 8.08  | 7.12  | 9.65  | 9.98  | 16.42 | 4.21 | 6.92 | 3.52 | 3.53 | 3.35 |
| 18   | 3.34  | 6.87  | 10.73 | 6.90  | 9.35  | 10.38 | 16.19 | 4.11 | 5.73 | 5.36 | 3.38 | ---  |
| 19   | 3.15  | 7.22  | 20.46 | 6.88  | 9.08  | 12.25 | 13.39 | 4.00 | 4.30 | 4.88 | 3.26 | ---  |
| 20   | 3.79  | 6.95  | 20.93 | 7.09  | 11.56 | 10.84 | 9.74  | 3.90 | 5.56 | 4.64 | 3.14 | ---  |
| 21   | 3.66  | 6.57  | 20.63 | 7.42  | 15.93 | 10.56 | 9.17  | 3.78 | 4.56 | 4.46 | 3.01 | ---  |
| 22   | 3.42  | 6.39  | ---   | 6.99  | 13.07 | 9.13  | 8.76  | 3.68 | 4.46 | 4.25 | 2.90 | ---  |
| 23   | 3.22  | 6.37  | ---   | 6.57  | 12.26 | 8.45  | 8.09  | 3.60 | 4.58 | 4.06 | 2.82 | ---  |
| 24   | 3.06  | 6.35  | ---   | 6.44  | 11.69 | 8.04  | 8.00  | 3.50 | 4.19 | 3.78 | 2.72 | 2.30 |
| 25   | 2.96  | 6.76  | ---   | 7.59  | 11.15 | 7.42  | 8.55  | 3.42 | 3.26 | 3.62 | 2.64 | 2.25 |
| 26   | 2.95  | 7.35  | ---   | 10.46 | 10.79 | 15.25 | 8.77  | 3.32 | 2.90 | 3.55 | 2.56 | 2.22 |
| 27   | 2.95  | 7.10  | ---   | 16.78 | 10.28 | 17.53 | 7.52  | 2.97 | 2.90 | 3.48 | 2.49 | 1.98 |
| 28   | 3.03  | 6.83  | ---   | 20.46 | 9.90  | 19.02 | 7.18  | 2.69 | 2.83 | 3.46 | 2.42 | 3.65 |
| 29   | 3.29  | 6.61  | ---   | 21.02 | 12.91 | 19.64 | 6.74  | 2.64 | 2.72 | 3.48 | 2.35 | 3.16 |
| 30   | 3.89  | 6.36  | ---   | 20.66 | ---   | 18.42 | 6.46  | 3.34 | 2.69 | 3.49 | 2.36 | 3.72 |
| 31   | 4.03  | ---   | ---   | 21.25 | ---   | 17.74 | ---   | 6.64 | ---  | 3.50 | 5.86 | ---  |
| MEAN | 4.48  | 7.46  | ---   | ---   | 13.44 | 13.42 | 10.00 | 4.46 | 4.09 | 3.07 | 3.70 | ---  |
| MAX  | 12.05 | 15.67 | ---   | ---   | 21.57 | 23.21 | 16.42 | 6.74 | 7.41 | 5.36 | 5.86 | ---  |
| MIN  | 2.79  | 3.97  | ---   | ---   | 9.08  | 5.94  | 6.42  | 2.64 | 2.69 | 1.89 | 2.35 | ---  |

## PASCAGOULA RIVER BASIN

02477990 BUCKATUNNA CREEK NEAR DENHAM, MS

LOCATION.--Lat 31°41'38", long 88°31'10", in 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: May 12-21. 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 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) |
|---------|------|--------------------------------|------------------|--------|------|--------------------------------|------------------|
| Dec. 19 | 1645 | *4,620                         | *20.44           | Mar. 7 | 1200 | 4,590                          | 20.35            |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT  | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1     | 27   | 158   | 215   | 444   | 2640  | 1380  | 2340  | 415  | 368  | 58   | 156  | 239  |
| 2     | 26   | 1090  | 200   | 640   | 2460  | 850   | 1630  | 484  | 205  | 54   | 139  | 243  |
| 3     | 28   | 813   | 190   | 732   | 2140  | 655   | 1340  | 388  | 147  | 50   | 132  | 206  |
| 4     | 162  | 401   | 193   | 643   | 1860  | 541   | 1020  | 295  | 130  | 45   | 122  | 145  |
| 5     | 535  | 295   | 209   | 526   | 1780  | 469   | 799   | 248  | 111  | 42   | 277  | 138  |
| 6     | 625  | 265   | 318   | 452   | 1860  | 1390  | 908   | 219  | 113  | 37   | 340  | 120  |
| 7     | 540  | 337   | 1420  | 404   | 2030  | 4350  | 1120  | 196  | 104  | 36   | 210  | 579  |
| 8     | 363  | 580   | 1110  | 377   | 1720  | 3950  | 871   | 177  | 202  | 60   | 202  | 245  |
| 9     | 216  | 544   | 1270  | 357   | 1090  | 3390  | 718   | 162  | 200  | 39   | 209  | 235  |
| 10    | 156  | 643   | 1370  | 346   | 891   | 2930  | 591   | 149  | 217  | 47   | 146  | 497  |
| 11    | 127  | 1840  | 1280  | 330   | 770   | 2650  | 518   | 141  | 201  | 37   | 120  | 192  |
| 12    | 110  | 2290  | 1120  | 347   | 672   | 2800  | 465   | e140 | 156  | 34   | 106  | 344  |
| 13    | 98   | 1890  | 800   | 412   | 590   | 2400  | 549   | e130 | 142  | 62   | 100  | 238  |
| 14    | 91   | 1520  | 593   | 479   | 528   | 1200  | 862   | e120 | 388  | 72   | 107  | 162  |
| 15    | 84   | 1130  | 497   | 431   | 485   | 858   | 1370  | e110 | 602  | 69   | 122  | 128  |
| 16    | 85   | 717   | 440   | 375   | 457   | 757   | 1420  | e100 | 402  | 78   | 123  | 112  |
| 17    | 153  | 532   | 566   | 351   | 432   | 961   | 1240  | e96  | 288  | 110  | 100  | 105  |
| 18    | 135  | 422   | 2360  | 366   | 408   | 1260  | 1090  | e90  | 179  | 130  | 84   | 95   |
| 19    | 114  | 359   | 4510  | 434   | 402   | 2370  | 794   | e85  | 145  | 110  | 72   | 168  |
| 20    | 99   | 310   | 4080  | 446   | 717   | 1750  | 644   | e82  | 182  | 90   | 64   | 192  |
| 21    | 88   | 277   | 3620  | 405   | 1510  | 1220  | 562   | e79  | 127  | 74   | 59   | 147  |
| 22    | 79   | 244   | 3050  | 374   | 1760  | 799   | 494   | 75   | 166  | 61   | 53   | 122  |
| 23    | 73   | 224   | 2020  | 343   | 1540  | 649   | 469   | 70   | 263  | 51   | 50   | 103  |
| 24    | 69   | 236   | 1150  | 657   | 1060  | 574   | 533   | 67   | 156  | 43   | 45   | 93   |
| 25    | 66   | 395   | 750   | 836   | 709   | 1340  | 524   | 63   | 114  | 40   | 41   | 86   |
| 26    | 64   | 468   | 640   | 931   | 570   | 2420  | 471   | 60   | 96   | 44   | 53   | 82   |
| 27    | 64   | 398   | 567   | 3350  | 495   | 2260  | 427   | 57   | 84   | 41   | 43   | 88   |
| 28    | 83   | 309   | 513   | 3340  | 840   | 2580  | 387   | 62   | 75   | 119  | 43   | 162  |
| 29    | 74   | 264   | 470   | 2750  | 1980  | 2430  | 348   | 102  | 68   | 149  | 40   | 113  |
| 30    | 93   | 233   | 437   | 2530  | ---   | 2670  | 342   | 86   | 63   | 182  | 217  | 97   |
| 31    | 144  | ---   | 419   | 2560  | ---   | 2900  | ---   | 245  | ---  | 146  | 315  | ---  |
| TOTAL | 4671 | 19184 | 36377 | 26968 | 34396 | 56753 | 24846 | 4793 | 5694 | 2210 | 3890 | 5476 |
| MEAN  | 151  | 639   | 1173  | 870   | 1186  | 1831  | 828   | 155  | 190  | 71.3 | 125  | 183  |
| MAX   | 625  | 2290  | 4510  | 3350  | 2640  | 4350  | 2340  | 484  | 602  | 182  | 340  | 579  |
| MIN   | 26   | 158   | 190   | 330   | 402   | 469   | 342   | 57   | 63   | 34   | 40   | 82   |
| CFSM  | .31  | 1.30  | 2.39  | 1.77  | 2.41  | 3.72  | 1.68  | .31  | .39  | .14  | .26  | .37  |
| IN.   | .35  | 1.45  | 2.75  | 2.04  | 2.60  | 4.29  | 1.88  | .36  | .43  | .17  | .29  | .41  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1996, 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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 171  | 446  | 829  | 1426 | 1501 | 1648 | 1492 | 727  | 368  | 278  | 168  | 210  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| MAX  | 945  | 1852 | 1901 | 3239 | 4046 | 3445 | 4431 | 3155 | 1465 | 1717 | 660  | 1315 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| (WY) | 1976 | 1980 | 1987 | 1990 | 1990 | 1983 | 1980 | 1991 | 1991 | 1989 | 1975 | 1979 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| MIN  | 16.8 | 23.7 | 118  | 172  | 534  | 475  | 164  | 89.2 | 26.9 | 36.4 | 27.3 | 15.1 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| (WY) | 1979 | 1979 | 1988 | 1981 | 1989 | 1986 | 1988 | 1988 | 1988 | 1995 | 1981 | 1972 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

| SUMMARY STATISTICS       | FOR 1995 CALENDAR YEAR | FOR 1996 WATER YEAR | WATER YEARS 1972 - 1996 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 201307                 | 225258              | 771                     |
| ANNUAL MEAN              | 552                    | 615                 | 1388                    |
| HIGHEST ANNUAL MEAN      |                        |                     | 1880                    |
| LOWEST ANNUAL MEAN       |                        |                     | 287                     |
| HIGHEST DAILY MEAN       | 4510                   | Dec 19              | 11700                   |
| LOWEST DAILY MEAN        | 26                     | Oct 2               | 8.4                     |
| ANNUAL SEVEN-DAY MINIMUM | 27                     | Sep 16              | 9.9                     |
| INSTANTANEOUS PEAK FLOW  |                        |                     | 12200                   |
| INSTANTANEOUS PEAK STAGE |                        |                     | 34.90                   |
| INSTANTANEOUS LOW FLOW   |                        |                     | 7.8                     |
| ANNUAL RUNOFF (CFSM)     | 1.12                   | 1.25                | 1.57                    |
| ANNUAL RUNOFF (INCHES)   | 15.22                  | 17.03               | 21.29                   |
| 10 PERCENT EXCEEDS       | 1470                   | 1800                | 2120                    |
| 50 PERCENT EXCEEDS       | 257                    | 309                 | 326                     |
| 90 PERCENT EXCEEDS       | 29                     | 64                  | 43                      |

e Estimated

LOCATION.--Lat 31°08'54", long 88°33'52", in 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 bridge on 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.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15,000 ft<sup>3</sup>/s and maximum (\*):

e Estimated

## PASCAGOULA RIVER BASIN

02479000 PASCAGOULA RIVER AT MERRILL, MS

LOCATION.--Lat 30°58'40", long 88°43'35", in 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 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.--No estimated daily discharges. Records good. Records of chemical analysis for the current year at site 13.8 mi downstream (station 02479020). 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT   | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 1     | 1440  | 2010   | 3080   | 8650   | 37600  | 22200  | 35300  | 8210   | 3090  | 2060  | 2400  | 2440  |
| 2     | 1400  | 2340   | 2920   | 10500  | 36200  | 18100  | 34000  | 7440   | 3270  | 1910  | 2960  | 4180  |
| 3     | 1410  | 4040   | 2740   | 9770   | 34600  | 12300  | 30100  | 6780   | 3120  | 1850  | 3920  | 4440  |
| 4     | 1750  | 7230   | 2620   | 9080   | 33600  | 9510   | 23900  | 6130   | 2880  | 1800  | 4730  | 3800  |
| 5     | 3020  | 6190   | 2600   | 9160   | 32200  | 8110   | 17900  | 5440   | 2670  | 1740  | 4630  | 3220  |
| 6     | 4180  | 4490   | 2710   | 9510   | 30200  | 7060   | 14200  | 4890   | 2530  | 1690  | 4570  | 2810  |
| 7     | 6410  | 3870   | 3170   | 8250   | 27900  | 8560   | 16900  | 4550   | 2410  | 1640  | 4540  | 2590  |
| 8     | 7020  | 4600   | 5280   | 6730   | 24600  | 19100  | 17500  | 4310   | 2460  | 1600  | 3930  | 2500  |
| 9     | 5580  | 4510   | 9450   | 5980   | 21700  | 27700  | 14400  | 4000   | 3060  | 1570  | 3720  | 2770  |
| 10    | 4100  | 4570   | 10500  | 5850   | 17600  | 33300  | 11500  | 3770   | 3270  | 1890  | 3350  | 2460  |
| 11    | 3140  | 4780   | 11700  | 5840   | 12700  | 37300  | 9700   | 3660   | 3000  | 1930  | 2970  | 2240  |
| 12    | 2590  | 5390   | 12400  | 5580   | 10700  | 38500  | 8410   | 3580   | 2830  | 1720  | 2780  | 2540  |
| 13    | 2320  | 9620   | 12300  | 5490   | 9530   | 37600  | 7670   | 3450   | 2690  | 1690  | 2740  | 2390  |
| 14    | 2120  | 12700  | 10500  | 5590   | 8720   | 31700  | 8640   | 3340   | 2640  | 2240  | 2480  | 2320  |
| 15    | 2020  | 12900  | 7910   | 6180   | 8050   | 24400  | 16100  | 3210   | 3090  | 2260  | 2200  | 2190  |
| 16    | 1900  | 10700  | 6140   | 6470   | 7520   | 15600  | 21500  | 3090   | 3820  | 2500  | 2010  | 1990  |
| 17    | 2030  | 7770   | 5430   | 5860   | 7100   | 11800  | 23800  | 2990   | 4270  | 2720  | 1910  | 1830  |
| 18    | 1970  | 5750   | 10800  | 5410   | 6750   | 18500  | 24500  | 2890   | 4900  | 2690  | 1830  | 1720  |
| 19    | 1840  | 4700   | 29400  | 5230   | 6570   | 20900  | 22600  | 2800   | 4220  | 2760  | 1710  | 1650  |
| 20    | 1730  | 4240   | 35500  | 5200   | 10400  | 20900  | 19500  | 2700   | 3660  | 2830  | 1620  | 1650  |
| 21    | 1630  | 3940   | 36200  | 5280   | 13900  | 20200  | 14400  | 2600   | 3440  | 2510  | 1570  | 1850  |
| 22    | 1620  | 3640   | 35500  | 5340   | 15000  | 15900  | 10800  | 2510   | 3390  | 2260  | 1520  | 2090  |
| 23    | 1590  | 3370   | 35000  | 5190   | 14700  | 13000  | 9470   | 2440   | 3320  | 2090  | 1430  | 2130  |
| 24    | 1530  | 3320   | 32800  | 5320   | 12800  | 10800  | 10400  | 2390   | 3170  | 2080  | 1370  | 1840  |
| 25    | 1470  | 3620   | 26200  | 7090   | 11100  | 9750   | 11100  | 2350   | 2990  | 1940  | 1330  | 1640  |
| 26    | 1440  | 3640   | 17600  | 8230   | 9310   | 12500  | 10600  | 2280   | 2780  | 1850  | 1320  | 1480  |
| 27    | 1420  | 3820   | 10600  | 17000  | 7710   | 16900  | 9860   | 2200   | 2560  | 1790  | 1330  | 1400  |
| 28    | 1420  | 3850   | 8340   | 29700  | 7470   | 23800  | 8400   | 2140   | 2430  | 1740  | 1310  | 1610  |
| 29    | 1500  | 3580   | 7340   | 34300  | 17500  | 27100  | 7380   | 2150   | 2350  | 1750  | 1400  | 2390  |
| 30    | 1720  | 3300   | 6710   | 37200  | ---    | 29100  | 7870   | 2360   | 2270  | 1890  | 1610  | 2290  |
| 31    | 1880  | ---    | 6700   | 37600  | ---    | 33100  | ---    | 2640   | ---   | 2260  | 1740  | ---   |
| TOTAL | 75190 | 158480 | 410140 | 332580 | 493730 | 635290 | 478400 | 113290 | 92580 | 63250 | 76930 | 70450 |
| MEAN  | 2425  | 5283   | 13230  | 10730  | 17030  | 20490  | 15950  | 3655   | 3086  | 2040  | 2482  | 2348  |
| MAX   | 7020  | 12900  | 36200  | 37600  | 37600  | 38500  | 35300  | 8210   | 4900  | 2830  | 4730  | 4440  |
| MIN   | 1400  | 2010   | 2600   | 5190   | 6570   | 7060   | 7380   | 2140   | 2270  | 1570  | 1310  | 1400  |
| CFSM  | .37   | .80    | 2.01   | 1.63   | 2.58   | 3.11   | 2.42   | .55    | .47   | .31   | .38   | .36   |
| IN.   | .42   | .89    | 2.32   | 1.88   | 2.79   | 3.59   | 2.70   | .64    | .52   | .36   | .43   | .44   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1996, BY WATER YEAR (WY)

|      |       |       |       |       |       |       |       |       |       |       |       |       |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| MEAN | 3004  | 5177  | 10380 | 15280 | 18810 | 20340 | 19280 | 10970 | 5264  | 5349  | 4107  | 3670  |
| MAX  | 12410 | 21640 | 45210 | 40160 | 58660 | 47600 | 70770 | 49960 | 18570 | 34250 | 11500 | 15110 |
| (WY) | 1976  | 1949  | 1962  | 1974  | 1990  | 1961  | 1980  | 1991  | 1991  | 1940  | 1975  | 1979  |
| MIN  | 763   | 914   | 1598  | 2328  | 4180  | 4671  | 3049  | 1679  | 1478  | 1562  | 1177  | 885   |
| (WY) | 1964  | 1964  | 1955  | 1956  | 1957  | 1955  | 1963  | 1963  | 1988  | 1968  | 1954  | 1954  |

| SUMMARY STATISTICS | FOR 1995 CALENDAR YEAR | FOR 1996 WATER YEAR | WATER YEARS 1931 - 1996 |
|--------------------|------------------------|---------------------|-------------------------|
|--------------------|------------------------|---------------------|-------------------------|

|                          |         |        |         |        |        |        |      |
|--------------------------|---------|--------|---------|--------|--------|--------|------|
| ANNUAL TOTAL             | 3126250 |        | 3000310 |        |        |        |      |
| ANNUAL MEAN              | 8565    |        | 8198    |        | 10090  |        |      |
| HIGHEST ANNUAL MEAN      |         |        |         |        | 19410  |        | 1949 |
| LOWEST ANNUAL MEAN       |         |        |         |        | 3718   |        | 1963 |
| HIGHEST DAILY MEAN       | 47600   | Mar 12 | 38500   | Mar 12 | 176000 | Feb 27 | 1961 |
| LOWEST DAILY MEAN        | 1080    | Sep 11 | 1310    | Aug 28 | 704    | Oct 21 | 1936 |
| ANNUAL SEVEN-DAY MINIMUM | 1100    | Sep 8  | 1360    | Aug 23 | 708    | Oct 20 | 1963 |
| INSTANTANEOUS PEAK FLOW  |         |        | 38600   | Mar 12 | 178000 | Feb 27 | 1961 |
| INSTANTANEOUS PEAK STAGE |         |        | 20.02   | Mar 12 | 30.66  | Feb 27 | 1961 |
| INSTANTANEOUS LOW FLOW   |         |        | 1240    | Sep 27 | 696    | Nov 3  | 1936 |
| ANNUAL RUNOFF (CFSM)     | 1.30    |        | 1.24    |        | 1.53   |        |      |
| ANNUAL RUNOFF (INCHES)   | 17.65   |        | 16.94   |        | 20.80  |        |      |
| 10 PERCENT EXCEEDS       | 19700   |        | 23000   |        | 25000  |        |      |
| 50 PERCENT EXCEEDS       | 4850    |        | 4070    |        | 5190   |        |      |
| 90 PERCENT EXCEEDS       | 1520    |        | 1720    |        | 1610   |        |      |

## 02479000 PASCAGOULA RIVER AT MERRILL, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY  | OCT  | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1    | 3.21 | 3.88  | 4.96  | 8.95  | 19.82 | 15.54 | 19.36 | 8.69 | 4.97 | 3.94 | 4.30 | 4.31 |
| 2    | 3.15 | 4.24  | 4.81  | 10.02 | 19.54 | 13.78 | 19.07 | 8.21 | 5.13 | 3.77 | 4.84 | 5.90 |
| 3    | 3.17 | 5.75  | 4.64  | 9.60  | 19.21 | 10.96 | 18.04 | 7.79 | 4.99 | 3.70 | 5.69 | 6.11 |
| 4    | 3.58 | 8.07  | 4.52  | 9.20  | 18.99 | 9.44  | 16.12 | 7.35 | 4.77 | 3.65 | 6.34 | 5.59 |
| 5    | 4.89 | 7.38  | 4.50  | 9.25  | 18.62 | 8.62  | 13.71 | 6.86 | 4.57 | 3.57 | 6.26 | 5.09 |
| 6    | 5.89 | 6.15  | 4.61  | 9.45  | 18.06 | 7.97  | 11.97 | 6.46 | 4.43 | 3.52 | 6.21 | 4.70 |
| 7    | 7.53 | 5.65  | 5.04  | 8.70  | 17.42 | 8.84  | 13.27 | 6.20 | 4.31 | 3.46 | 6.19 | 4.49 |
| 8    | 7.94 | 6.24  | 6.69  | 7.75  | 16.36 | 14.19 | 13.52 | 6.01 | 4.36 | 3.40 | 5.70 | 4.40 |
| 9    | 6.96 | 6.17  | 9.41  | 7.24  | 15.33 | 17.33 | 12.04 | 5.76 | 4.93 | 3.37 | 5.52 | 4.67 |
| 10   | 5.83 | 6.21  | 9.99  | 7.15  | 13.56 | 18.90 | 10.54 | 5.56 | 5.13 | 3.74 | 5.20 | 4.35 |
| 11   | 5.01 | 6.38  | 10.64 | 7.15  | 11.21 | 19.75 | 9.55  | 5.47 | 4.89 | 3.79 | 4.86 | 4.13 |
| 12   | 4.49 | 6.82  | 11.01 | 6.96  | 10.11 | 20.01 | 8.81  | 5.40 | 4.72 | 3.56 | 4.67 | 4.44 |
| 13   | 4.21 | 9.49  | 10.97 | 6.90  | 9.46  | 19.83 | 8.35  | 5.29 | 4.59 | 3.51 | 4.63 | 4.28 |
| 14   | 4.00 | 11.18 | 10.03 | 6.97  | 8.99  | 18.48 | 8.94  | 5.19 | 4.53 | 4.13 | 4.37 | 4.21 |
| 15   | 3.89 | 11.30 | 8.50  | 7.38  | 8.59  | 16.27 | 12.81 | 5.08 | 4.97 | 4.15 | 4.09 | 4.07 |
| 16   | 3.76 | 10.14 | 7.35  | 7.58  | 8.26  | 12.63 | 15.25 | 4.97 | 5.60 | 4.40 | 3.89 | 3.86 |
| 17   | 3.91 | 8.41  | 6.86  | 7.16  | 7.99  | 10.71 | 16.10 | 4.87 | 5.97 | 4.61 | 3.78 | 3.68 |
| 18   | 3.84 | 7.08  | 10.00 | 6.84  | 7.76  | 13.94 | 16.34 | 4.78 | 6.47 | 4.59 | 3.68 | 3.56 |
| 19   | 3.69 | 6.31  | 17.79 | 6.71  | 7.65  | 15.04 | 15.68 | 4.69 | 5.93 | 4.66 | 3.54 | 3.47 |
| 20   | 3.57 | 5.95  | 19.39 | 6.69  | 9.93  | 15.01 | 14.41 | 4.59 | 5.47 | 4.72 | 3.43 | 3.47 |
| 21   | 3.45 | 5.71  | 19.53 | 6.75  | 11.81 | 14.71 | 12.03 | 4.50 | 5.28 | 4.41 | 3.38 | 3.71 |
| 22   | 3.43 | 5.46  | 19.40 | 6.79  | 12.37 | 12.79 | 10.15 | 4.41 | 5.23 | 4.15 | 3.30 | 3.97 |
| 23   | 3.39 | 5.22  | 19.29 | 6.69  | 12.19 | 11.34 | 9.43  | 4.34 | 5.18 | 3.97 | 3.20 | 4.01 |
| 24   | 3.32 | 5.17  | 18.76 | 6.77  | 11.27 | 10.15 | 9.95  | 4.29 | 5.04 | 3.96 | 3.12 | 3.69 |
| 25   | 3.24 | 5.44  | 16.87 | 7.98  | 10.33 | 9.59  | 10.34 | 4.24 | 4.88 | 3.81 | 3.07 | 3.46 |
| 26   | 3.21 | 5.45  | 13.52 | 8.70  | 9.33  | 11.10 | 10.08 | 4.17 | 4.67 | 3.70 | 3.05 | 3.26 |
| 27   | 3.18 | 5.61  | 10.07 | 13.09 | 8.38  | 13.26 | 9.64  | 4.09 | 4.46 | 3.64 | 3.07 | 3.16 |
| 28   | 3.18 | 5.63  | 8.76  | 17.90 | 8.22  | 16.08 | 8.80  | 4.03 | 4.32 | 3.57 | 3.04 | 3.42 |
| 29   | 3.29 | 5.40  | 8.15  | 19.14 | 13.48 | 17.17 | 8.18  | 4.03 | 4.25 | 3.59 | 3.16 | 4.28 |
| 30   | 3.55 | 5.16  | 7.74  | 19.75 | ---   | 17.74 | 8.48  | 4.25 | 4.16 | 3.75 | 3.42 | 4.18 |
| 31   | 3.74 | ---   | 7.73  | 19.83 | ---   | 18.86 | ---   | 4.54 | ---  | 4.16 | 3.58 | ---  |
| MEAN | 4.18 | 6.57  | 10.37 | 9.39  | 12.56 | 14.19 | 12.37 | 5.36 | 4.94 | 3.90 | 4.28 | 4.20 |
| MAX  | 7.94 | 11.30 | 19.53 | 19.83 | 19.82 | 20.01 | 19.36 | 8.69 | 6.47 | 4.72 | 6.34 | 6.11 |
| MIN  | 3.15 | 3.88  | 4.50  | 6.69  | 7.65  | 7.97  | 8.18  | 4.03 | 4.16 | 3.37 | 3.04 | 3.16 |



## 02479130 BLACK CREEK NEAR BROOKLYN, MS

LOCATION.--Lat 31°03'06", long 89°12'16", 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.--Estimated daily discharges: May 5-21. Records good except for estimated daily discharges, which are poor. 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) |
|---------|------|-----------------------------------|---------------------|---------------------------------------|------|-----------------------------------|---------------------|
| Dec. 19 | 0430 | *3,150                            | *12.05              | No peaks greater than base discharge. |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1     | 73   | 222  | 168   | 342   | 788   | 1380  | 1880  | 590  | 185  | 98   | 110  | 169  |
| 2     | 73   | 327  | 165   | 493   | 916   | 847   | 1330  | 459  | 167  | 94   | 149  | 155  |
| 3     | 78   | 787  | 171   | 449   | 1260  | 636   | 922   | 369  | 228  | 90   | 149  | 176  |
| 4     | 116  | 571  | 191   | 420   | 843   | 459   | 701   | 326  | 254  | 89   | 139  | 165  |
| 5     | 191  | 347  | 237   | 328   | 674   | 392   | 608   | e300 | 221  | 86   | 154  | 133  |
| 6     | 181  | 279  | 278   | 273   | 590   | 378   | 658   | e280 | 182  | 83   | 162  | 116  |
| 7     | 144  | 243  | 329   | 240   | 485   | 633   | 896   | e260 | 163  | 80   | 152  | 111  |
| 8     | 122  | 287  | 332   | 227   | 440   | 1010  | 979   | e245 | 163  | 84   | 292  | 112  |
| 9     | 109  | 279  | 308   | 218   | 408   | 828   | 909   | e230 | 291  | 127  | 210  | 102  |
| 10    | 103  | 249  | 362   | 239   | 379   | 815   | 718   | e260 | 287  | 127  | 171  | 96   |
| 11    | 112  | 229  | 364   | 245   | 357   | 734   | 526   | e290 | 223  | 97   | 135  | 92   |
| 12    | 115  | 272  | 343   | 269   | 333   | 506   | 450   | e275 | 178  | 83   | 120  | 89   |
| 13    | 124  | 263  | 296   | 273   | 307   | 408   | 532   | e254 | 157  | 84   | 117  | 86   |
| 14    | 135  | 251  | 263   | 251   | 289   | 373   | 788   | e224 | 154  | 181  | 114  | 83   |
| 15    | 151  | 217  | 252   | 238   | 270   | 354   | 1210  | e199 | 210  | 202  | 108  | 83   |
| 16    | 149  | 194  | 245   | 232   | 246   | 339   | 1170  | e179 | 325  | 159  | 101  | 85   |
| 17    | 148  | 190  | 247   | 229   | 235   | 1370  | 1220  | e164 | 251  | 141  | 96   | 91   |
| 18    | 147  | 214  | 1060  | 241   | 229   | 2160  | 917   | e154 | 206  | 137  | 91   | 100  |
| 19    | 145  | 216  | 2680  | 282   | 254   | 1310  | 743   | e147 | 170  | 126  | 88   | 100  |
| 20    | 144  | 217  | 1350  | 255   | 1140  | 918   | 607   | e142 | 156  | 116  | 86   | 95   |
| 21    | 129  | 236  | 837   | 246   | 951   | 821   | 519   | e138 | 197  | 102  | 97   | 103  |
| 22    | 104  | 234  | 656   | 241   | 640   | 690   | 444   | 134  | 243  | 89   | 91   | 167  |
| 23    | 103  | 204  | 465   | 232   | 499   | 526   | 455   | 130  | 211  | 80   | 87   | 186  |
| 24    | 105  | 218  | 337   | 458   | 376   | 434   | 720   | 129  | 175  | 77   | 83   | 153  |
| 25    | 112  | 241  | 286   | 496   | 310   | 745   | 672   | 131  | 160  | 83   | 82   | 119  |
| 26    | 112  | 220  | 257   | 527   | 282   | 1240  | 536   | 129  | 138  | 85   | 86   | 104  |
| 27    | 112  | 197  | 242   | 2660  | 267   | 1130  | 520   | 127  | 127  | 83   | 147  | 106  |
| 28    | 117  | 184  | 231   | 1870  | 641   | 1630  | 420   | 130  | 118  | 80   | 158  | 308  |
| 29    | 124  | 176  | 226   | 1370  | 2010  | 1160  | 378   | 199  | 110  | 82   | 138  | 315  |
| 30    | 124  | 171  | 231   | 1210  | ---   | 1710  | 696   | 317  | 103  | 86   | 149  | 200  |
| 31    | 141  | ---  | 243   | 919   | ---   | 2170  | ---   | 252  | ---  | 84   | 173  | ---  |
| TOTAL | 3843 | 7935 | 13652 | 15973 | 16419 | 28106 | 23124 | 7163 | 5753 | 3215 | 4035 | 4000 |
| MEAN  | 124  | 264  | 440   | 515   | 566   | 907   | 771   | 231  | 192  | 104  | 130  | 133  |
| MAX   | 191  | 787  | 2680  | 2660  | 2010  | 2170  | 1880  | 590  | 325  | 202  | 292  | 315  |
| MIN   | 73   | 171  | 165   | 218   | 229   | 339   | 378   | 127  | 103  | 77   | 82   | 83   |
| CFSM  | .35  | .75  | 1.24  | 1.45  | 1.59  | 2.55  | 2.17  | .65  | .54  | .29  | .37  | .38  |
| IN.   | .40  | .83  | 1.43  | 1.67  | 1.72  | 2.95  | 2.42  | .75  | .60  | .34  | .42  | .42  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1996, BY WATER YEAR (WY)

|      | MEAN | 324  | 469  | 786  | 1086 | 1099 | 1078 | 1095 | 716  | 418  | 380  | 317  | 299 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| MAX  | 1142 | 944  | 2141 | 2417 | 2304 | 2025 | 3968 | 2355 | 1354 | 1056 | 866  | 896  |     |
| (WY) | 1986 | 1987 | 1972 | 1993 | 1990 | 1980 | 1983 | 1991 | 1990 | 1979 | 1987 | 1974 |     |
| MIN  | 88.8 | 140  | 351  | 248  | 441  | 439  | 235  | 168  | 112  | 104  | 130  | 86.6 |     |
| (WY) | 1983 | 1982 | 1981 | 1981 | 1989 | 1982 | 1986 | 1988 | 1985 | 1996 | 1996 | 1995 |     |

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1971 - 1996

|                          |        |        |        |
|--------------------------|--------|--------|--------|
| ANNUAL TOTAL             | 190636 | 133218 |        |
| ANNUAL MEAN              | 522    | 364    | 670    |
| HIGHEST ANNUAL MEAN      |        |        | 998    |
| LOWEST ANNUAL MEAN       |        |        | 364    |
| HIGHEST DAILY MEAN       | 3650   | Mar 8  | 32200  |
| LOWEST DAILY MEAN        | 73     | Oct 1  | 66     |
| ANNUAL SEVEN-DAY MINIMUM | 77     | Oct 1  | 69     |
| INSTANTANEOUS PEAK FLOW  |        | 73     | Jul 23 |
| INSTANTANEOUS PEAK STAGE |        | 81     | Dec 19 |
| ANNUAL RUNOFF (CFSM)     | 1.47   | 12.05  | 29.96  |
| ANNUAL RUNOFF (INCHES)   | 19.98  | 1.03   | 1.89   |
| 10 PERCENT EXCEEDS       | 1410   | 844    | 1440   |
| 50 PERCENT EXCEEDS       | 272    | 229    | 370    |
| 90 PERCENT EXCEEDS       | 103    | 93     | 128    |

e Estimated

02479155 CYPRESS CREEK NEAR JANICE, MS  
(Hydrologic bench-mark station)

LOCATION.--Lat 30°01'30", long 89°01'00", 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>.

## WATER-DISCHARGE RECORDS

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 103.00 ft above sea level.

REMARKS.--Estimated discharges: Oct. 1-3, Nov. 6, 14-15, 22, Jan. 21-22, Feb. 14-17, Jul. 9-11, Aug. 10-28, Sept. 4-6. Records good except for estimated daily discharges, which are poor. 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) |
|--------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Dec.19 | 0330 | *2,350                            | *18.76              | Mar. 18 | 0630 | 1,540                             | 15.27               |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT   | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN    | JUL   | AUG  | SEP  |
|-------|-------|------|------|------|------|------|------|------|--------|-------|------|------|
| 1     | e8.7  | 42   | 19   | 190  | 88   | 107  | 241  | 58   | 14     | 9.2   | 114  | 16   |
| 2     | e8.6  | 81   | 19   | 230  | 207  | 72   | 132  | 35   | 17     | 8.9   | 269  | 48   |
| 3     | e42   | 168  | 19   | 118  | 262  | 54   | 98   | 27   | 15     | 8.8   | 153  | 141  |
| 4     | 193   | 110  | 26   | 80   | 124  | 43   | 84   | 24   | 13     | 8.8   | 90   | e42  |
| 5     | 241   | 52   | 33   | 65   | 91   | 39   | 74   | 22   | 12     | 8.3   | 154  | e25  |
| 6     | 70    | e36  | 52   | 59   | 84   | 50   | 154  | 20   | 12     | 8.1   | 72   | e16  |
| 7     | 32    | 56   | 42   | 58   | 78   | 161  | 145  | 19   | 11     | 8.0   | 48   | 14   |
| 8     | 22    | 156  | 34   | 51   | 69   | 162  | 87   | 17   | 198    | 8.2   | 31   | 13   |
| 9     | 18    | 83   | 35   | 47   | 62   | 82   | 65   | 16   | 115    | e8.6  | 125  | 13   |
| 10    | 16    | 49   | 35   | 44   | 57   | 61   | 53   | 17   | 29     | e23   | e62  | 12   |
| 11    | 14    | 47   | 29   | 47   | 51   | 51   | 46   | 48   | 17     | e14   | e46  | 11   |
| 12    | 14    | 81   | 25   | 93   | 44   | 46   | 43   | 32   | 23     | 10    | e31  | 11   |
| 13    | 13    | 46   | 24   | 71   | 39   | 42   | 96   | 22   | 26     | 11    | e24  | 11   |
| 14    | 13    | e37  | 23   | 51   | e37  | 39   | 122  | 18   | 89     | 17    | e22  | 10   |
| 15    | 15    | e32  | 22   | 43   | e36  | 36   | 289  | 16   | 146    | 14    | e20  | 11   |
| 16    | 14    | 25   | 22   | 40   | e35  | 34   | 156  | 15   | 160    | 15    | e18  | 13   |
| 17    | 13    | 22   | 86   | 38   | e34  | 285  | 81   | 14   | 50     | 34    | e17  | 13   |
| 18    | 13    | 24   | 1080 | 40   | 33   | 1050 | 69   | 14   | 52     | 17    | e16  | 12   |
| 19    | 14    | 25   | 1610 | 55   | 45   | 350  | 83   | 13   | 130    | 12    | e15  | 11   |
| 20    | 14    | 29   | 268  | 49   | 155  | 148  | 69   | 13   | 102    | 10    | e14  | 11   |
| 21    | 14    | 36   | 144  | e41  | 93   | 105  | 54   | 12   | 63     | 9.2   | e14  | 33   |
| 22    | 14    | e30  | 109  | e38  | 59   | 86   | 43   | 12   | 35     | 8.9   | e13  | 42   |
| 23    | 15    | 24   | 89   | 36   | 45   | 73   | 82   | 11   | 44     | 10    | e12  | 20   |
| 24    | 15    | 59   | 76   | 137  | 38   | 63   | 106  | 11   | 23     | 12    | e12  | 14   |
| 25    | 15    | 46   | 68   | 140  | 33   | 124  | 58   | 11   | 17     | 17    | e12  | 13   |
| 26    | 15    | 32   | 62   | 112  | 31   | 166  | 44   | 10   | 15     | 15    | e11  | 11   |
| 27    | 16    | 26   | 57   | 772  | 31   | 260  | 49   | 10   | 13     | 15    | e11  | 14   |
| 28    | 16    | 24   | 52   | 264  | 154  | 420  | 36   | 12   | 12     | 15    | e16  | 25   |
| 29    | 16    | 22   | 48   | 136  | 261  | 173  | 35   | 23   | 11     | 14    | 18   | 22   |
| 30    | 17    | 20   | 46   | 127  | ---  | 473  | 91   | 22   | 9.8    | 15    | 19   | 16   |
| 31    | 23    | ---  | 74   | 109  | ---  | 465  | ---  | 16   | ---    | 18    | 18   | ---  |
| TOTAL | 964.3 | 1520 | 4328 | 3381 | 2376 | 5320 | 2785 | 610  | 1473.8 | 403.0 | 1497 | 664  |
| MEAN  | 31.1  | 50.7 | 140  | 109  | 81.9 | 172  | 92.8 | 19.7 | 49.1   | 13.0  | 48.3 | 22.1 |
| MAX   | 241   | 168  | 1610 | 772  | 262  | 1050 | 289  | 58   | 198    | 34    | 269  | 141  |
| MIN   | 8.6   | 20   | 19   | 36   | 31   | 34   | 35   | 10   | 9.8    | 8.0   | 11   | 10   |
| CFSM  | .59   | .96  | 2.65 | 2.07 | 1.56 | 3.26 | 1.76 | .37  | .93    | .25   | .92  | .42  |
| IN.   | .68   | 1.07 | 3.06 | 2.39 | 1.68 | 3.76 | 1.97 | .43  | 1.04   | .29   | 1.06 | .47  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1996, BY WATER YEAR (WY)

|      | 1967 | 1968 | 1969 | 1970 | 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 |  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| MEAN | 39.4 | 64.2 | 123  | 162  | 172  | 178  | 167  | 102  | 47.9 | 47.1 | 43.8 | 48.2 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| 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 | 42.8 | 42.3 | 30.2 | 15.2 | 8.78 | 7.59 | 7.20 | 7.23 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
| (WY) | 1969 | 1982 | 1991 | 1981 | 1989 | 1982 | 1986 | 1985 | 1968 | 1968 | 1981 | 1972 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |

## SUMMARY STATISTICS

## FOR 1995 CALENDAR YEAR

## FOR 1996 WATER YEAR

## WATER YEARS 1967 - 1996

|                          | 1995    | 1996    | 1967-1996 |
|--------------------------|---------|---------|-----------|
| ANNUAL TOTAL             | 34461.7 | 25322.1 |           |
| ANNUAL MEAN              | 94.4    | 69.2    | 99.3      |
| HIGHEST ANNUAL MEAN      |         |         | 175       |
| LOWEST ANNUAL MEAN       |         |         | 49.3      |
| HIGHEST DAILY MEAN       | 1610    | 1610    | 8820      |
| LOWEST DAILY MEAN        | 7.9     | 8.0     | 4.2       |
| ANNUAL SEVEN-DAY MINIMUM | 8.1     | 8.4     | 4.5       |
| INSTANTANEOUS PEAK FLOW  |         | 2350    | 13000     |
| INSTANTANEOUS PEAK STAGE |         | 18.76   | 29.51     |
| INSTANTANEOUS LOW FLOW   |         | 7.8     | 4.5       |
| ANNUAL RUNOFF (CFSM)     | 1.79    | 1.32    | 1.89      |
| ANNUAL RUNOFF (INCHES)   | 24.37   | 17.91   | 25.64     |
| 10 PERCENT EXCEEDS       | 225     | 149     | 202       |
| 50 PERCENT EXCEEDS       | 42      | 35      | 38        |
| 90 PERCENT EXCEEDS       | 12      | 12      | 11        |

e Estimated

## PASCAGOULA RIVER BASIN

02479155 CYPRESS CREEK NEAR JANICE, MS--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE      | TIME  | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)   | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)           | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)          | TEMPER-A-TURE WATER (DEG C) (00010)                    | TUR-BID-ITY (NTU) (00076)                   | OXYGEN, DIS-SOLVED (MG/L) (00300)                 | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | COLI-FORM, FECAL, 0.7 UM-MF (31625)               | STREP-TOCOCCI, KF AGAR (COLS./ 100 ML) (31673)          | CALCIUM DIS-SOLVED (MG/L AS CA) (00915)                 | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)       |                                                     |
|-----------|-------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------|---------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------|
|           |       |                                                   |                                                   |                                                         |                                                        |                                             |                                                   |                                                   |                                                   |                                                         |                                                         |                                                   |                                                     |
| NOV 29... | 1230  | 22                                                | 19                                                | 5.5                                                     | 13.0                                                   | 1.7                                         | --                                                | --                                                | 77                                                | K58                                                     | 0.65                                                    | 0.51                                              |                                                     |
| AUG 22... | 1345  | E13                                               | 17                                                | 5.6                                                     | 26.0                                                   | 1.4                                         | 9.3                                               | 114                                               | 110                                               | 230                                                     | 0.48                                                    | 0.37                                              |                                                     |
| DATE      |       | SODIUM, DIS-SOLVED (MG/L AS NA) (00930)           | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)        | BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)    | ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CAC03 (39086) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945)    | 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)         | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300) | SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)        |
| NOV 29... | 2.2   | 0.40                                              | 2                                                 | 2                                                       | 1.0                                                    | 3.5                                         | <0.10                                             | 13                                                | 20                                                | 23                                                      | 0.010                                                   | 0.100                                             |                                                     |
| AUG 22... | 2.0   | 0.40                                              | --                                                | --                                                      | 0.70                                                   | 2.9                                         | <0.10                                             | 9.7                                               | 25                                                | 19                                                      | <0.010                                                  | 0.160                                             |                                                     |
| DATE      |       | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625) | PHOS-PHORUS TOTAL (MG/L AS P) (00665)                  | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)  | PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671) | ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)        | BARIUM, DIS-SOLVED (UG/L AS BA) (01005)           | COBALT, DIS-SOLVED (UG/L AS CO) (01035)                 | IRON, DIS-SOLVED (UG/L AS FE) (01046)                   | LITHIUM DIS-SOLVED (UG/L AS LI) (01130)           | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)         |
| NOV 29... | 0.100 | <0.015                                            | 0.20                                              | 0.020                                                   | <0.010                                                 | <0.010                                      | 130                                               | 28                                                | <3.0                                              | 150                                                     | <4                                                      | 38                                                |                                                     |
| AUG 22... | 0.160 | <0.015                                            | 0.20                                              | 0.030                                                   | <0.010                                                 | <0.010                                      | 59                                                | 19                                                | <3.0                                              | 150                                                     | 5                                                       | 14                                                |                                                     |
| DATE      |       | MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)      | NICKEL, DIS-SOLVED (UG/L AS NI) (01065)           | SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)              | SILVER, DIS-SOLVED (UG/L AS AG) (01075)                | STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080) | VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)         | SEDI-MENT, SUS-PENDED (MG/L) (80154)              | SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155) | RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L) (09511)    | RA-226 2 SIGMA WATER, DISS, (PCI/L) (76001)             | URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)    | URANIUM NATURAL 2 SIGMA WATER, DISS, (UG/L) (75990) |
| NOV 29... | <10   | <1.0                                              | <1                                                | <1.0                                                    | 8.0                                                    | <6                                          | 8                                                 | 0.48                                              | 0.08                                              | 0.020                                                   | 0.02                                                    | 0.0                                               |                                                     |
| AUG 22... | <10   | <1.0                                              | <1                                                | <1.0                                                    | 6.0                                                    | <6                                          | 5                                                 | --                                                | --                                                | --                                                      | --                                                      | --                                                |                                                     |

## 02479160 BLACK CREEK NEAR WIGGINS, MS

LOCATION.--Lat 30°51'12", long 88°54'49", in 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.--Estimated daily discharges: Apr. 25-26, Sept. 10-17. Records good except for periods of estimated discharge, which are poor.

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) |
|---------|------|-----------------------------------|---------------------|---------------------------------------|------|-----------------------------------|---------------------|
| Dec. 19 | 2030 | *6,960                            | 17.83               | No peaks greater than base discharge. |      |                                   |                     |
| Dec. 20 | 0100 | (a)                               | *18.09              |                                       |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT  | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL  | AUG   | SEP  |
|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|
| 1     | 179  | 312   | 280   | 1600  | 1580  | 2900  | 4040  | 1270  | 411   | 205  | 355   | 294  |
| 2     | 178  | 548   | 276   | 1950  | 1800  | 1840  | 2790  | 979   | 336   | 196  | 1380  | 344  |
| 3     | 183  | 1430  | 270   | 1450  | 2820  | 1340  | 2020  | 787   | 312   | 193  | 1640  | 665  |
| 4     | 426  | 1620  | 274   | 1110  | 2220  | 1040  | 1600  | 661   | 371   | 209  | 835   | 521  |
| 5     | 1010 | 938   | 321   | 935   | 1580  | 840   | 1370  | 586   | 382   | 195  | 698   | 344  |
| 6     | 708  | 612   | 435   | 771   | 1350  | 800   | 1830  | 536   | 353   | 183  | 906   | 258  |
| 7     | 425  | 508   | 545   | 695   | 1220  | 1080  | 2160  | 493   | 312   | 176  | 784   | 222  |
| 8     | 305  | 650   | 560   | 615   | 1070  | 1960  | 1830  | 457   | 547   | 178  | 555   | 204  |
| 9     | 254  | 703   | 532   | 557   | 983   | 1630  | 1680  | 424   | 813   | 214  | 861   | 211  |
| 10    | 228  | 523   | 523   | 539   | 914   | 1350  | 1410  | 404   | 553   | 498  | 684   | e210 |
| 11    | 212  | 454   | 557   | 547   | 851   | 1290  | 1180  | 455   | 445   | 365  | 488   | e200 |
| 12    | 209  | 510   | 531   | 632   | 784   | 1100  | 987   | 490   | 350   | 247  | 409   | e190 |
| 13    | 212  | 559   | 492   | 689   | 717   | 857   | 987   | 455   | 368   | 203  | 384   | e190 |
| 14    | 223  | 485   | 434   | 605   | 672   | 767   | 1560  | 403   | 374   | 356  | 305   | e190 |
| 15    | 236  | 429   | 399   | 487   | 645   | 715   | 2840  | 368   | 649   | 389  | 267   | e200 |
| 16    | 253  | 374   | 386   | 520   | 602   | 677   | 2690  | 345   | 1100  | 475  | 239   | e210 |
| 17    | 251  | 335   | 404   | 502   | 557   | 1220  | 1990  | 325   | 869   | 801  | 220   | e210 |
| 18    | 245  | 321   | 3760  | 513   | 530   | 5280  | 1750  | 312   | 554   | 417  | 207   | 196  |
| 19    | 243  | 340   | 6190  | 575   | 734   | 5320  | 1530  | 295   | 516   | 319  | 196   | 189  |
| 20    | 238  | 340   | 5090  | 648   | 1760  | 2460  | 1350  | 278   | 598   | 266  | 191   | 185  |
| 21    | 231  | 384   | 2160  | 564   | 2200  | 1770  | 1140  | 270   | 638   | 238  | 187   | 185  |
| 22    | 217  | 398   | 1520  | 528   | 1480  | 1500  | 974   | 259   | 623   | 219  | 186   | 272  |
| 23    | 191  | 372   | 1210  | 507   | 1120  | 1250  | 902   | 252   | 597   | 198  | 183   | 317  |
| 24    | 189  | 385   | 911   | 685   | 918   | 1030  | 1350  | 245   | 470   | 204  | 175   | 301  |
| 25    | 189  | 463   | 765   | 1370  | 750   | 1150  | e1300 | 236   | 362   | 274  | 178   | 245  |
| 26    | 190  | 435   | 667   | 1090  | 660   | 2510  | e1100 | 233   | 338   | 265  | 170   | 201  |
| 27    | 194  | 377   | 620   | 3670  | 612   | 2670  | 1000  | 232   | 292   | 251  | 171   | 196  |
| 28    | 201  | 334   | 567   | 4840  | 925   | 4010  | 921   | 229   | 261   | 251  | 235   | 361  |
| 29    | 206  | 311   | 532   | 2780  | 3330  | 2910  | 796   | 283   | 238   | 235  | 273   | 569  |
| 30    | 206  | 293   | 504   | 2230  | ---   | 3430  | 1160  | 547   | 218   | 225  | 259   | 443  |
| 31    | 210  | ---   | 744   | 1920  | ---   | 5190  | ---   | 560   | ---   | 242  | 270   | ---  |
| TOTAL | 8442 | 15743 | 32459 | 36124 | 35384 | 61886 | 48237 | 13669 | 14250 | 8687 | 13891 | 8323 |
| MEAN  | 272  | 525   | 1047  | 1165  | 1220  | 1996  | 1608  | 441   | 475   | 280  | 448   | 277  |
| MAX   | 1010 | 1620  | 6190  | 4840  | 3330  | 5320  | 4040  | 1270  | 1100  | 801  | 1640  | 665  |
| MIN   | 178  | 293   | 270   | 487   | 530   | 677   | 796   | 229   | 218   | 176  | 170   | 185  |
| CFSM  | .39  | .75   | 1.49  | 1.66  | 1.74  | 2.85  | 2.29  | .63   | .68   | .40  | .64   | .40  |
| IN.   | .45  | .84   | 1.72  | 1.92  | 1.88  | 3.28  | 2.56  | .73   | .76   | .46  | .74   | .44  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1996, BY WATER YEAR (WY)

|      | 600  | 948  | 1546 | 2161 | 2274 | 2279 | 2341 | 1487 | 845  | 753  | 656  | 657  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 600  | 948  | 1546 | 2161 | 2274 | 2279 | 2341 | 1487 | 845  | 753  | 656  | 657  |
| MAX  | 2574 | 2354 | 4218 | 4909 | 5287 | 3986 | 7713 | 5400 | 2353 | 1940 | 1960 | 2277 |
| (WY) | 1976 | 1986 | 1972 | 1993 | 1990 | 1980 | 1991 | 1989 | 1979 | 1975 | 1979 |      |
| MIN  | 154  | 242  | 584  | 450  | 705  | 828  | 525  | 356  | 229  | 280  | 254  | 203  |
| (WY) | 1982 | 1982 | 1991 | 1981 | 1989 | 1982 | 1986 | 1988 | 1985 | 1996 | 1994 | 1995 |

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1972 - 1996

|                          |        |        |       |
|--------------------------|--------|--------|-------|
| ANNUAL TOTAL             | 432059 | 297095 |       |
| ANNUAL MEAN              | 1184   | 812    | 1374  |
| HIGHEST ANNUAL MEAN      |        |        | 2307  |
| LOWEST ANNUAL MEAN       |        |        | 767   |
| HIGHEST DAILY MEAN       | 7060   | Mar 9  | 6190  |
| LOWEST DAILY MEAN        | 165    | Sep 9  | 170   |
| ANNUAL SEVEN-DAY MINIMUM | 167    | Sep 6  | 179   |
| INSTANTANEOUS PEAK FLOW  |        |        | 6960  |
| INSTANTANEOUS PEAK STAGE |        |        | 18.09 |
| INSTANTANEOUS LOW FLOW   |        |        | 167   |
| ANNUAL RUNOFF (CFSM)     | 1.69   | 1.16   | 1.96  |
| ANNUAL RUNOFF (INCHES)   | 22.93  | 15.77  | 26.64 |
| 10 PERCENT EXCEEDS       | 3180   | 1780   | 3030  |
| 50 PERCENT EXCEEDS       | 572    | 507    | 758   |
| 90 PERCENT EXCEEDS       | 205    | 202    | 253   |

e Estimated

a Slope affected discharge

## PASCAGOULA RIVER BASIN

02479300 RED CREEK AT VESTRY, MS

LOCATION.--Lat 30°44'10", long 88°46'50", 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.--Estimated daily discharge: Oct. 2, 4-11, 15-16, Jan 15-24, Jul. 14, Jul. 20 - Aug. 1. Records good except for estimated daily discharges, which are poor.

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) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Dec. 20 | 0600 | *6,690                            | *15.17              | Apr. 17 | 0030 | 4,680                             | 14.05               |
| Apr. 1  | 1245 | 4,400                             | 13.89               |         |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT  | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN  | JUL  | AUG   | SEP  |
|-------|------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|------|
| 1     | 162  | 196   | 236   | 1760  | 1050  | 1810  | 4340  | 960   | 314  | 172  | e610  | 319  |
| 2     | e160 | 415   | 221   | 3760  | 1150  | 1490  | 3450  | 790   | 375  | 163  | 591   | 329  |
| 3     | 163  | 1160  | 214   | 3220  | 2150  | 1090  | 1910  | 593   | 328  | 162  | 1330  | 767  |
| 4     | e250 | 1490  | 212   | 1680  | 2090  | 807   | 1210  | 497   | 324  | 158  | 1640  | 606  |
| 5     | e450 | 1010  | 213   | 1040  | 1420  | 687   | 974   | 452   | 291  | 155  | 969   | 404  |
| 6     | e600 | 632   | 289   | 783   | 1020  | 634   | 1190  | 419   | 283  | 151  | 730   | 322  |
| 7     | e480 | 504   | 464   | 660   | 841   | 713   | 2280  | 398   | 251  | 147  | 710   | 287  |
| 8     | e330 | 671   | 393   | 601   | 747   | 1080  | 2350  | 374   | 278  | 143  | 557   | 267  |
| 9     | e270 | 530   | 350   | 540   | 674   | 1010  | 1440  | 352   | 309  | 156  | 894   | 252  |
| 10    | e235 | 484   | 327   | 504   | 621   | 781   | 1010  | 336   | 261  | 232  | 1200  | 240  |
| 11    | e215 | 470   | 303   | 475   | 566   | 648   | 812   | 345   | 234  | 288  | 867   | 232  |
| 12    | 202  | 462   | 281   | 471   | 501   | 573   | 709   | 393   | 223  | 211  | 638   | 222  |
| 13    | 195  | 427   | 265   | 490   | 462   | 531   | 677   | 406   | 221  | 186  | 499   | 214  |
| 14    | 190  | 415   | 256   | 464   | 437   | 513   | 927   | 384   | 237  | e570 | 447   | 207  |
| 15    | e190 | 393   | 248   | e430  | 418   | 507   | 3620  | 340   | 343  | 1080 | 401   | 206  |
| 16    | e195 | 373   | 259   | e390  | 396   | 487   | 4570  | 314   | 434  | 537  | 346   | 226  |
| 17    | 188  | 354   | 281   | e370  | 378   | 537   | 4230  | 298   | 629  | 644  | 308   | 243  |
| 18    | 183  | 340   | 2720  | e390  | 366   | 1580  | 2030  | 283   | 483  | 463  | 288   | 235  |
| 19    | 178  | 328   | 5750  | e430  | 382   | 2500  | 1260  | 271   | 375  | 325  | 271   | 223  |
| 20    | 177  | 319   | 6420  | e425  | 2290  | 2750  | 1130  | 260   | 356  | e270 | 265   | 213  |
| 21    | 172  | 314   | 4980  | e410  | 3340  | 2090  | 968   | 250   | 372  | e240 | 269   | 243  |
| 22    | 168  | 310   | 2950  | e385  | 2040  | 1220  | 822   | 244   | 330  | e210 | 262   | 855  |
| 23    | 167  | 303   | 1420  | e380  | 1240  | 838   | 733   | 233   | 310  | e190 | 254   | 572  |
| 24    | 167  | 311   | 904   | e580  | 866   | 699   | 723   | 224   | 271  | e230 | 248   | 356  |
| 25    | 168  | 331   | 706   | 788   | 691   | 767   | 679   | 217   | 230  | e400 | 245   | 282  |
| 26    | 167  | 321   | 598   | 794   | 610   | 1040  | 622   | 213   | 219  | e260 | 329   | 249  |
| 27    | 167  | 305   | 536   | 1600  | 559   | 1400  | 572   | 209   | 228  | e240 | 680   | 234  |
| 28    | 169  | 283   | 483   | 2850  | 562   | 3030  | 546   | 206   | 214  | e230 | 718   | 272  |
| 29    | 181  | 285   | 450   | 2840  | 1430  | 3280  | 698   | 211   | 198  | e220 | 440   | 454  |
| 30    | 184  | 264   | 427   | 2030  | ---   | 2960  | 1230  | 246   | 178  | e215 | 358   | 377  |
| 31    | 188  | ---   | 437   | 1480  | ---   | 4080  | ---   | 318   | ---  | e400 | 332   | ---  |
| TOTAL | 6911 | 14000 | 33593 | 33020 | 29297 | 42132 | 47712 | 11036 | 9099 | 9048 | 17696 | 9908 |
| MEAN  | 223  | 467   | 1084  | 1065  | 1010  | 1359  | 1590  | 356   | 303  | 292  | 571   | 330  |
| MAX   | 600  | 1490  | 6420  | 3760  | 3340  | 4080  | 4570  | 960   | 629  | 1080 | 1640  | 855  |
| MIN   | 160  | 196   | 212   | 370   | 366   | 487   | 546   | 206   | 178  | 143  | 245   | 206  |
| CFSM  | .51  | 1.06  | 2.46  | 2.42  | 2.29  | 3.08  | 3.61  | .81   | .69  | .66  | 1.29  | .75  |
| IN.   | .58  | 1.18  | 2.83  | 2.79  | 2.47  | 3.55  | 4.02  | .93   | .77  | .76  | 1.49  | .84  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1996, BY WATER YEAR (WY)

|      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 401  | 566  | 974  | 1291 | 1505 | 1425 | 1304 | 930  | 568  | 553  | 583  | 554  |
| MAX  | 1801 | 1798 | 3933 | 3379 | 3478 | 3049 | 4692 | 4464 | 2159 | 1855 | 2994 | 1692 |
| (WY) | 1976 | 1962 | 1962 | 1993 | 1990 | 1961 | 1980 | 1991 | 1959 | 1989 | 1987 | 1979 |
| MIN  | 95.9 | 118  | 266  | 266  | 380  | 385  | 204  | 189  | 140  | 160  | 169  | 143  |
| (WY) | 1964 | 1964 | 1982 | 1981 | 1989 | 1967 | 1963 | 1963 | 1985 | 1968 | 1981 | 1972 |

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1958 - 1996

|                          |        |        |       |
|--------------------------|--------|--------|-------|
| ANNUAL TOTAL             | 388372 | 263452 |       |
| ANNUAL MEAN              | 1064   | 720    | 883   |
| HIGHEST ANNUAL MEAN      |        |        | 1492  |
| LOWEST ANNUAL MEAN       |        |        | 358   |
| HIGHEST DAILY MEAN       | 7310   | May 11 | 25100 |
| LOWEST DAILY MEAN        | 155    | Sep 12 | 89    |
| ANNUAL SEVEN-DAY MINIMUM | 164    | Sep 8  | 90    |
| INSTANTANEOUS PEAK FLOW  |        |        | 28000 |
| INSTANTANEOUS PEAK STAGE |        | 15.17  | 21.48 |
| INSTANTANEOUS LOW FLOW   |        | 133    | 88    |
| ANNUAL RUNOFF (CFSM)     | 2.41   | 1.63   | 2.00  |
| ANNUAL RUNOFF (INCHES)   | 32.76  | 22.22  | 27.20 |
| 10 PERCENT EXCEEDS       | 3210   | 1590   | 1950  |
| 50 PERCENT EXCEEDS       | 464    | 400    | 478   |
| 90 PERCENT EXCEEDS       | 184    | 201    | 184   |

e Estimated



## 02479310 PASCAGOULA RIVER AT GRAHAM FERRY, MS

LOCATION.--Lat 30°36'38", long 88°38'28", in sec.13, 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. Discharge measurements were made in 1958-59, 1961, 1971-72, 1979, and 1987 by USGS.

GAGE.--Water-stage recorder and Acoustic Velocity meter. Datum of gage is 0.0 ft above sea level. Levels by Global Positioning System.

REMARKS.--Estimated daily discharges: Jan. 5-9, Aug. 26 - Sept. 30. Records good above 7.0 ft and fair below 7.0 ft 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 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT   | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL   | AUG    | SEP   |
|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|
| 1     | 2010  | 2480   | 4430   | 11200  | 41700  | 17000  | 43800  | 12400  | 3430   | 2600  | 3170   | e2300 |
| 2     | 1920  | 3050   | 4120   | 15000  | 43400  | 22600  | 45200  | 12100  | 3850   | 2430  | 4040   | e2400 |
| 3     | 1870  | 5250   | 3910   | 17700  | 43400  | 24800  | 45500  | 11000  | 4090   | 2310  | 6020   | e3200 |
| 4     | 2350  | 8050   | 3700   | 18200  | 43200  | 21800  | 42800  | 9630   | 4050   | 2300  | 8330   | e5800 |
| 5     | 3550  | 10000  | 3620   | e14000 | 42700  | 17000  | 37000  | 7120   | 3760   | 2280  | 9060   | e5800 |
| 6     | 5500  | 9560   | 3670   | e11000 | 40800  | 13400  | 30600  | 5910   | 3460   | 2160  | 7990   | e4700 |
| 7     | 6020  | 7040   | 4140   | e11000 | 37900  | 11200  | 25600  | 4950   | 3320   | 2010  | 7630   | e3900 |
| 8     | 7170  | 6200   | 4680   | e11000 | 34900  | 11900  | 23800  | 4160   | 3430   | 2040  | 7270   | e3400 |
| 9     | 7520  | 6630   | 6720   | e9800  | 32100  | 17300  | 24000  | 3620   | 3560   | 2030  | 6450   | e3200 |
| 10    | 6430  | 6350   | 9810   | 8650   | 29200  | 22900  | 22300  | 3540   | 4190   | 2150  | 6740   | e3100 |
| 11    | 5050  | 6240   | 11000  | 8150   | 25800  | 27500  | 18900  | 3440   | 4230   | 2630  | 6570   | e3300 |
| 12    | 4050  | 6510   | 12300  | 7990   | 21000  | 31400  | 15300  | 3470   | 3840   | 2730  | 5440   | e3000 |
| 13    | 3430  | 7260   | 13100  | 7810   | 16500  | 35100  | 12800  | 3350   | 3560   | 2510  | 4650   | e2700 |
| 14    | 3090  | 10200  | 13400  | 7710   | 13600  | 37500  | 11500  | 3400   | 3560   | 2810  | 4210   | e3000 |
| 15    | 2830  | 12400  | 12600  | 7710   | 11900  | 37000  | 14800  | 2990   | 3600   | 3960  | 3750   | e2900 |
| 16    | 2690  | 13400  | 10500  | 8100   | 10600  | 33200  | 21100  | 3150   | 4370   | 4140  | 3340   | e2800 |
| 17    | 2560  | 12500  | 8230   | 8540   | 9690   | 26800  | 28100  | 2900   | 5490   | 4370  | 3000   | e2700 |
| 18    | 2660  | 10300  | 10600  | 7750   | 9130   | 21700  | 31400  | 2440   | 6170   | 4520  | 2770   | e2500 |
| 19    | 2580  | 7590   | 18900  | 7430   | 8840   | 22600  | 31600  | 2020   | 6380   | 4040  | 2670   | e2300 |
| 20    | 2530  | 6280   | 31900  | 7120   | 10500  | 26100  | 29900  | 1970   | 5860   | 3790  | 2460   | e2200 |
| 21    | 2330  | 5560   | 42500  | 7130   | 14600  | 28600  | 27600  | 2050   | 5220   | 3620  | 2380   | e2100 |
| 22    | 2200  | 5190   | 45500  | 7180   | 18100  | 29400  | 23300  | 2700   | 5090   | 3230  | 2360   | e2200 |
| 23    | 2130  | 4860   | 44100  | 7060   | 20200  | 26400  | 18600  | 3060   | 4850   | 2950  | 2260   | e3100 |
| 24    | 2220  | 4710   | 40700  | 7080   | 20000  | 21500  | 15100  | 2970   | 4610   | 3010  | 2120   | e3100 |
| 25    | 2060  | 4690   | 37300  | 7780   | 18100  | 17700  | 13900  | 2880   | 4180   | 3550  | 1960   | e2900 |
| 26    | 1980  | 4960   | 33800  | 9860   | 15500  | 15800  | 13900  | 2860   | 3810   | 3710  | e1900  | e2500 |
| 27    | 1970  | 4970   | 28400  | 12600  | 13100  | 17300  | 13600  | 2820   | 3460   | 3430  | e1900  | e2200 |
| 28    | 2060  | 5070   | 21300  | 18000  | 11100  | 21400  | 12800  | 2770   | 3150   | 3340  | e2200  | e2000 |
| 29    | 2010  | 5010   | 15400  | 25100  | 11300  | 26800  | 11900  | 2680   | 2960   | 3160  | e2400  | e2100 |
| 30    | 2040  | 4710   | 11900  | 32400  | ---    | 35100  | 12200  | 2710   | 2800   | 2950  | e2100  | e2700 |
| 31    | 2220  | ---    | 10000  | 39000  | ---    | 41000  | ---    | 3100   | ---    | 2930  | e2100  | ---   |
| TOTAL | 99030 | 207020 | 522230 | 379050 | 668860 | 759800 | 718900 | 134160 | 124330 | 93690 | 129240 | 90100 |
| MEAN  | 3195  | 6901   | 16850  | 12230  | 23060  | 24510  | 23960  | 4328   | 4144   | 3022  | 4169   | 3003  |
| MAX   | 7520  | 13400  | 45500  | 39000  | 43400  | 41000  | 45500  | 12400  | 6380   | 4520  | 9060   | 5800  |
| MIN   | 1870  | 2480   | 3620   | 7060   | 8840   | 11200  | 11500  | 1970   | 2800   | 2010  | 1900   | 2000  |
| CFSM  | .39   | .84    | 2.05   | 1.49   | 2.81   | 2.99   | 2.92   | .53    | .51    | .37   | .51    | .37   |
| IN.   | .45   | .94    | 2.37   | 1.72   | 3.03   | 3.45   | 3.26   | .61    | .56    | .42   | .59    | .41   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1996, BY WATER YEAR (WY)

|      | 1994 | 1995  | 1996  | 1997  | 1998  | 1999  | 2000  | 2001  | 2002 | 2003  | 2004 | 2005 |
|------|------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|------|
| MEAN | 3188 | 8761  | 14550 | 13610 | 27620 | 26510 | 22850 | 9647  | 6112 | 6489  | 3925 | 2572 |
| MAX  | 3952 | 15790 | 16850 | 14390 | 40350 | 30550 | 25440 | 16650 | 7830 | 13160 | 4169 | 3003 |
| (WY) | 1995 | 1994  | 1996  | 1995  | 1994  | 1995  | 1994  | 1995  | 1995 | 1994  | 1996 | 1996 |
| MIN  | 2417 | 3589  | 12660 | 12230 | 19620 | 24460 | 19130 | 4328  | 4144 | 3022  | 3602 | 1867 |
| (WY) | 1994 | 1995  | 1994  | 1996  | 1995  | 1994  | 1995  | 1996  | 1996 | 1996  | 1994 | 1995 |

## SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1994 - 1996

|                          | 1995    | 1996    | 1997  | 1998          | 1999  | 2000   | 2001  | 2002  | 2003  | 2004  | 2005  |
|--------------------------|---------|---------|-------|---------------|-------|--------|-------|-------|-------|-------|-------|
| ANNUAL TOTAL             | 4377950 | 3926410 | 12060 | 13910         | 1994  | 10730  | 10730 | 10730 | 10730 | 10730 | 10730 |
| ANNUAL MEAN              | 11990   | 10730   | 12060 | 13910         | 1994  | 10730  | 10730 | 10730 | 10730 | 10730 | 10730 |
| HIGHEST ANNUAL MEAN      |         |         |       |               |       |        |       |       |       |       |       |
| LOWEST ANNUAL MEAN       |         |         |       |               |       |        |       |       |       |       |       |
| HIGHEST DAILY MEAN       | 49400   | Mar 12  | 45500 | Dec 22, Apr 3 | 63500 | Feb 4  | 1994  |       |       |       |       |
| LOWEST DAILY MEAN        | 1440    | Sep 12  | 1870  | Oct 3         | 1440  | Sep 12 | 1995  |       |       |       |       |
| ANNUAL SEVEN-DAY MINIMUM | 1580    | Sep 9   | 2050  | Oct 24        | 1580  | Sep 9  | 1995  |       |       |       |       |
| INSTANTANEOUS PEAK FLOW  |         |         | 46400 | Apr 3         | 64300 | Feb 4  | 1994  |       |       |       |       |
| INSTANTANEOUS PEAK STAGE |         |         | 15.26 | Apr 3         | 16.19 | Feb 4  | 1994  |       |       |       |       |
| INSTANTANEOUS LOW FLOW   |         |         | 1300  | Oct 2         | 1300  | Oct 2  | 1995  |       |       |       |       |
| ANNUAL RUNOFF (CFSM)     | 1.46    |         | 1.31  |               | 1.47  |        |       |       |       |       |       |
| ANNUAL RUNOFF (INCHES)   | 19.85   |         | 17.80 |               | 19.98 |        |       |       |       |       |       |
| 10 PERCENT EXCEEDS       | 30900   |         | 28800 |               | 30900 |        |       |       |       |       |       |
| 50 PERCENT EXCEEDS       | 6970    |         | 5830  |               | 7120  |        |       |       |       |       |       |
| 90 PERCENT EXCEEDS       | 2150    |         | 2290  |               | 2400  |        |       |       |       |       |       |

e Estimated

## 02479560 ESCATAWPA RIVER NEAR AGRICOLA, MS

LOCATION.--Lat 30°48'12", long 88°27'31", in SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec. 2, T. 3 S., R. 5 W., George County, MS, 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.

GAGE.--Water-stage recorder. Elevation of gage is 50 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Feb. 2 to Mar. 13. Records good except for periods of estimated record, which are poor.

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 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 1     | 144   | 267   | 425   | 3000  | 3710  | e1600 | 5040  | 2450  | 395   | 175   | 207   | 504  |
| 2     | 142   | 765   | 388   | 5340  | e2900 | e1400 | 4330  | 1620  | 326   | 165   | 352   | 455  |
| 3     | 187   | 2440  | 365   | 4740  | e4500 | e1200 | 3690  | 1130  | 331   | 158   | 1270  | 394  |
| 4     | 973   | 2050  | 349   | 3660  | e3800 | e1000 | 2660  | 865   | 503   | 204   | 1490  | 358  |
| 5     | 3370  | 1190  | 351   | 2570  | e3000 | e800  | 1980  | 716   | 409   | 189   | 865   | 346  |
| 6     | 2690  | 833   | 354   | 1980  | e1700 | e900  | 1870  | 625   | 334   | 165   | 839   | 335  |
| 7     | 1140  | 699   | 420   | 1700  | e1300 | e1000 | 2260  | 565   | 336   | 151   | 1300  | 289  |
| 8     | 665   | 1090  | 544   | 1460  | e1200 | e1500 | 2070  | 518   | 478   | 154   | 1280  | 255  |
| 9     | 468   | 975   | 596   | 1260  | e1100 | e1700 | 2030  | 478   | 397   | 290   | 917   | 274  |
| 10    | 375   | 812   | 607   | 1090  | e1000 | e1500 | 1920  | 447   | 344   | 326   | 742   | 249  |
| 11    | 324   | 799   | 590   | 971   | e950  | e1400 | 1540  | 469   | 298   | 298   | 504   | 212  |
| 12    | 294   | 882   | 538   | 1030  | e900  | e1300 | 1250  | 535   | 261   | 223   | 536   | 198  |
| 13    | 275   | 753   | 484   | 985   | e850  | e1200 | 1180  | 491   | 248   | 305   | 519   | 186  |
| 14    | 251   | 633   | 442   | 927   | e800  | 1030  | 1230  | 428   | 268   | 818   | 414   | 180  |
| 15    | 253   | 544   | 417   | 872   | e770  | 882   | 3710  | 389   | 304   | 720   | 333   | 186  |
| 16    | 242   | 486   | 465   | 825   | e760  | 775   | 4950  | 366   | 599   | 733   | 286   | 280  |
| 17    | 232   | 443   | 492   | 794   | e750  | 852   | 3930  | 349   | 478   | 656   | 258   | 365  |
| 18    | 221   | 412   | 3300  | 799   | e740  | 2880  | 2980  | 335   | 979   | 569   | 237   | 290  |
| 19    | 215   | 390   | 7810  | 870   | e2000 | 4800  | 2710  | 316   | 878   | 414   | 241   | 245  |
| 20    | 209   | 381   | 10100 | 848   | e4200 | 5040  | 2110  | 300   | 597   | 302   | 239   | 213  |
| 21    | 199   | 401   | 9180  | 809   | e3500 | 3790  | 1680  | 287   | 460   | 242   | 224   | 213  |
| 22    | 193   | 379   | 7800  | 769   | e2500 | 2800  | 1480  | 275   | 406   | 206   | 212   | 297  |
| 23    | 191   | 357   | 5890  | 735   | e1800 | 1870  | 1510  | 262   | 614   | 181   | 202   | 267  |
| 24    | 194   | 528   | 3660  | 869   | e1400 | 1430  | 1500  | 365   | 546   | 268   | 195   | 231  |
| 25    | 196   | 710   | 2160  | 1290  | e1100 | 1720  | 1480  | 379   | 388   | 261   | 244   | 210  |
| 26    | 190   | 638   | 1590  | 1350  | e950  | 3200  | 1250  | 455   | 299   | 410   | 431   | 194  |
| 27    | 186   | 575   | 1320  | 3800  | e900  | 2960  | 1050  | 343   | 255   | 355   | 253   | 192  |
| 28    | 197   | 540   | 1130  | 5030  | e1500 | 4050  | 854   | 283   | 227   | 325   | 244   | 265  |
| 29    | 215   | 510   | 998   | 4670  | e1900 | 4030  | 1000  | 609   | 205   | 303   | 251   | 373  |
| 30    | 224   | 474   | 914   | 4680  | ---   | 4380  | 2500  | 810   | 187   | 260   | 349   | 355  |
| 31    | 226   | ---   | 937   | 4860  | ---   | 5410  | ---   | 536   | ---   | 221   | 542   | ---  |
| TOTAL | 14891 | 21956 | 64616 | 64583 | 52480 | 68399 | 67744 | 17996 | 12350 | 10047 | 15976 | 8411 |
| MEAN  | 480   | 732   | 2084  | 2083  | 1810  | 2206  | 2258  | 581   | 412   | 324   | 515   | 280  |
| MAX   | 3370  | 2440  | 10100 | 5340  | 4500  | 5410  | 5040  | 2450  | 979   | 818   | 1490  | 504  |
| MIN   | 142   | 267   | 349   | 735   | 740   | 775   | 854   | 262   | 187   | 151   | 195   | 180  |
| CFSM  | .85   | 1.30  | 3.71  | 3.71  | 3.22  | 3.93  | 4.02  | 1.03  | .73   | .58   | .92   | .50  |
| IN.   | .99   | 1.45  | 4.28  | 4.27  | 3.47  | 4.53  | 4.48  | 1.19  | .82   | .67   | 1.06  | .56  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1996, BY WATER YEAR (WY)

|      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 474  | 909  | 1253 | 1812 | 2115 | 2064 | 1898 | 1439 | 759  | 629  | 589  | 723  |
| MAX  | 2182 | 2587 | 2597 | 3418 | 4280 | 4383 | 6686 | 6818 | 2572 | 1668 | 2675 | 2386 |
| (WY) | 1976 | 1980 | 1983 | 1990 | 1990 | 1979 | 1983 | 1991 | 1978 | 1994 | 1975 | 1974 |
| MIN  | 126  | 152  | 364  | 365  | 412  | 742  | 544  | 210  | 169  | 245  | 210  | 185  |
| (WY) | 1982 | 1982 | 1982 | 1981 | 1989 | 1982 | 1985 | 1988 | 1988 | 1986 | 1981 | 1990 |

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1974 - 1996

|                          |        |        |       |            |
|--------------------------|--------|--------|-------|------------|
| ANNUAL TOTAL             | 430077 | 419449 | 1217  | 1980       |
| ANNUAL MEAN              | 1178   | 1146   | 1922  | 1982       |
| HIGHEST ANNUAL MEAN      |        |        | 740   | 1982       |
| LOWEST ANNUAL MEAN       |        |        | 32600 | Apr 9 1983 |
| HIGHEST DAILY MEAN       | 10100  | Dec 20 | 106   | Jun 7 1985 |
| LOWEST DAILY MEAN        | 141    | Sep 12 | 110   | Oct 2 1981 |
| ANNUAL SEVEN-DAY MINIMUM | 155    | Sep 7  | 33700 | Apr 9 1983 |
| INSTANTANEOUS PEAK FLOW  |        |        | 22.39 | Apr 9 1983 |
| INSTANTANEOUS PEAK STAGE |        |        | 2.17  |            |
| ANNUAL RUNOFF (CFSM)     | 2.10   | 2.04   | 29.42 |            |
| ANNUAL RUNOFF (INCHES)   | 28.47  | 27.76  |       |            |
| 10 PERCENT EXCEEDS       | 2990   | 3000   | 2760  |            |
| 50 PERCENT EXCEEDS       | 575    | 582    | 650   |            |
| 90 PERCENT EXCEEDS       | 198    | 213    | 199   |            |

e Estimated

## 02481000 BILOXI RIVER AT WORTHAM, MS

LOCATION.--Lat 30°33'30", long 89°07'20", in SE1/4 SE1/4 sec.31, T.5 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: Mar. 27-28, Apr. 3, 8, 13, 29-30, May 3-21, May 29 - Jun. 1, Jun. 6-9, 11. 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) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Dec. 19 | 0100 | *4,390                            | *16.73              | Mar. 30 | 1545 | 4,340                             | 16.60               |
| Jan. 1  | 1815 | 3,360                             | 14.04               | Apr. 15 | 0815 | 4,130                             | 16.07               |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT   | NOV    | DEC  | JAN  | FEB  | MAR   | APR   | MAY  | JUN  | JUL   | AUG  | SEP   |
|-------|-------|--------|------|------|------|-------|-------|------|------|-------|------|-------|
| 1     | 4.5   | 6.7    | 20   | 1970 | 161  | 338   | 948   | 177  | e36  | 9.3   | 36   | 47    |
| 2     | 4.1   | 79     | 18   | 1720 | 610  | 234   | 401   | 114  | 24   | 7.9   | 96   | 37    |
| 3     | 6.9   | 444    | 17   | 762  | 833  | 144   | e270  | e94  | 23   | 7.1   | 154  | 29    |
| 4     | 57    | 210    | 16   | 331  | 451  | 106   | 219   | e83  | 21   | 6.5   | 218  | 26    |
| 5     | 131   | 100    | 16   | 224  | 241  | 92    | 193   | e73  | 16   | 5.8   | 124  | 23    |
| 6     | 61    | 60     | 20   | 183  | 193  | 92    | 465   | e64  | e15  | 6.1   | 95   | 19    |
| 7     | 35    | 52     | 28   | 179  | 167  | 186   | 538   | e55  | e14  | 5.9   | 71   | 16    |
| 8     | 21    | 174    | 37   | 143  | 144  | 236   | e270  | e47  | e60  | 5.1   | 70   | 13    |
| 9     | 15    | 86     | 32   | 119  | 127  | 146   | 182   | e42  | e50  | 5.0   | 107  | 12    |
| 10    | 12    | 56     | 25   | 108  | 117  | 105   | 139   | e37  | 32   | 5.5   | 108  | 11    |
| 11    | 9.7   | 133    | 23   | 105  | 107  | 90    | 117   | e35  | e20  | 4.9   | 74   | 9.6   |
| 12    | 8.6   | 114    | 22   | 105  | 94   | 80    | 107   | e31  | 14   | 4.7   | 64   | 8.8   |
| 13    | 7.7   | 67     | 21   | 108  | 82   | 74    | e170  | e29  | 15   | 27    | 75   | 8.1   |
| 14    | 7.1   | 52     | 19   | 90   | 78   | 70    | 271   | e27  | 26   | 99    | 55   | 7.5   |
| 15    | 6.7   | 41     | 19   | 79   | 74   | 66    | 3360  | e25  | 56   | 75    | 41   | 9.5   |
| 16    | 6.2   | 33     | 22   | 73   | 72   | 63    | 1850  | e23  | 135  | 75    | 35   | 22    |
| 17    | 5.9   | 28     | 141  | 69   | 68   | 101   | 710   | e22  | 189  | 51    | 28   | 25    |
| 18    | 5.6   | 24     | 3180 | 68   | 65   | 788   | 376   | e20  | 218  | 44    | 25   | 21    |
| 19    | 5.5   | 22     | 2930 | 81   | 65   | 605   | 373   | e18  | 243  | 31    | 20   | 15    |
| 20    | 5.1   | 22     | 1110 | 75   | 562  | 244   | 291   | e17  | 244  | 19    | 17   | 13    |
| 21    | 4.6   | 28     | 372  | 68   | 401  | 147   | 215   | e16  | 133  | 13    | 18   | 13    |
| 22    | 4.4   | 24     | 222  | 62   | 189  | 115   | 167   | 15   | 85   | 10    | 21   | 181   |
| 23    | 4.7   | 22     | 163  | 59   | 133  | 97    | 145   | 14   | 59   | 7.9   | 19   | 148   |
| 24    | 6.9   | 50     | 130  | 126  | 107  | 85    | 133   | 12   | 48   | 8.0   | 16   | 49    |
| 25    | 9.0   | 52     | 111  | 180  | 89   | 180   | 114   | 12   | 31   | 17    | 15   | 29    |
| 26    | 8.6   | 37     | 98   | 131  | 79   | 232   | 104   | 11   | 22   | 116   | 15   | 20    |
| 27    | 7.3   | 31     | 89   | 672  | 75   | e830  | 100   | 11   | 17   | 95    | 41   | 17    |
| 28    | 6.6   | 26     | 79   | 692  | 91   | e1030 | 99    | 10   | 15   | 63    | 125  | 21    |
| 29    | 5.8   | 24     | 72   | 304  | 269  | 557   | e220  | e130 | 13   | 58    | 61   | 69    |
| 30    | 6.1   | 22     | 67   | 251  | ---  | 3150  | e370  | e200 | 11   | 35    | 47   | 48    |
| 31    | 6.7   | ---    | 99   | 224  | ---  | 2110  | ---   | e60  | ---  | 22    | 46   | ---   |
| TOTAL | 486.3 | 2119.7 | 9218 | 9361 | 5744 | 12393 | 12917 | 1524 | 1885 | 939.7 | 1937 | 967.5 |
| MEAN  | 15.7  | 70.7   | 297  | 302  | 198  | 400   | 431   | 49.2 | 62.8 | 30.3  | 62.5 | 32.2  |
| MAX   | 131   | 444    | 3180 | 1970 | 833  | 3150  | 3360  | 200  | 244  | 116   | 218  | 181   |
| MIN   | 4.1   | 6.7    | 16   | 59   | 65   | 63    | 99    | 10   | 11   | 4.7   | 15   | 7.5   |
| CFSM  | .16   | .73    | 3.09 | 3.14 | 2.06 | 4.16  | 4.48  | .51  | .65  | .32   | .65  | .34   |
| IN.   | .19   | .82    | 3.56 | 3.62 | 2.22 | 4.79  | 4.99  | .59  | .73  | .36   | .75  | .37   |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 1996, BY WATER YEAR (WY)

|      | MEAN | 71.3 | 117  | 231  | 313  | 354  | 333  | 276  | 191  | 109  | 119  | 140  | 154 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| MAX  | 606  | 466  | 625  | 845  | 986  | 920  | 997  | 1129 | 587  | 592  | 715  | 680  |     |
| (WY) | 1986 | 1980 | 1962 | 1993 | 1983 | 1980 | 1980 | 1991 | 1959 | 1989 | 1987 | 1973 |     |
| MIN  | 1.95 | 4.37 | 24.1 | 15.9 | 60.2 | 34.1 | 24.0 | 7.92 | 5.00 | 12.9 | 7.05 | 5.35 |     |
| (WY) | 1964 | 1982 | 1959 | 1981 | 1989 | 1955 | 1963 | 1956 | 1985 | 1957 | 1954 | 1954 |     |

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1953 - 1996

|                          | ANNUAL TOTAL | 100206.4 | 59492.2 | 200   |             |
|--------------------------|--------------|----------|---------|-------|-------------|
| ANNUAL MEAN              | 275          | 163      |         |       |             |
| HIGHEST ANNUAL MEAN      |              |          |         | 364   | 1983        |
| LOWEST ANNUAL MEAN       |              |          |         | 67.4  | 1963        |
| HIGHEST DAILY MEAN       | 9860         | May 10   | 3360    | 9860  | May 10 1995 |
| LOWEST DAILY MEAN        | 4.1          | Oct 2    | 4.1     | 1.2   | Oct 21 1963 |
| ANNUAL SEVEN-DAY MINIMUM | 4.7          | Sep 26   | 5.1     | 1.3   | Oct 20 1963 |
| INSTANTANEOUS PEAK FLOW  |              |          | 4390    | 13500 | May 9 1995  |
| INSTANTANEOUS PEAK STAGE |              |          | 16.73   | 28.94 | May 9 1995  |
| INSTANTANEOUS LOW FLOW   |              |          | 4.0     | 1.1   | Oct 21 1963 |
| ANNUAL RUNOFF (CFSM)     | 2.85         |          | 1.69    | 2.08  |             |
| ANNUAL RUNOFF (INCHES)   | 38.75        |          | 23.01   | 28.24 |             |
| 10 PERCENT EXCEEDS       | 665          |          | 277     | 461   |             |
| 50 PERCENT EXCEEDS       | 61           |          | 61      | 68    |             |
| 90 PERCENT EXCEEDS       | 6.8          |          | 8.4     | 8.4   |             |

e Estimated

## 02481510 WOLF RIVER NEAR LONDON, MS

LOCATION.--Lat 30°29'00", long 89°16'28", in 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 11.2 mi northwest of London.

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: May 15-28, Jun. 6-7, 11-13, Jun. 17 - Jul. 24, Aug. 17-18, 20, 22-25, Sept. 4-15, 18-21, 26-27. Records good except for estimated discharges, which are poor.

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 (ft <sup>3</sup> /s) | Gage Height (ft) | Date    | Time | Discharge (ft <sup>3</sup> /s) | Gage Height (ft) |
|---------|------|--------------------------------|------------------|---------|------|--------------------------------|------------------|
| Dec. 18 | 2400 | 5,570                          | 15.92            | Mar. 30 | 1330 | 9,050                          | 19.98            |
| Jan. 1  | 2200 | 4,580                          | 14.66            | Apr. 15 | 0530 | *10,700                        | *21.64           |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG   | SEP  |
|-------|------|------|-------|-------|-------|-------|-------|------|------|------|-------|------|
| 1     | 49   | 64   | 107   | 2910  | 634   | 1160  | 2440  | 584  | 178  | e94  | 212   | 325  |
| 2     | 48   | 249  | 104   | 2780  | 1160  | 878   | 1390  | 387  | 257  | e92  | 928   | 185  |
| 3     | 68   | 1310 | 103   | 1300  | 1780  | 578   | 921   | 290  | 278  | e90  | 2520  | 147  |
| 4     | 227  | 1170 | 103   | 776   | 1150  | 417   | 720   | 241  | 197  | e88  | 1430  | e128 |
| 5     | 395  | 585  | 105   | 563   | 738   | 347   | 627   | 215  | 156  | e86  | 1150  | e119 |
| 6     | 255  | 308  | 140   | 475   | 584   | 333   | 1120  | 195  | e133 | e84  | 981   | e114 |
| 7     | 146  | 243  | 270   | 463   | 517   | 476   | 1980  | 176  | e130 | e82  | 759   | e109 |
| 8     | 103  | 378  | 197   | 410   | 467   | 864   | 1160  | 161  | 414  | e277 | 441   | e108 |
| 9     | 83   | 340  | 167   | 339   | 425   | 598   | 773   | 150  | 344  | e240 | 383   | e106 |
| 10    | 72   | 234  | 159   | 304   | 396   | 436   | 583   | 144  | 191  | e139 | 334   | e105 |
| 11    | 65   | 222  | 153   | 284   | 368   | 350   | 479   | 158  | e151 | e89  | 629   | e104 |
| 12    | 60   | 257  | 138   | 300   | 331   | 308   | 423   | 186  | e123 | e80  | 444   | e104 |
| 13    | 58   | 223  | 127   | 324   | 292   | 284   | 550   | 173  | e190 | e337 | 442   | e103 |
| 14    | 58   | 189  | 122   | 278   | 266   | 265   | 1260  | 151  | 478  | e492 | 311   | e102 |
| 15    | 56   | 161  | 121   | 247   | 255   | 253   | 8780  | e129 | 529  | e275 | 206   | e125 |
| 16    | 56   | 145  | 139   | 233   | 245   | 242   | 3880  | e122 | 670  | e185 | 152   | 177  |
| 17    | 55   | 133  | 214   | 225   | 229   | 257   | 1400  | e116 | e350 | e123 | e123  | 142  |
| 18    | 54   | 124  | 3880  | 225   | 215   | 1210  | 1070  | e113 | e138 | e102 | e117  | e120 |
| 19    | 53   | 119  | 4800  | 270   | 217   | 1650  | 1040  | e111 | e110 | e83  | 126   | e112 |
| 20    | 56   | 122  | 2490  | 334   | 1100  | 1280  | 838   | e110 | e200 | e75  | e132  | e109 |
| 21    | 50   | 137  | 1320  | 256   | 1080  | 763   | 669   | e109 | e370 | e67  | 160   | e150 |
| 22    | 48   | 149  | 795   | 228   | 681   | 488   | 550   | e107 | e234 | e60  | e125  | 936  |
| 23    | 50   | 136  | 553   | 216   | 465   | 385   | 499   | e106 | e182 | e55  | e102  | 647  |
| 24    | 60   | 184  | 443   | 371   | 368   | 334   | 488   | e105 | e139 | e52  | e98   | 221  |
| 25    | 54   | 173  | 367   | 749   | 307   | 362   | 450   | e105 | e117 | 114  | e190  | 138  |
| 26    | 53   | 155  | 318   | 534   | 272   | 580   | 390   | e104 | e108 | 291  | 697   | e123 |
| 27    | 52   | 141  | 286   | 2160  | 255   | 1410  | 342   | e103 | e103 | 398  | 539   | e115 |
| 28    | 53   | 130  | 260   | 2520  | 273   | 2120  | 307   | e102 | e100 | 335  | 283   | 157  |
| 29    | 51   | 120  | 237   | 1500  | 1360  | 1290  | 611   | 1230 | e98  | 213  | 205   | 226  |
| 30    | 55   | 112  | 219   | 1110  | ---   | 6280  | 766   | e96  | 693  | 302  | 179   | 166  |
| 31    | 57   | ---  | 348   | 859   | ---   | 4850  | ---   | 305  | ---  | 338  | 319   | ---  |
| TOTAL | 2600 | 8013 | 18785 | 23543 | 16430 | 31048 | 36506 | 6981 | 6764 | 5338 | 14717 | 5523 |
| MEAN  | 83.9 | 267  | 606   | 759   | 567   | 1002  | 1217  | 225  | 225  | 172  | 475   | 184  |
| MAX   | 395  | 1310 | 4800  | 2910  | 1780  | 6280  | 8780  | 1230 | 670  | 492  | 2520  | 936  |
| MIN   | 48   | 64   | 103   | 216   | 215   | 242   | 307   | 102  | 96   | 52   | 98    | 102  |
| CFSM  | .27  | .87  | 1.97  | 2.47  | 1.84  | 3.25  | 3.95  | .73  | .73  | .56  | 1.54  | .60  |
| IN.   | .31  | .97  | 2.27  | 2.84  | 1.98  | 3.75  | 4.41  | .84  | .82  | .64  | 1.78  | .67  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1996, 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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 233  | 398  | 696  | 1016 | 1135 | 1077 | 1039 | 731  | 330  | 419  | 418  | 446  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| MAX  | 1231 | 957  | 1511 | 2475 | 2489 | 2424 | 3008 | 2641 | 1082 | 1513 | 1778 | 1676 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| (WY) | 1986 | 1990 | 1984 | 1993 | 1990 | 1980 | 1980 | 1991 | 1989 | 1979 | 1975 | 1973 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| MIN  | 52.1 | 51.3 | 144  | 122  | 272  | 334  | 159  | 103  | 58.9 | 90.5 | 71.4 | 71.5 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| (WY) | 1982 | 1982 | 1982 | 1981 | 1989 | 1981 | 1976 | 1985 | 1985 | 1986 | 1986 | 1972 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

| SUMMARY STATISTICS       | FOR 1995 CALENDAR YEAR | FOR 1996 WATER YEAR | WATER YEARS 1971 - 1996 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 282252                 | 176248              |                         |
| ANNUAL MEAN              | 773                    | 482                 | 657                     |
| HIGHEST ANNUAL MEAN      |                        |                     | 943                     |
| LOWEST ANNUAL MEAN       |                        |                     | 312                     |
| HIGHEST DAILY MEAN       | 18700                  | May 10              | 18700                   |
| LOWEST DAILY MEAN        | 48                     | Oct 2               | 37                      |
| ANNUAL SEVEN-DAY MINIMUM | 52                     | Oct 17              | 40                      |
| INSTANTANEOUS PEAK FLOW  |                        |                     | 24500                   |
| INSTANTANEOUS PEAK STAGE |                        |                     | 28.85                   |
| ANNUAL RUNOFF (CFSM)     | 2.51                   | 1.56                | 2.13                    |
| ANNUAL RUNOFF (INCHES)   | 34.09                  | 21.29               | 29.00                   |
| 10 PERCENT EXCEEDS       | 1850                   | 1150                | 1520                    |
| 50 PERCENT EXCEEDS       | 284                    | 238                 | 289                     |
| 90 PERCENT EXCEEDS       | 71                     | 85                  | 84                      |

e Estimated

## 02481880 PEARL RIVER AT BURNSIDE, MS

LOCATION.--Lat 32°50'27", long 89°05'51", in NE1/4 sec.6, T.11 N., R.12 E., Choctaw Meridian, Neshoba County, Hydrologic Unit 031800001, 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.--No estimated daily discharges. Records good. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT    | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY    | JUN   | JUL   | AUG  | SEP  |
|-------|--------|-------|-------|-------|-------|-------|-------|--------|-------|-------|------|------|
| 1     | 6.8    | 33    | 590   | 347   | 3810  | 182   | 1490  | 516    | 17    | 8.2   | 25   | 53   |
| 2     | 4.7    | 42    | 645   | 353   | 3830  | 161   | 1470  | 428    | 14    | 6.5   | 20   | 48   |
| 3     | 67     | 65    | 625   | 386   | 4110  | 143   | 1410  | 357    | 14    | 5.4   | 53   | 32   |
| 4     | 180    | 108   | 614   | 424   | 3700  | 127   | 1250  | 288    | 24    | 4.3   | 33   | 31   |
| 5     | 331    | 124   | 782   | 433   | 2850  | 114   | 1040  | 217    | 22    | 3.2   | 28   | 53   |
| 6     | 393    | 109   | 979   | 535   | 1950  | 286   | 877   | 163    | 17    | 2.5   | 29   | 63   |
| 7     | 366    | 150   | 979   | 938   | 1520  | 902   | 748   | 128    | 13    | 2.4   | 75   | 70   |
| 8     | 325    | 267   | 867   | 1720  | 1270  | 2910  | 634   | 101    | 11    | 2.7   | 93   | 70   |
| 9     | 303    | 383   | 955   | 2120  | 1110  | 6160  | 531   | 84     | 9.8   | 6.7   | 81   | 75   |
| 10    | 298    | 498   | 975   | 1710  | 972   | 4240  | 450   | 64     | 8.4   | 9.7   | 49   | 77   |
| 11    | 272    | 651   | 1060  | 1440  | 856   | 2030  | 386   | 46     | 7.6   | 7.7   | 37   | 66   |
| 12    | 212    | 744   | 1180  | 1440  | 746   | 1290  | 330   | 37     | 7.3   | 3.7   | 53   | 53   |
| 13    | 142    | 784   | 1070  | 1390  | 660   | 983   | 348   | 39     | 7.1   | 2.7   | 81   | 46   |
| 14    | 94     | 1030  | 940   | 1450  | 574   | 789   | 423   | 38     | 8.0   | 4.3   | 99   | 42   |
| 15    | 68     | 1160  | 832   | 1290  | 500   | 656   | 670   | 28     | 15    | 7.4   | 69   | 40   |
| 16    | 53     | 1170  | 755   | 1110  | 431   | 543   | 753   | 21     | 12    | 19    | 55   | 35   |
| 17    | 43     | 1070  | 727   | 975   | 375   | 454   | 902   | 18     | 9.5   | 15    | 56   | 28   |
| 18    | 27     | 910   | 1250  | 866   | 328   | 390   | 1180  | 20     | 7.6   | 12    | 53   | 26   |
| 19    | 19     | 735   | 6020  | 793   | 297   | 471   | 1240  | 20     | 15    | 11    | 47   | 25   |
| 20    | 13     | 581   | 10200 | 735   | 310   | 518   | 1070  | 19     | 16    | 8.5   | 36   | 20   |
| 21    | 8.7    | 439   | 8290  | 737   | 322   | 606   | 1050  | 17     | 69    | 6.3   | 26   | 18   |
| 22    | 6.7    | 328   | 5660  | 712   | 343   | 662   | 1040  | 13     | 44    | 4.2   | 21   | 19   |
| 23    | 5.9    | 251   | 3220  | 642   | 338   | 631   | 1350  | 9.9    | 26    | 4.3   | 18   | 22   |
| 24    | 6.5    | 241   | 1880  | 717   | 320   | 578   | 1380  | 8.8    | 18    | 4.4   | 15   | 38   |
| 25    | 6.3    | 253   | 1340  | 803   | 298   | 743   | 1460  | 7.8    | 14    | 42    | 12   | 32   |
| 26    | 6.0    | 281   | 1050  | 1790  | 274   | 1220  | 1350  | 8.2    | 16    | 19    | 12   | 32   |
| 27    | 8.4    | 273   | 857   | 10200 | 247   | 2150  | 1130  | 7.9    | 39    | 42    | 27   | 28   |
| 28    | 25     | 267   | 704   | 16900 | 225   | 2600  | 919   | 7.9    | 12    | 67    | 18   | 24   |
| 29    | 14     | 423   | 574   | 12300 | 206   | 2270  | 755   | 17     | 12    | 80    | 22   | 27   |
| 30    | 21     | 506   | 471   | 6680  | ---   | 1870  | 633   | 22     | 10    | 53    | 27   | 35   |
| 31    | 34     | ---   | 394   | 4610  | ---   | 1650  | ---   | 22     | ---   | 33    | 36   | ---  |
| TOTAL | 3360.0 | 13876 | 56485 | 76546 | 32772 | 38329 | 28269 | 2773.5 | 515.3 | 498.1 | 1306 | 1228 |
| MEAN  | 108    | 463   | 1822  | 2469  | 1130  | 1236  | 942   | 89.5   | 17.2  | 16.1  | 42.1 | 40.9 |
| MAX   | 393    | 1170  | 10200 | 16900 | 4110  | 6160  | 1490  | 516    | 69    | 80    | 99   | 77   |
| MIN   | 4.7    | 33    | 394   | 347   | 206   | 114   | 330   | 7.8    | 7.1   | 2.4   | 12   | 18   |
| CFSM  | .21    | .89   | 3.50  | 4.75  | 2.17  | 2.38  | 1.81  | .17    | .03   | .03   | .08  | .08  |
| IN.   | .24    | .99   | 4.04  | 5.48  | 2.34  | 2.74  | 2.02  | .20    | .04   | .04   | .09  | .09  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 1996, BY WATER YEAR (WY)

|      | MEAN | 82.1 | 448  | 963  | 1210 | 1609 | 1271 | 1234 | 769  | 239  | 121  | 84.4 | 25.0 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MAX  | 295  | 1071 | 3408 | 3099 | 3661 | 3149 | 3686 | 4021 | 927  | 906  | 342  | 123  |      |
| (WY) | 1995 | 1990 | 1983 | 1990 | 1983 | 1983 | 1983 | 1983 | 1983 | 1989 | 1982 | 1991 |      |
| MIN  | .94  | 3.65 | 7.83 | 104  | 154  | 391  | 70.4 | 16.7 | 2.15 | 5.17 | 3.03 | 1.92 |      |
| (WY) | 1988 | 1988 | 1988 | 1986 | 1986 | 1988 | 1986 | 1988 | 1988 | 1981 | 1987 | 1987 |      |

## SUMMARY STATISTICS

## FOR 1995 CALENDAR YEAR

## FOR 1996 WATER YEAR

## WATER YEARS 1981 - 1996

|                          |          |          |       |
|--------------------------|----------|----------|-------|
| ANNUAL TOTAL             | 272342.2 | 255957.9 | 685   |
| ANNUAL MEAN              | 746      | 699      | 1732  |
| HIGHEST ANNUAL MEAN      |          |          | 141   |
| LOWEST ANNUAL MEAN       |          |          | 1988  |
| HIGHEST DAILY MEAN       | 10200    | Dec 20   | 34600 |
| LOWEST DAILY MEAN        | 3.4      | Sep 10   | .37   |
| ANNUAL SEVEN-DAY MINIMUM | 3.7      | Sep 9    | .50   |
| INSTANTANEOUS PEAK FLOW  |          |          | 37800 |
| INSTANTANEOUS PEAK STAGE |          |          | 19.77 |
| ANNUAL RUNOFF (CFSM)     | 1.43     |          | 1.32  |
| ANNUAL RUNOFF (INCHES)   | 19.48    |          | 17.90 |
| 10 PERCENT EXCEEDS       | 1460     | 1440     | 1590  |
| 50 PERCENT EXCEEDS       | 279      | 194      | 164   |
| 90 PERCENT EXCEEDS       | 5.9      | 8.5      | 4.5   |



## PEARL RIVER BASIN

02481880 PEARL RIVER AT BURNSIDE, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY  | OCT  | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1    | 4.45 | 5.29  | 10.54 | 9.00  | 13.76 | 7.82  | 12.55 | 9.91 | 4.81 | 4.50 | 4.97 | 5.46 |
| 2    | 4.35 | 5.48  | 10.79 | 9.05  | 13.77 | 7.61  | 12.52 | 9.35 | 4.72 | 4.43 | 4.84 | 5.35 |
| 3    | 5.63 | 5.89  | 10.71 | 9.29  | 13.86 | 7.41  | 12.44 | 8.81 | 4.73 | 4.37 | 5.50 | 5.05 |
| 4    | 7.23 | 6.52  | 10.67 | 9.57  | 13.73 | 7.24  | 12.17 | 8.26 | 4.99 | 4.32 | 5.13 | 5.01 |
| 5    | 8.58 | 6.73  | 11.32 | 9.63  | 13.44 | 7.08  | 11.78 | 7.63 | 4.95 | 4.25 | 5.01 | 5.43 |
| 6    | 9.06 | 6.54  | 11.88 | 10.20 | 13.03 | 8.70  | 11.38 | 7.08 | 4.80 | 4.21 | 5.04 | 5.61 |
| 7    | 8.85 | 7.02  | 11.88 | 11.74 | 12.73 | 11.82 | 10.98 | 6.69 | 4.67 | 4.21 | 5.87 | 5.72 |
| 8    | 8.55 | 8.19  | 11.60 | 12.76 | 12.46 | 13.43 | 10.53 | 6.34 | 4.60 | 4.22 | 6.14 | 5.72 |
| 9    | 8.37 | 9.11  | 11.82 | 13.09 | 12.23 | 14.49 | 10.02 | 6.12 | 4.57 | 4.43 | 5.97 | 5.80 |
| 10   | 8.33 | 9.91  | 11.87 | 12.81 | 11.99 | 13.91 | 9.52  | 5.80 | 4.52 | 4.55 | 5.44 | 5.83 |
| 11   | 8.11 | 10.67 | 12.03 | 12.59 | 11.70 | 13.14 | 9.06  | 5.49 | 4.49 | 4.47 | 5.20 | 5.65 |
| 12   | 7.56 | 11.07 | 12.25 | 12.58 | 11.36 | 12.60 | 8.64  | 5.32 | 4.48 | 4.28 | 5.51 | 5.43 |
| 13   | 6.84 | 11.20 | 12.07 | 12.53 | 11.02 | 12.13 | 8.77  | 5.36 | 4.47 | 4.22 | 5.95 | 5.29 |
| 14   | 6.24 | 11.84 | 11.78 | 12.59 | 10.65 | 11.62 | 9.33  | 5.33 | 4.50 | 4.30 | 6.22 | 5.22 |
| 15   | 5.86 | 12.10 | 11.49 | 12.40 | 10.25 | 11.10 | 10.65 | 5.11 | 4.76 | 4.44 | 5.76 | 5.18 |
| 16   | 5.62 | 12.13 | 11.24 | 12.11 | 9.81  | 10.55 | 11.00 | 4.95 | 4.64 | 4.83 | 5.54 | 5.06 |
| 17   | 5.43 | 11.96 | 11.14 | 11.84 | 9.41  | 9.99  | 11.42 | 4.87 | 4.55 | 4.72 | 5.56 | 4.91 |
| 18   | 5.10 | 11.60 | 12.18 | 11.57 | 9.05  | 9.52  | 12.02 | 4.91 | 4.48 | 4.61 | 5.49 | 4.87 |
| 19   | 4.88 | 11.06 | 14.40 | 11.36 | 8.80  | 10.05 | 12.13 | 4.90 | 4.73 | 4.58 | 5.38 | 4.83 |
| 20   | 4.71 | 10.42 | 15.53 | 11.17 | 8.92  | 10.32 | 11.81 | 4.88 | 4.76 | 4.48 | 5.16 | 4.70 |
| 21   | 4.56 | 9.59  | 15.07 | 11.18 | 9.02  | 10.75 | 11.78 | 4.82 | 5.84 | 4.39 | 4.95 | 4.65 |
| 22   | 4.49 | 8.78  | 14.34 | 11.09 | 9.20  | 10.97 | 11.76 | 4.68 | 5.41 | 4.29 | 4.81 | 4.67 |
| 23   | 4.45 | 8.14  | 13.54 | 10.81 | 9.16  | 10.81 | 12.29 | 4.59 | 5.03 | 4.29 | 4.72 | 4.74 |
| 24   | 4.48 | 8.06  | 12.93 | 11.11 | 9.03  | 10.55 | 12.36 | 4.54 | 4.83 | 4.29 | 4.62 | 5.12 |
| 25   | 4.48 | 8.17  | 12.47 | 11.43 | 8.85  | 11.15 | 12.44 | 4.51 | 4.71 | 5.25 | 4.52 | 4.98 |
| 26   | 4.47 | 8.42  | 12.02 | 12.47 | 8.65  | 12.28 | 12.29 | 4.52 | 4.75 | 4.81 | 4.53 | 4.97 |
| 27   | 4.57 | 8.36  | 11.55 | 15.49 | 8.43  | 13.09 | 11.91 | 4.51 | 5.27 | 5.33 | 4.93 | 4.89 |
| 28   | 5.07 | 8.31  | 11.03 | 16.87 | 8.23  | 13.30 | 11.46 | 4.51 | 4.66 | 5.77 | 4.71 | 4.82 |
| 29   | 4.78 | 9.54  | 10.47 | 15.97 | 8.06  | 13.15 | 10.97 | 4.82 | 4.65 | 5.97 | 4.80 | 4.87 |
| 30   | 4.98 | 10.08 | 9.88  | 14.63 | ---   | 12.89 | 10.49 | 4.95 | 4.59 | 5.54 | 4.93 | 5.05 |
| 31   | 5.30 | ---   | 9.35  | 14.01 | ---   | 12.71 | ---   | 4.94 | ---  | 5.14 | 5.14 | ---  |
| MEAN | 5.98 | 9.07  | 11.93 | 12.03 | 10.71 | 11.04 | 11.22 | 5.76 | 4.77 | 4.63 | 5.24 | 5.16 |
| MAX  | 9.06 | 12.13 | 15.53 | 16.87 | 13.86 | 14.49 | 12.55 | 9.91 | 5.84 | 5.97 | 6.22 | 5.83 |
| MIN  | 4.35 | 5.29  | 9.35  | 9.00  | 8.06  | 7.08  | 8.64  | 4.51 | 4.47 | 4.21 | 4.52 | 4.65 |

## 02482000 PEARL RIVER AT EDINBURG, MS

LOCATION.--Lat 32°47'55", long 89°20'10", 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.--No estimated daily discharges. Records good. 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<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Dec. 22 | 1030 | 8,880                             | 22.77               | Mar. 11 | 1415 | 5,400                             | 20.00               |
| Jan. 29 | 1230 | *18,600                           | *25.43              |         |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT  | NOV   | DEC   | JAN    | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|-------|-------|--------|-------|-------|-------|------|------|------|------|------|
| 1     | 31   | 71    | 889   | 936    | 9470  | 544   | 3300  | 1230 | 98   | 42   | 87   | 110  |
| 2     | 26   | 90    | 888   | 962    | 7940  | 507   | 2890  | 1040 | 88   | 35   | 60   | 95   |
| 3     | 721  | 155   | 893   | 928    | 7050  | 465   | 2460  | 848  | 85   | 30   | 50   | 95   |
| 4     | 586  | 201   | 1250  | 941    | 6670  | 432   | 2150  | 683  | 73   | 26   | 55   | 91   |
| 5     | 607  | 208   | 1040  | 917    | 5970  | 402   | 1950  | 554  | 63   | 24   | 101  | 81   |
| 6     | 606  | 217   | 1040  | 1410   | 5330  | 876   | 1810  | 445  | 62   | 22   | 112  | 72   |
| 7     | 573  | 345   | 1090  | 1820   | 4730  | 2510  | 1660  | 361  | 58   | 20   | 111  | 78   |
| 8     | 505  | 481   | 1130  | 1850   | 4040  | 3270  | 1480  | 300  | 63   | 19   | 132  | 84   |
| 9     | 431  | 539   | 1650  | 1950   | 3320  | 4210  | 1290  | 249  | 60   | 18   | 151  | 94   |
| 10    | 366  | 581   | 1640  | 2030   | 2640  | 4730  | 1120  | 212  | 53   | 21   | 141  | 103  |
| 11    | 327  | 1310  | 1730  | 2420   | 2200  | 5300  | 955   | 185  | 47   | 20   | 106  | 103  |
| 12    | 300  | 1210  | 1690  | 2780   | 1890  | 5070  | 810   | 164  | 45   | 20   | 82   | 96   |
| 13    | 268  | 1440  | 1560  | 2620   | 1650  | 4320  | 994   | 140  | 40   | 20   | 102  | 86   |
| 14    | 253  | 1540  | 1490  | 2480   | 1470  | 3360  | 1020  | 124  | 41   | 19   | 106  | 73   |
| 15    | 227  | 1380  | 1450  | 2280   | 1320  | 2420  | 1460  | 114  | 45   | 25   | 109  | 66   |
| 16    | 167  | 1260  | 1490  | 2120   | 1170  | 1820  | 1510  | 104  | 54   | 36   | 102  | 105  |
| 17    | 128  | 1220  | 1480  | 1980   | 1040  | 1450  | 1700  | 92   | 52   | 102  | 81   | 92   |
| 18    | 105  | 1220  | 2980  | 1890   | 933   | 1230  | 1560  | 81   | 47   | 56   | 70   | 71   |
| 19    | 88   | 1220  | 4710  | 1890   | 860   | 1350  | 1410  | 73   | 136  | 42   | 69   | 59   |
| 20    | 71   | 1170  | 5280  | 1660   | 905   | 1230  | 1430  | 69   | 58   | 34   | 69   | 52   |
| 21    | 58   | 1060  | 7390  | 1490   | 870   | 1230  | 1670  | 65   | 56   | 27   | 62   | 49   |
| 22    | 49   | 887   | 8750  | 1370   | 853   | 1180  | 1720  | 63   | 57   | 23   | 51   | 47   |
| 23    | 43   | 696   | 7900  | 1280   | 825   | 1130  | 1990  | 64   | 73   | 22   | 43   | 43   |
| 24    | 38   | 643   | 6530  | 1820   | 791   | 1120  | 1910  | 59   | 62   | 22   | 38   | 38   |
| 25    | 34   | 545   | 5290  | 1770   | 746   | 1970  | 1930  | 53   | 51   | 55   | 35   | 38   |
| 26    | 32   | 496   | 4200  | 3340   | 706   | 2180  | 1930  | 46   | 47   | 67   | 52   | 43   |
| 27    | 36   | 471   | 3080  | 6760   | 667   | 2690  | 1840  | 43   | 55   | 84   | 52   | 45   |
| 28    | 81   | 580   | 2160  | 11900  | 630   | 2780  | 1750  | 75   | 108  | 109  | 136  | 61   |
| 29    | 107  | 981   | 1620  | 18100  | 586   | 2920  | 1610  | 210  | 85   | 129  | 167  | 77   |
| 30    | 92   | 892   | 1310  | 16800  | ---   | 3290  | 1430  | 141  | 55   | 119  | 141  | 63   |
| 31    | 71   | ---   | 1100  | 13000  | ---   | 3520  | ---   | 124  | ---  | 118  | 131  | ---  |
| TOTAL | 7027 | 23109 | 84700 | 113494 | 77272 | 69506 | 50739 | 8011 | 1917 | 1406 | 2804 | 2210 |
| MEAN  | 227  | 770   | 2732  | 3661   | 2665  | 2242  | 1691  | 258  | 63.9 | 45.4 | 90.5 | 73.7 |
| MAX   | 721  | 1540  | 8750  | 18100  | 9470  | 5300  | 3300  | 1230 | 136  | 129  | 167  | 110  |
| MIN   | 26   | 71    | 888   | 917    | 586   | 402   | 810   | 43   | 40   | 18   | 35   | 38   |
| CFSM  | .25  | .85   | 3.02  | 4.05   | 2.95  | 2.48  | 1.87  | .29  | .07  | .05  | .10  | .08  |
| IN.   | .29  | .95   | 3.49  | 4.67   | 3.18  | 2.86  | 2.09  | .33  | .08  | .06  | .12  | .09  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1996, BY WATER YEAR (WY)

|      | 186  | 459  | 1304 | 2122 | 2611 | 2674 | 2412  | 1227 | 358  | 399  | 229  | 153  |
|------|------|------|------|------|------|------|-------|------|------|------|------|------|
| MEAN | 186  | 459  | 1304 | 2122 | 2611 | 2674 | 2412  | 1227 | 358  | 399  | 229  | 153  |
| 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  | 465  | 528  | 156   | 50.1 | 8.62 | 24.2 | 16.0 | 6.01 |
| (WY) | 1988 | 1954 | 1963 | 1956 | 1934 | 1954 | 1963  | 1965 | 1988 | 1960 | 1954 | 1954 |

## SUMMARY STATISTICS

## FOR 1995 CALENDAR YEAR

## FOR 1996 WATER YEAR

## WATER YEARS 1928 - 1996

|                          | 1995   | 1996   | 1928-1996 |
|--------------------------|--------|--------|-----------|
| ANNUAL TOTAL             | 447406 | 442195 | 1171      |
| ANNUAL MEAN              | 1226   | 1208   | 3368      |
| HIGHEST ANNUAL MEAN      |        |        | 236       |
| LOWEST ANNUAL MEAN       |        |        | 1963      |
| HIGHEST DAILY MEAN       | 11500  | 18100  | 73500     |
| LOWEST DAILY MEAN        | 14     | 18     | 2.2       |
| ANNUAL SEVEN-DAY MINIMUM | 15     | 20     | 2.3       |
| INSTANTANEOUS PEAK FLOW  |        | 18600  | 77900     |
| INSTANTANEOUS PEAK STAGE |        | 25.43  | 30.06     |
| INSTANTANEOUS LOW FLOW   |        | 17     | 1.7       |
| ANNUAL RUNOFF (CFSM)     | 1.36   | 1.34   | 1.30      |
| ANNUAL RUNOFF (INCHES)   | 18.41  | 18.20  | 17.60     |
| 10 PERCENT EXCEEDS       | 3020   | 2900   | 3050      |
| 50 PERCENT EXCEEDS       | 622    | 468    | 340       |
| 90 PERCENT EXCEEDS       | 31     | 43     | 26        |

## PEARL RIVER BASIN

02482000 PEARL RIVER AT EDINBURG, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY  | OCT  | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN  | JUL  | AUG  | SEP  |
|------|------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| 1    | 2.42 | 3.11  | 8.45  | 8.68  | 23.03 | 6.71  | 16.50 | 10.02 | 3.59 | 2.62 | 3.40 | 3.51 |
| 2    | 2.30 | 3.37  | 8.44  | 8.80  | 22.29 | 6.51  | 15.65 | 9.19  | 3.46 | 2.47 | 3.00 | 3.31 |
| 3    | 7.14 | 4.09  | 8.47  | 8.64  | 21.69 | 6.28  | 14.55 | 8.26  | 3.42 | 2.35 | 2.83 | 3.31 |
| 4    | 6.95 | 4.52  | 10.09 | 8.70  | 21.34 | 6.08  | 13.53 | 7.45  | 3.23 | 2.25 | 2.93 | 3.25 |
| 5    | 7.07 | 4.57  | 9.19  | 8.58  | 20.66 | 5.90  | 12.84 | 6.79  | 3.07 | 2.17 | 3.59 | 3.10 |
| 6    | 7.06 | 4.65  | 9.16  | 10.65 | 19.89 | 8.35  | 12.33 | 6.20  | 3.06 | 2.10 | 3.72 | 2.96 |
| 7    | 6.88 | 5.51  | 9.40  | 12.35 | 19.01 | 14.54 | 11.78 | 5.69  | 2.99 | 2.06 | 3.71 | 3.03 |
| 8    | 6.53 | 6.37  | 9.59  | 12.47 | 17.89 | 16.43 | 11.06 | 5.31  | 3.07 | 2.01 | 3.96 | 3.10 |
| 9    | 6.11 | 6.69  | 11.74 | 12.82 | 16.53 | 18.17 | 10.30 | 4.97  | 3.02 | 1.98 | 4.17 | 3.23 |
| 10   | 5.71 | 6.91  | 11.68 | 13.12 | 15.03 | 19.00 | 9.52  | 4.69  | 2.89 | 2.06 | 4.07 | 3.32 |
| 11   | 5.45 | 10.34 | 12.03 | 14.41 | 13.69 | 19.86 | 8.77  | 4.47  | 2.78 | 2.05 | 3.67 | 3.31 |
| 12   | 5.29 | 9.95  | 11.87 | 15.41 | 12.62 | 19.53 | 8.08  | 4.28  | 2.74 | 2.04 | 3.37 | 3.22 |
| 13   | 5.07 | 10.90 | 11.37 | 15.04 | 11.75 | 18.35 | 8.95  | 4.05  | 2.64 | 2.05 | 3.64 | 3.07 |
| 14   | 4.95 | 11.31 | 11.12 | 14.63 | 11.03 | 16.61 | 9.06  | 3.89  | 2.65 | 2.01 | 3.68 | 2.88 |
| 15   | 4.75 | 10.66 | 10.96 | 13.99 | 10.40 | 14.39 | 10.99 | 3.79  | 2.73 | 2.19 | 3.70 | 2.76 |
| 16   | 4.25 | 10.17 | 11.11 | 13.42 | 9.76  | 12.37 | 11.17 | 3.67  | 2.89 | 2.47 | 3.61 | 3.24 |
| 17   | 3.85 | 10.00 | 11.07 | 12.93 | 9.18  | 10.96 | 11.94 | 3.51  | 2.87 | 3.53 | 3.32 | 3.10 |
| 18   | 3.58 | 10.00 | 15.58 | 12.64 | 8.66  | 10.05 | 11.40 | 3.37  | 2.75 | 2.88 | 3.14 | 2.80 |
| 19   | 3.36 | 9.97  | 18.98 | 12.64 | 8.32  | 10.55 | 10.77 | 3.26  | 3.90 | 2.63 | 3.11 | 2.60 |
| 20   | 3.12 | 9.75  | 19.80 | 11.77 | 8.53  | 10.02 | 10.87 | 3.20  | 2.96 | 2.44 | 3.11 | 2.46 |
| 21   | 2.91 | 9.28  | 21.87 | 11.13 | 8.36  | 10.04 | 11.83 | 3.15  | 2.91 | 2.29 | 2.97 | 2.40 |
| 22   | 2.75 | 8.44  | 22.71 | 10.61 | 8.28  | 9.80  | 12.01 | 3.12  | 2.93 | 2.17 | 2.78 | 2.37 |
| 23   | 2.62 | 7.51  | 22.26 | 10.23 | 8.15  | 9.61  | 12.98 | 3.13  | 3.19 | 2.13 | 2.62 | 2.29 |
| 24   | 2.50 | 7.23  | 21.21 | 12.35 | 7.99  | 9.53  | 12.69 | 3.05  | 3.01 | 2.15 | 2.48 | 2.20 |
| 25   | 2.42 | 6.71  | 19.82 | 12.18 | 7.77  | 12.79 | 12.78 | 2.93  | 2.81 | 2.87 | 2.40 | 2.19 |
| 26   | 2.38 | 6.45  | 18.15 | 15.95 | 7.56  | 13.65 | 12.77 | 2.82  | 2.73 | 3.08 | 2.74 | 2.31 |
| 27   | 2.47 | 6.31  | 16.02 | 21.43 | 7.36  | 15.18 | 12.45 | 2.75  | 2.88 | 3.34 | 2.74 | 2.36 |
| 28   | 3.24 | 6.87  | 13.55 | 23.77 | 7.16  | 15.40 | 12.10 | 3.16  | 3.63 | 3.67 | 3.78 | 2.64 |
| 29   | 3.59 | 8.89  | 11.62 | 25.32 | 6.93  | 15.70 | 11.59 | 4.66  | 3.34 | 3.90 | 4.15 | 2.90 |
| 30   | 3.41 | 8.46  | 10.38 | 25.06 | ---   | 16.49 | 10.87 | 4.09  | 2.86 | 3.79 | 3.88 | 2.69 |
| 31   | 3.11 | ---   | 9.45  | 24.18 | ---   | 16.94 | ---   | 3.89  | ---  | 3.79 | 3.77 | ---  |
| MEAN | 4.30 | 7.63  | 13.46 | 14.00 | 12.79 | 12.77 | 11.74 | 4.61  | 3.03 | 2.57 | 3.36 | 2.86 |
| MAX  | 7.14 | 11.31 | 22.71 | 25.32 | 23.03 | 19.86 | 16.50 | 10.02 | 3.90 | 3.90 | 4.17 | 3.51 |
| MIN  | 2.30 | 3.11  | 8.44  | 8.58  | 6.93  | 5.90  | 8.08  | 2.75  | 2.64 | 1.98 | 2.40 | 2.19 |

## 02482550 PEARL RIVER NEAR CARTHAGE, MS

LOCATION.--Lat 32°42'25", 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 right 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 Tuscolameta Creek, and at mile 366.3.

DRAINAGE AREA.--1,346 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1962 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 315.24 ft above sea level.

REMARKS.--Estimated daily discharges: Dec. 19-24, Jan. 27 - Feb. 13, Mar. 7 - Apr. 30, June 18-19, and June 25 - July 3. Records good except estimated daily discharges, which are poor. Telemeter and National Weather Service satellite telemeter at station.

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 ft<sup>3</sup>/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT  | NOV   | DEC    | JAN    | FEB    | MAR   | APR   | MAY   | JUN  | JUL  | AUG  | SEP  |
|-------|------|-------|--------|--------|--------|-------|-------|-------|------|------|------|------|
| 1     | 61   | 146   | 975    | 1480   | e18500 | 806   | e5000 | 1680  | 317  | e131 | 303  | 330  |
| 2     | 55   | 145   | 938    | 1460   | e16100 | 764   | e5200 | 1450  | 272  | e126 | 246  | 288  |
| 3     | 538  | 208   | 905    | 1520   | e13600 | 717   | e5000 | 1240  | 259  | e119 | 212  | 273  |
| 4     | 811  | 267   | 1630   | 1470   | e11900 | 674   | e3820 | 1030  | 293  | 115  | 190  | 258  |
| 5     | 543  | 284   | 1610   | 1410   | e10200 | 640   | e2900 | 880   | 280  | 112  | 205  | 249  |
| 6     | 517  | 283   | 1230   | 1880   | e9080  | 1020  | e2540 | 756   | 236  | 108  | 265  | 231  |
| 7     | 478  | 342   | 1160   | 3050   | e7400  | e1800 | e2410 | 647   | 214  | 103  | 294  | 216  |
| 8     | 438  | 514   | 1150   | 3100   | e5920  | e3180 | e2200 | 564   | 213  | 99   | 279  | 213  |
| 9     | 393  | 567   | 1660   | 2980   | e5040  | e5360 | e2070 | 500   | 415  | 94   | 344  | 243  |
| 10    | 350  | 576   | 2020   | 2860   | e4460  | e5830 | e1720 | 434   | 437  | 91   | 330  | 249  |
| 11    | 313  | 1340  | 1930   | 2970   | e3800  | e5420 | e1290 | 384   | 291  | 87   | 281  | 254  |
| 12    | 291  | 1500  | 1880   | 3600   | e3300  | e4800 | e1100 | 372   | 227  | 84   | 255  | 236  |
| 13    | 275  | 1340  | 1740   | 3820   | e2710  | e4220 | e1300 | 381   | 197  | 84   | 250  | 214  |
| 14    | 279  | 1480  | 1580   | 3790   | 2280   | e3630 | e2220 | 380   | 187  | 84   | 242  | 199  |
| 15    | 277  | 1470  | 1510   | 3670   | 2010   | e3170 | e3850 | 387   | 177  | 84   | 236  | 196  |
| 16    | 246  | 1310  | 1540   | 3510   | 1770   | e2670 | e4620 | 374   | 177  | 86   | 232  | 229  |
| 17    | 208  | 1210  | 1720   | 3290   | 1580   | e2280 | e4810 | 353   | 174  | 100  | 220  | 264  |
| 18    | 180  | 1160  | 3650   | 3190   | 1420   | e1790 | e4050 | 325   | e194 | 127  | 205  | 224  |
| 19    | 163  | 1150  | e5650  | 3320   | 1290   | e1840 | e2800 | 295   | e236 | 98   | 203  | 203  |
| 20    | 149  | 1120  | e8820  | 2930   | 1320   | e2100 | e2330 | 270   | 253  | 92   | 203  | 200  |
| 21    | 134  | 1050  | e10100 | 2450   | 1350   | e2250 | e2060 | 250   | 186  | 94   | 203  | 200  |
| 22    | 124  | 927   | e10200 | 2130   | 1310   | e1940 | e2080 | 232   | 163  | 96   | 203  | 199  |
| 23    | 117  | 792   | e9800  | 1850   | 1270   | e1710 | e2610 | 226   | 159  | 98   | 203  | 198  |
| 24    | 113  | 699   | e9050  | 2580   | 1220   | e1580 | e3620 | 210   | 166  | 99   | 203  | 197  |
| 25    | 108  | 640   | 8140   | 2960   | 1140   | e1960 | e3710 | 191   | e162 | 111  | 205  | 157  |
| 26    | 104  | 578   | 6850   | 4580   | 1070   | e3500 | e3460 | 174   | e158 | 127  | 299  | 195  |
| 27    | 113  | 540   | 5400   | e8600  | 1010   | e5500 | e3000 | 154   | e153 | 145  | 260  | 195  |
| 28    | 141  | 601   | 4040   | e13000 | 935    | e5960 | e2620 | 172   | e147 | 198  | 272  | 194  |
| 29    | 162  | 1080  | 2830   | e16400 | 863    | e5890 | e2230 | 512   | e141 | 262  | 450  | 193  |
| 30    | 175  | 1060  | 2080   | e19600 | ---    | e5300 | e1900 | 456   | e137 | 270  | 417  | 191  |
| 31    | 162  | ---   | 1720   | e22300 | ---    | e4860 | ---   | 386   | ---  | 259  | 384  | ---  |
| TOTAL | 8018 | 24379 | 113508 | 151750 | 133848 | 93161 | 88520 | 15665 | 6621 | 3783 | 8094 | 6728 |
| MEAN  | 259  | 813   | 3662   | 4895   | 4615   | 3005  | 2951  | 505   | 221  | 122  | 261  | 224  |
| MAX   | 811  | 1500  | 10200  | 22300  | 18500  | 5960  | 5200  | 1680  | 437  | 270  | 450  | 330  |
| MIN   | 55   | 145   | 905    | 1410   | 863    | 640   | 1100  | 154   | 137  | 84   | 190  | 191  |
| CFSM  | .19  | .60   | 2.72   | 3.64   | 3.43   | 2.23  | 2.19  | .38   | .16  | .09  | .19  | .17  |
| IN.   | .22  | .67   | 3.14   | 4.19   | 3.70   | 2.57  | 2.45  | .43   | .18  | .10  | .22  | .19  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1996, BY WATER YEAR (WY)

|      | MEAN | 413  | 795   | 2287  | 3661  | 3865  | 4317  | 4320  | 2278 | 697  | 542  | 430  | 332 |
|------|------|------|-------|-------|-------|-------|-------|-------|------|------|------|------|-----|
| 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   | 405   | 859   | 1160  | 329   | 151   | 57.0 | 122  | 82.5 | 60.9 |     |
| (WY) | 1964 | 1964 | 1988  | 1986  | 1986  | 1967  | 1963  | 1963  | 1988 | 1996 | 1981 | 1987 |     |

## SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1963 - 1996

|                          | ANNUAL TOTAL | 617234 | 654075 | 1986   |        |
|--------------------------|--------------|--------|--------|--------|--------|
| ANNUAL MEAN              | 1691         | 1787   |        |        |        |
| HIGHEST ANNUAL MEAN      |              |        |        | 5247   | 1983   |
| LOWEST ANNUAL MEAN       |              |        |        | 422    | 1963   |
| HIGHEST DAILY MEAN       | 15800        | Apr 27 | 22300  | Jan 31 | 93800  |
| LOWEST DAILY MEAN        | 55           | Oct 2  | 55     | Oct 2  | 32     |
| ANNUAL SEVEN-DAY MINIMUM | 63           | Sep 15 | 86     | Jul 10 | 33     |
| INSTANTANEOUS PEAK FLOW  |              |        | 22500  | Jan 31 | 102000 |
| INSTANTANEOUS PEAK STAGE |              |        | 23.18a | Jan 31 | 28.74  |
| INSTANTANEOUS LOW FLOW   |              |        | 53     | Oct 2  | 31     |
| ANNUAL RUNOFF (CFSM)     | 1.26         |        | 1.33   |        | 1.48   |
| ANNUAL RUNOFF (INCHES)   | 17.06        |        | 18.08  |        | 20.04  |
| 10 PERCENT EXCEEDS       | 4440         |        | 4670   |        | 5110   |
| 50 PERCENT EXCEEDS       | 811          |        | 541    |        | 697    |
| 90 PERCENT EXCEEDS       | 104          |        | 140    |        | 107    |

e Estimated  
a Observed.

## PEARL RIVER BASIN

02482550 PEARL RIVER NEAR CARTHAGE, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY  | OCT  | NOV  | DEC   | JAN   | FEB   | MAR  | APR | MAY   | JUN  | JUL  | AUG  | SEP  |
|------|------|------|-------|-------|-------|------|-----|-------|------|------|------|------|
| 1    | 2.70 | 3.76 | 8.25  | 9.75  | ---   | 7.66 | --- | 10.25 | 5.32 | ---  | 4.89 | 4.94 |
| 2    | 2.61 | 3.74 | 8.13  | 9.70  | ---   | 7.50 | --- | 9.67  | 4.98 | ---  | 4.43 | 4.64 |
| 3    | 5.92 | 4.34 | 8.02  | 9.84  | ---   | 7.31 | --- | 9.08  | 4.88 | ---  | 4.13 | 4.52 |
| 4    | 7.66 | 4.84 | 10.09 | 9.71  | ---   | 7.14 | --- | 8.44  | 5.13 | 3.44 | 3.92 | 4.40 |
| 5    | 6.56 | 4.98 | 10.07 | 9.55  | ---   | 6.99 | --- | 7.93  | 5.03 | 3.40 | 4.05 | 4.33 |
| 6    | 6.44 | 4.97 | 9.06  | 10.62 | ---   | 8.21 | --- | 7.46  | 4.68 | 3.34 | 4.54 | 4.17 |
| 7    | 6.25 | 5.40 | 8.85  | 12.92 | ---   | ---  | --- | 7.03  | 4.49 | 3.29 | 4.76 | 4.05 |
| 8    | 6.04 | 6.42 | 8.82  | 12.99 | ---   | ---  | --- | 6.67  | 4.47 | 3.23 | 4.63 | 4.03 |
| 9    | 5.76 | 6.67 | 10.18 | 12.81 | ---   | ---  | --- | 6.38  | 5.90 | 3.18 | 5.12 | 4.28 |
| 10   | 5.46 | 6.71 | 11.05 | 12.62 | ---   | ---  | --- | 6.04  | 6.06 | 3.12 | 4.99 | 4.34 |
| 11   | 5.20 | 9.31 | 10.84 | 12.80 | ---   | ---  | --- | 5.73  | 5.10 | 3.08 | 4.61 | 4.38 |
| 12   | 5.03 | 9.79 | 10.72 | 13.74 | ---   | ---  | --- | 5.65  | 4.58 | 3.03 | 4.39 | 4.23 |
| 13   | 4.91 | 9.36 | 10.39 | 13.97 | ---   | ---  | --- | 5.72  | 4.32 | 3.02 | 4.34 | 4.04 |
| 14   | 4.94 | 9.74 | 10.01 | 13.71 | 11.58 | ---  | --- | 5.71  | 4.23 | 3.01 | 4.26 | 3.91 |
| 15   | 4.92 | 9.71 | 9.83  | 13.32 | 11.02 | ---  | --- | 5.76  | 4.14 | 2.99 | 4.20 | 3.89 |
| 16   | 4.67 | 9.29 | 9.89  | 12.88 | 10.47 | ---  | --- | 5.68  | 4.12 | 3.01 | 4.15 | 4.16 |
| 17   | 4.34 | 8.98 | 10.35 | 12.33 | 10.00 | ---  | --- | 5.54  | 4.10 | 3.17 | 4.06 | 4.47 |
| 18   | 4.10 | 8.85 | 13.64 | 12.01 | 9.57  | ---  | --- | 5.35  | ---  | 3.48 | 3.92 | 4.14 |
| 19   | 3.93 | 8.80 | ---   | 12.37 | 9.22  | ---  | --- | 5.14  | ---  | 3.13 | 3.91 | 3.96 |
| 20   | 3.79 | 8.71 | ---   | 11.97 | 9.31  | ---  | --- | 4.94  | 4.78 | 3.04 | 3.92 | 3.94 |
| 21   | 3.63 | 8.50 | ---   | 11.38 | 9.38  | ---  | --- | 4.79  | 4.20 | 3.05 | 3.92 | 3.94 |
| 22   | 3.52 | 8.09 | ---   | 10.95 | 9.27  | ---  | --- | 4.64  | 3.98 | 3.07 | 3.92 | 3.94 |
| 23   | 3.44 | 7.60 | ---   | 10.57 | 9.17  | ---  | --- | 4.60  | 3.94 | 3.08 | 3.92 | 3.93 |
| 24   | 3.39 | 7.24 | ---   | 12.08 | 9.03  | ---  | --- | 4.46  | 3.99 | 3.08 | 3.92 | 3.93 |
| 25   | 3.33 | 6.99 | 18.47 | 12.77 | 8.78  | ---  | --- | 4.30  | ---  | 3.22 | 3.93 | 3.93 |
| 26   | 3.29 | 6.72 | 17.36 | 14.66 | 8.57  | ---  | --- | 4.13  | ---  | 3.39 | 4.70 | 3.93 |
| 27   | 3.39 | 6.55 | 15.93 | ---   | 8.36  | ---  | --- | 3.94  | ---  | 3.58 | 4.41 | 3.93 |
| 28   | 3.70 | 6.79 | 14.33 | ---   | 8.12  | ---  | --- | 4.10  | ---  | 4.07 | 4.48 | 3.92 |
| 29   | 3.92 | 8.58 | 12.55 | ---   | 7.87  | ---  | --- | 6.44  | ---  | 4.61 | 5.83 | 3.91 |
| 30   | 4.05 | 8.53 | 11.16 | ---   | ---   | ---  | --- | 6.19  | ---  | 4.66 | 5.61 | 3.91 |
| 31   | 3.92 | ---  | 10.34 | ---   | ---   | ---  | --- | 5.79  | ---  | 4.56 | 5.37 | ---  |
| MEAN | 4.54 | 7.33 | ---   | ---   | ---   | ---  | --- | 6.05  | ---  | ---  | 4.43 | 4.14 |
| MAX  | 7.66 | 9.79 | ---   | ---   | ---   | ---  | --- | 10.25 | ---  | ---  | 5.83 | 4.94 |
| MIN  | 2.61 | 3.74 | ---   | ---   | ---   | ---  | --- | 3.94  | ---  | ---  | 3.91 | 3.89 |



## 02483000 TUSCOLAMETA CREEK AT WALNUT GROVE, MS

LOCATION.--Lat 32°35'18", long 89°27'54", in 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, 0.4 mi southwest 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.--Estimated daily discharges: Jan. 29 - Feb. 8, Feb. 25 - Mar. 4, Apr. 29 - May 9. Records good except for estimated daily discharges, which are poor. Discharge computed by combining flow of individually rated channels. National Weather Service telemeter and satellite 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) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Dec. 20 | 0700 | 7,810                             | 26.80               | Mar. 9  | 1145 | 6,790                             | 26.51               |
| Jan. 27 | 2315 | *13,400                           | *28.08              | Mar. 27 | 1415 | 4,930                             | 25.45               |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT  | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1     | 14   | 43    | 152   | 196   | e2000 | e160  | 2140  | e82  | 35   | 21   | 255  | 166  |
| 2     | 14   | 48    | 120   | 1170  | e3400 | e150  | 1710  | e68  | 33   | 23   | 286  | 97   |
| 3     | 773  | 88    | 106   | 1680  | e4600 | e150  | 695   | e55  | 38   | 22   | 397  | 78   |
| 4     | 1230 | 234   | 545   | 1320  | e3800 | e140  | 350   | e45  | 35   | 25   | 186  | 114  |
| 5     | 1040 | 179   | 739   | 596   | e2700 | 135   | 312   | e41  | 31   | 25   | 186  | 67   |
| 6     | 568  | 102   | 517   | 820   | e1600 | 2140  | 309   | e35  | 23   | 26   | 263  | 47   |
| 7     | 284  | 368   | 485   | 1360  | e1000 | 4660  | 307   | e33  | 18   | 28   | 770  | 39   |
| 8     | 137  | 658   | 583   | 1090  | e720  | 5530  | 256   | e27  | 21   | 36   | 467  | 36   |
| 9     | 72   | 447   | 1560  | 580   | 548   | 6580  | 224   | e24  | 28   | 49   | 257  | 73   |
| 10    | 49   | 410   | 2070  | 399   | 455   | 4020  | 182   | 21   | 27   | 104  | 153  | 103  |
| 11    | 39   | 2420  | 1410  | 373   | 384   | 892   | 157   | 22   | 23   | 88   | 95   | 58   |
| 12    | 34   | 2420  | 627   | 815   | 314   | 404   | 151   | 21   | 17   | 47   | 86   | 47   |
| 13    | 29   | 1800  | 316   | 909   | 269   | 318   | 626   | 22   | 16   | 33   | 85   | 38   |
| 14    | 50   | 778   | 237   | 562   | 247   | 255   | 1390  | 20   | 327  | 39   | 73   | 36   |
| 15    | 76   | 383   | 194   | 382   | 237   | 234   | 2990  | 19   | 161  | 69   | 56   | 33   |
| 16    | 54   | 266   | 276   | 304   | 218   | 228   | 3130  | 17   | 97   | 74   | 48   | 33   |
| 17    | 42   | 183   | 714   | 267   | 196   | 223   | 2120  | 15   | 60   | 384  | 44   | 37   |
| 18    | 34   | 136   | 4300  | 385   | 184   | 250   | 588   | 16   | 37   | 439  | 40   | 45   |
| 19    | 30   | 108   | 6460  | 551   | 197   | 905   | 315   | 14   | 31   | 370  | 36   | 44   |
| 20    | 29   | 87    | 7540  | 479   | 318   | 1060  | 248   | 14   | 43   | 127  | 33   | 44   |
| 21    | 31   | 80    | 5620  | 353   | 341   | 569   | 195   | 14   | 24   | 90   | 30   | 50   |
| 22    | 30   | 67    | 1970  | 313   | 279   | 303   | 162   | 14   | 22   | 53   | 28   | 51   |
| 23    | 33   | 69    | 546   | 281   | 240   | 229   | 710   | 16   | 19   | 36   | 26   | 54   |
| 24    | 29   | 165   | 364   | 1940  | 211   | 204   | 880   | 14   | 22   | 39   | 28   | 52   |
| 25    | 27   | 192   | 296   | 2370  | e200  | 2510  | 506   | 14   | 25   | 262  | 55   | 40   |
| 26    | 28   | 146   | 259   | 5060  | e190  | 3960  | 275   | 21   | 26   | 344  | 181  | 23   |
| 27    | 37   | 111   | 231   | 9990  | e180  | 4770  | 237   | 25   | 31   | 189  | 94   | 22   |
| 28    | 152  | 141   | 210   | 11100 | e180  | 3310  | 165   | 44   | 37   | 280  | 60   | 46   |
| 29    | 124  | 224   | 191   | e7100 | e170  | 1630  | e140  | 173  | 30   | 530  | 143  | 61   |
| 30    | 68   | 201   | 179   | e4400 | ---   | 999   | e110  | 130  | 24   | 307  | 376  | 43   |
| 31    | 48   | ---   | 177   | e2900 | ---   | 1620  | ---   | 55   | ---  | 171  | 372  | ---  |
| TOTAL | 5205 | 12554 | 38994 | 60045 | 25378 | 48528 | 21580 | 1131 | 1361 | 4330 | 5209 | 1677 |
| MEAN  | 168  | 418   | 1258  | 1937  | 875   | 1565  | 719   | 36.5 | 45.4 | 140  | 168  | 55.9 |
| MAX   | 1230 | 2420  | 7540  | 11100 | 4600  | 6580  | 3130  | 173  | 327  | 530  | 770  | 166  |
| MIN   | 14   | 43    | 106   | 196   | 170   | 135   | 110   | 14   | 16   | 21   | 26   | 22   |
| CFSM  | .41  | 1.02  | 3.06  | 4.71  | 2.13  | 3.81  | 1.75  | .09  | .11  | .34  | .41  | .14  |
| IN.   | .47  | 1.14  | 3.53  | 5.43  | 2.30  | 4.39  | 1.95  | .10  | .12  | .39  | .47  | .15  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1996, BY WATER YEAR (WY)

|      | 113  | 320  | 600  | 1036 | 1257 | 1234 | 1051 | 518  | 170  | 191  | 110  | 82.6 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 113  | 320  | 600  | 1036 | 1257 | 1234 | 1051 | 518  | 170  | 191  | 110  | 82.6 |
| 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 | 95.3 | 215  | 189  | 47.4 | 26.3 | 11.8 | 13.2 | 9.00 | 4.13 |
| (WY) | 1955 | 1954 | 1939 | 1988 | 1968 | 1967 | 1967 | 1965 | 1972 | 1956 | 1956 | 1954 |

| SUMMARY STATISTICS       | FOR 1995 CALENDAR YEAR | FOR 1996 WATER YEAR | WATER YEARS 1939 - 1996 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 205422                 | 225992              |                         |
| ANNUAL MEAN              | 563                    | 617                 | 553                     |
| HIGHEST ANNUAL MEAN      |                        |                     | 1303                    |
| LOWEST ANNUAL MEAN       |                        |                     | 144                     |
| HIGHEST DAILY MEAN       | 8600                   | Apr 25              | 11100                   |
| LOWEST DAILY MEAN        | 14                     | Sep 9               | 14                      |
| ANNUAL SEVEN-DAY MINIMUM | 15                     | Sep 8               | 14                      |
| INSTANTANEOUS PEAK FLOW  |                        |                     | 13400                   |
| INSTANTANEOUS PEAK STAGE |                        |                     | 28.08                   |
| ANNUAL RUNOFF (CFSM)     | 1.37                   |                     | 1.50                    |
| ANNUAL RUNOFF (INCHES)   | 18.59                  |                     | 20.45                   |
| 10 PERCENT EXCEEDS       | 1510                   |                     | 1690                    |
| 50 PERCENT EXCEEDS       | 123                    |                     | 168                     |
| 90 PERCENT EXCEEDS       | 24                     |                     | 16                      |

e Estimated

## PEARL RIVER BASIN

02483000 TUSCOLAMETA CREEK AT WALNUT GROVE, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY  | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1    | 11.30 | 11.77 | 12.69 | 12.84 | 20.59 | ---   | 19.70 | ---   | 11.82 | 11.61 | 12.93 | 11.98 |
| 2    | 11.28 | 11.82 | 12.50 | 16.87 | 23.83 | ---   | 17.83 | ---   | 11.79 | 11.67 | 13.01 | 11.82 |
| 3    | 15.33 | 12.10 | 12.41 | 18.37 | 25.41 | ---   | 14.72 | ---   | 11.87 | 11.67 | 13.61 | 11.74 |
| 4    | 16.76 | 13.14 | 14.56 | 16.82 | ---   | ---   | 13.47 | ---   | 11.83 | 11.71 | 12.55 | 11.61 |
| 5    | 15.91 | 12.74 | 15.18 | 14.53 | ---   | 12.44 | 13.50 | ---   | 11.76 | 11.72 | 12.89 | 11.52 |
| 6    | 14.35 | 12.21 | 14.14 | 15.72 | ---   | 19.86 | 13.55 | ---   | 11.58 | 11.77 | 13.33 | 11.50 |
| 7    | 13.03 | 13.43 | 14.21 | 17.62 | ---   | 25.20 | 13.51 | ---   | 11.46 | 11.80 | 15.20 | 11.49 |
| 8    | 12.28 | 14.88 | 14.52 | 16.47 | ---   | 25.85 | 13.15 | ---   | 11.50 | 11.85 | 13.79 | 11.48 |
| 9    | 11.97 | 13.85 | 18.51 | 14.65 | 14.67 | 26.43 | 12.91 | ---   | 11.59 | 11.93 | 13.15 | 11.84 |
| 10   | 11.80 | 13.83 | 19.83 | 13.90 | 14.24 | 24.19 | 12.66 | 11.52 | 11.48 | 12.38 | 12.54 | 12.16 |
| 11   | 11.72 | 21.13 | 17.41 | 13.77 | 13.91 | 16.43 | 12.55 | 11.54 | 11.43 | 12.24 | 12.08 | 11.75 |
| 12   | 11.67 | 20.84 | 14.84 | 15.77 | 13.53 | 13.96 | 12.54 | 11.55 | 11.39 | 11.84 | 12.00 | 11.63 |
| 13   | 11.62 | 19.19 | 13.58 | 15.83 | 13.21 | 13.49 | 14.84 | 11.57 | 11.40 | 11.72 | 11.98 | 11.57 |
| 14   | 11.71 | 15.89 | 13.16 | 14.49 | 13.09 | 13.07 | 17.57 | 11.53 | 12.67 | 11.82 | 11.87 | 11.53 |
| 15   | 11.88 | 14.04 | 12.94 | 13.76 | 13.05 | 12.97 | 22.33 | 11.50 | 12.17 | 12.00 | 11.73 | 11.52 |
| 16   | 11.77 | 13.29 | 13.34 | 13.38 | 12.95 | 12.97 | 22.12 | 11.45 | 12.15 | 12.10 | 11.67 | 11.54 |
| 17   | 11.69 | 12.87 | 14.93 | 13.19 | 12.81 | 12.98 | 19.60 | 11.41 | 11.96 | 13.92 | 11.64 | 11.60 |
| 18   | 11.65 | 12.61 | 24.26 | 13.86 | 12.76 | 13.10 | 14.79 | 11.40 | 11.76 | 14.92 | 11.59 | 11.71 |
| 19   | 11.61 | 12.45 | 26.26 | 14.35 | 12.82 | 16.00 | 13.57 | 11.39 | 11.68 | 14.58 | 11.57 | 11.69 |
| 20   | 11.61 | 12.33 | 26.72 | 13.94 | 13.63 | 16.15 | 13.23 | 11.42 | 11.93 | 12.51 | 11.55 | 11.71 |
| 21   | 11.67 | 12.29 | 25.89 | 13.59 | 13.74 | 14.28 | 12.91 | 11.42 | 11.68 | 12.03 | 11.53 | 11.73 |
| 22   | 11.67 | 12.19 | 20.01 | 13.44 | 13.30 | 13.21 | 12.69 | 11.45 | 11.59 | 11.81 | 11.52 | 11.77 |
| 23   | 11.67 | 12.17 | 14.69 | 13.24 | 13.10 | 12.86 | 15.23 | 11.56 | 11.55 | 11.69 | 11.51 | 11.82 |
| 24   | 11.63 | 12.74 | 13.77 | 19.67 | 12.93 | 12.80 | 15.28 | 11.49 | 11.54 | 11.65 | 11.51 | 11.82 |
| 25   | 11.60 | 12.92 | 13.42 | 20.54 | ---   | 20.86 | 14.17 | 11.47 | 11.56 | 12.93 | 11.55 | 11.72 |
| 26   | 11.62 | 12.62 | 13.22 | 23.44 | ---   | 24.28 | 13.33 | 11.60 | 11.64 | 13.70 | 11.81 | 11.49 |
| 27   | 11.71 | 12.44 | 13.06 | 27.31 | ---   | 25.27 | 13.24 | 11.65 | 11.65 | 12.80 | 11.82 | 11.47 |
| 28   | 12.19 | 12.73 | 12.93 | 27.64 | ---   | 23.07 | 12.77 | 11.84 | 11.69 | 13.49 | 11.69 | 11.66 |
| 29   | 12.15 | 13.27 | 12.80 | 26.62 | ---   | 18.45 | ---   | 12.75 | 11.66 | 14.71 | 11.88 | 11.78 |
| 30   | 11.89 | 13.09 | 12.72 | 24.83 | ---   | 16.44 | ---   | 12.60 | 11.62 | 13.32 | 12.19 | 11.59 |
| 31   | 11.77 | ---   | 12.71 | 22.81 | ---   | 18.49 | ---   | 12.01 | ---   | 12.59 | 12.17 | ---   |
| MEAN | 12.27 | 13.70 | 15.85 | 17.20 | ---   | ---   | ---   | ---   | 11.71 | 12.47 | 12.25 | 11.67 |
| MAX  | 16.76 | 21.13 | 26.72 | 27.64 | ---   | ---   | ---   | ---   | 12.67 | 14.92 | 15.20 | 12.16 |
| MIN  | 11.28 | 11.77 | 12.41 | 12.84 | ---   | ---   | ---   | ---   | 11.39 | 11.61 | 11.51 | 11.47 |

## 02483500 PEARL RIVER NEAR LENA, MS

LOCATION.--Lat 32°40'02", long 89°38'46", in 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 State 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.

DRAINAGE AREA.--1981 mi<sup>2</sup>.

PERIOD OF RECORD.--Oct. 1936 to Sept. 1953, July 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.

GAGE.--Water-stage recorder. Elevation of gage is 300.00 ft above sea level, from U.S. Army Corps of Engineers levels. Prior to Jan. 1984 at site at old Highway 13 bridge .3 mi upstream at datum 0.5 ft lower.

REMARKS.--Estimated discharges: Mar. 7-12. Records good except estimated daily discharges, which are poor.

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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC    | JAN    | FEB    | MAR    | APR    | MAY   | JUN   | JUL  | AUG   | SEP   |
|-------|-------|-------|--------|--------|--------|--------|--------|-------|-------|------|-------|-------|
| 1     | 239   | 303   | 1570   | 1820   | 21700  | 1100   | 7750   | 2240  | 795   | 268  | 523   | 659   |
| 2     | 230   | 299   | 1470   | 2010   | 19800  | 1050   | 7900   | 1850  | 802   | 251  | 539   | 477   |
| 3     | 907   | 344   | 1370   | 3160   | 18100  | 997    | 6860   | 1560  | 574   | 241  | 536   | 425   |
| 4     | 2360  | 427   | 2130   | 3420   | 16200  | 939    | 4960   | 1290  | 558   | 230  | 493   | 389   |
| 5     | 2020  | 568   | 2940   | 2970   | 15000  | 866    | 3830   | 1080  | 682   | 222  | 383   | 396   |
| 6     | 1540  | 535   | 2560   | 3090   | 13300  | 1440   | 3240   | 928   | 678   | 217  | 421   | 365   |
| 7     | 1090  | 544   | 2080   | 5590   | 10500  | e2300  | 2930   | 802   | 508   | 214  | 674   | 334   |
| 8     | 838   | 1070  | 2040   | 5870   | 8810   | e3900  | 2620   | 700   | 500   | 214  | 775   | 317   |
| 9     | 688   | 1260  | 2840   | 5230   | 7640   | e6600  | 2300   | 634   | 576   | 212  | 638   | 322   |
| 10    | 587   | 1080  | 4270   | 4640   | 6560   | e7800  | 2010   | 565   | 743   | 213  | 560   | 365   |
| 11    | 514   | 2510  | 4480   | 4440   | 5470   | e8300  | 1730   | 520   | 549   | 247  | 438   | 374   |
| 12    | 463   | 4160  | 3840   | 5120   | 4470   | e7720  | 1510   | 481   | 401   | 239  | 378   | 367   |
| 13    | 428   | 4040  | 2990   | 5590   | 3630   | 6550   | 1820   | 457   | 377   | 221  | 364   | 331   |
| 14    | 423   | 3380  | 2440   | 5330   | 3010   | 6110   | 3410   | 420   | 415   | 217  | 346   | 306   |
| 15    | 438   | 2470  | 2130   | 4850   | 2570   | 5330   | 5980   | 399   | 523   | 222  | 332   | 290   |
| 16    | 431   | 2000  | 2060   | 4500   | 2240   | 4250   | 7300   | 375   | 398   | 244  | 318   | 311   |
| 17    | 377   | 1710  | 2540   | 4120   | 1990   | 3120   | 7460   | 358   | 372   | 307  | 311   | 353   |
| 18    | 330   | 1550  | 5570   | 3620   | 1780   | 2440   | 6340   | 340   | 341   | 543  | 298   | 328   |
| 19    | 300   | 1470  | 11500  | 4090   | 1620   | 2920   | 4250   | 325   | 332   | 598  | 282   | 303   |
| 20    | 281   | 1420  | 14600  | 4100   | 1660   | 3600   | 3210   | 310   | 367   | 412  | 270   | 283   |
| 21    | 263   | 1340  | 15800  | 3570   | 1860   | 3330   | 2990   | 297   | 340   | 301  | 262   | 273   |
| 22    | 248   | 1230  | 15300  | 3140   | 1840   | 2860   | 2990   | 287   | 296   | 271  | 257   | 267   |
| 23    | 233   | 1080  | 13400  | 2870   | 1760   | 2630   | 4400   | 283   | 282   | 245  | 251   | 261   |
| 24    | 228   | 976   | 11500  | 4200   | 1630   | 2320   | 5740   | 282   | 278   | 235  | 245   | 264   |
| 25    | 221   | 991   | 10400  | 6420   | 1500   | 3280   | 5640   | 272   | 275   | 237  | 242   | 273   |
| 26    | 223   | 922   | 9020   | 7830   | 1370   | 7150   | 5210   | 265   | 270   | 417  | 379   | 268   |
| 27    | 238   | 862   | 7280   | 16600  | 1280   | 8600   | 5000   | 262   | 266   | 409  | 422   | 264   |
| 28    | 257   | 860   | 5610   | 21800  | 1210   | 9360   | 4590   | 279   | 263   | 401  | 355   | 279   |
| 29    | 326   | 1730  | 4070   | 24100  | 1150   | 9260   | 3900   | 584   | 273   | 618  | 512   | 297   |
| 30    | 332   | 1750  | 2790   | 23000  | ---    | 7800   | 2930   | 772   | 284   | 688  | 659   | 321   |
| 31    | 318   | ---   | 2130   | 23200  | ---    | 7170   | ---    | 720   | ---   | 583  | 775   | ---   |
| TOTAL | 17371 | 42881 | 172720 | 220290 | 179650 | 141092 | 130800 | 19937 | 13318 | 9937 | 13238 | 10062 |
| MEAN  | 560   | 1429  | 5572   | 7106   | 6195   | 4551   | 4360   | 643   | 444   | 321  | 427   | 335   |
| MAX   | 2360  | 4160  | 15800  | 24100  | 21700  | 9360   | 7900   | 2240  | 802   | 688  | 775   | 659   |
| MIN   | 221   | 299   | 1370   | 1820   | 1150   | 866    | 1510   | 262   | 263   | 212  | 242   | 261   |
| CFSM  | .28   | .72   | 2.81   | 3.59   | 3.13   | 2.30   | 2.20   | .32   | .22   | .16  | .22   | .17   |
| IN.   | .33   | .81   | 3.24   | 4.14   | 3.37   | 2.65   | 2.46   | .37   | .25   | .19  | .25   | .19   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1996, BY WATER YEAR (WY)

|      | MEAN | 750  | 1031 | 3810 | 5065 | 4518 | 6052 | 5363 | 1299 | 853  | 319  | 674  | 291  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MAX  | 940  | 1429 | 5572 | 7106 | 6195 | 7553 | 6366 | 1955 | 1262 | 321  | 920  | 335  |      |
| (WY) | 1995 | 1996 | 1996 | 1996 | 1996 | 1995 | 1995 | 1995 | 1995 | 1996 | 1995 | 1996 | 1996 |
| MIN  | 560  | 632  | 2049 | 3025 | 2781 | 4551 | 4360 | 643  | 444  | 317  | 427  | 246  |      |
| (WY) | 1996 | 1995 | 1995 | 1995 | 1995 | 1996 | 1996 | 1996 | 1996 | 1996 | 1996 | 1995 | 1995 |

| SUMMARY STATISTICS       | FOR 1995 CALENDAR YEAR | FOR 1996 WATER YEAR | WATER YEARS 1994 - 1996 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 973945                 | 971296              |                         |
| ANNUAL MEAN              | 2668                   | 2654                | 2495                    |
| HIGHEST ANNUAL MEAN      |                        |                     | 2654                    |
| LOWEST ANNUAL MEAN       |                        |                     | 2336                    |
| HIGHEST DAILY MEAN       | 24500                  | Apr 25              | 24500                   |
| LOWEST DAILY MEAN        | 179                    | Jul 27              | 171                     |
| ANNUAL SEVEN-DAY MINIMUM | 188                    | Jul 22              | 182                     |
| INSTANTANEOUS PEAK FLOW  |                        |                     | 46500                   |
| INSTANTANEOUS LOW FLOW   |                        |                     | 28.56                   |
| ANNUAL RUNOFF (CFSM)     | 1.35                   |                     | 1.26                    |
| ANNUAL RUNOFF (INCHES)   | 18.29                  |                     | 17.11                   |
| 10 PERCENT EXCEEDS       | 7060                   |                     | 6320                    |
| 50 PERCENT EXCEEDS       | 1260                   |                     | 1040                    |
| 90 PERCENT EXCEEDS       | 234                    |                     | 251                     |

e Estimated

## PEARL RIVER BASIN

02483500 PEARL RIVER NEAR LENA , MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY  | OCT  | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1    | 4.41 | 4.65  | 7.68  | 8.14  | 23.92 | 6.69  | 15.48 | 8.90 | 6.12 | 4.57 | 5.34 | 5.67 |
| 2    | 4.38 | 4.63  | 7.47  | 8.46  | 23.22 | 6.59  | 15.62 | 8.24 | 6.14 | 4.51 | 5.39 | 5.16 |
| 3    | 6.14 | 4.77  | 7.27  | 10.26 | 22.45 | 6.46  | 14.58 | 7.69 | 5.55 | 4.47 | 5.38 | 5.00 |
| 4    | 9.11 | 5.03  | 8.65  | 10.62 | 21.47 | 6.33  | 12.53 | 7.16 | 5.50 | 4.43 | 5.26 | 4.89 |
| 5    | 8.55 | 5.43  | 9.96  | 10.00 | 20.80 | 6.16  | 11.15 | 6.72 | 5.84 | 4.40 | 4.92 | 4.92 |
| 6    | 7.67 | 5.34  | 9.39  | 10.13 | 19.75 | 7.37  | 10.37 | 6.36 | 5.83 | 4.38 | 5.04 | 4.82 |
| 7    | 6.73 | 5.35  | 8.62  | 13.23 | 17.80 | ---   | 9.94  | 6.07 | 5.35 | 4.37 | 5.74 | 4.71 |
| 8    | 6.16 | 6.65  | 8.54  | 13.55 | 16.45 | ---   | 9.49  | 5.82 | 5.33 | 4.37 | 6.01 | 4.65 |
| 9    | 5.79 | 7.07  | 9.78  | 12.84 | 15.36 | ---   | 8.99  | 5.65 | 5.54 | 4.35 | 5.65 | 4.66 |
| 10   | 5.52 | 6.65  | 11.70 | 12.15 | 14.28 | ---   | 8.48  | 5.47 | 5.98 | 4.35 | 5.44 | 4.81 |
| 11   | 5.32 | 9.20  | 11.96 | 11.92 | 13.11 | ---   | 7.98  | 5.35 | 5.46 | 4.48 | 5.09 | 4.84 |
| 12   | 5.17 | 11.58 | 11.16 | 12.72 | 11.95 | ---   | 7.55  | 5.24 | 5.03 | 4.45 | 4.90 | 4.81 |
| 13   | 5.07 | 11.42 | 10.02 | 13.25 | 10.89 | 14.27 | 8.12  | 5.17 | 4.95 | 4.39 | 4.85 | 4.69 |
| 14   | 5.06 | 10.56 | 9.22  | 12.95 | 10.05 | 13.81 | 10.59 | 5.07 | 5.07 | 4.37 | 4.79 | 4.60 |
| 15   | 5.10 | 9.25  | 8.71  | 12.40 | 9.41  | 12.95 | 13.66 | 5.00 | 5.39 | 4.39 | 4.75 | 4.55 |
| 16   | 5.08 | 8.47  | 8.58  | 11.99 | 8.90  | 11.67 | 15.03 | 4.94 | 5.02 | 4.47 | 4.70 | 4.62 |
| 17   | 4.92 | 7.94  | 9.36  | 11.52 | 8.46  | 10.20 | 15.19 | 4.89 | 4.94 | 4.69 | 4.67 | 4.76 |
| 18   | 4.77 | 7.63  | 13.12 | 10.88 | 8.07  | 9.22  | 14.04 | 4.84 | 4.83 | 5.42 | 4.62 | 4.66 |
| 19   | 4.67 | 7.47  | 18.48 | 11.48 | 7.77  | 9.92  | 11.67 | 4.79 | 4.80 | 5.57 | 4.57 | 4.58 |
| 20   | 4.61 | 7.36  | 20.61 | 11.49 | 7.85  | 10.85 | 10.33 | 4.74 | 4.91 | 5.02 | 4.53 | 4.51 |
| 21   | 4.54 | 7.21  | 21.29 | 10.82 | 8.22  | 10.50 | 10.03 | 4.71 | 4.82 | 4.66 | 4.50 | 4.48 |
| 22   | 4.49 | 6.97  | 21.01 | 10.24 | 8.19  | 9.84  | 10.02 | 4.67 | 4.68 | 4.56 | 4.47 | 4.45 |
| 23   | 4.44 | 6.64  | 19.86 | 9.86  | 8.04  | 9.50  | 11.84 | 4.66 | 4.63 | 4.46 | 4.45 | 4.43 |
| 24   | 4.42 | 6.41  | 18.56 | 11.56 | 7.79  | 9.03  | 13.41 | 4.66 | 4.61 | 4.43 | 4.42 | 4.44 |
| 25   | 4.40 | 6.45  | 17.77 | 14.13 | 7.52  | 10.35 | 13.30 | 4.62 | 4.60 | 4.43 | 4.41 | 4.48 |
| 26   | 4.39 | 6.29  | 16.63 | 15.47 | 7.28  | 14.86 | 12.82 | 4.60 | 4.58 | 5.04 | 4.87 | 4.46 |
| 27   | 4.45 | 6.15  | 15.00 | 21.58 | 7.08  | 16.27 | 12.58 | 4.58 | 4.57 | 5.01 | 5.01 | 4.44 |
| 28   | 4.51 | 6.14  | 13.26 | 23.91 | 6.93  | 16.92 | 12.10 | 4.64 | 4.55 | 4.99 | 4.79 | 4.50 |
| 29   | 4.74 | 7.97  | 11.45 | 24.51 | 6.80  | 16.84 | 11.25 | 5.56 | 4.59 | 5.61 | 5.27 | 4.56 |
| 30   | 4.76 | 8.02  | 9.74  | 24.26 | ---   | 15.51 | 9.94  | 6.06 | 4.63 | 5.79 | 5.67 | 4.64 |
| 31   | 4.70 | ---   | 8.70  | 24.32 | ---   | 14.90 | ---   | 5.93 | ---  | 5.51 | 5.97 | ---  |
| MEAN | 5.29 | 7.16  | 12.37 | 13.57 | 12.41 | ---   | 11.60 | 5.57 | 5.13 | 4.71 | 5.02 | 4.69 |
| MAX  | 9.11 | 11.58 | 21.29 | 24.51 | 23.92 | ---   | 15.62 | 8.90 | 6.14 | 5.79 | 6.01 | 5.67 |
| MIN  | 4.38 | 4.63  | 7.27  | 8.14  | 6.80  | ---   | 7.55  | 4.58 | 4.55 | 4.35 | 4.41 | 4.43 |

## 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.--Estimated daily discharges: Feb. 3-6, 20-22, Mar. 20-21, Apr. 25-29. Records good except for estimated discharges, which are poor. 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) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Dec. 19 | 1600 | *4,030                            | *13.47              | Apr. 24 | 0300 | 3,200                             | 12.86               |
| Jan. 27 | 1800 | 3,470                             | 13.07               |         |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1     | 15   | 33   | 269   | 215   | 534   | 139   | 285   | 125  | 49   | 14   | 23   | 30   |
| 2     | 15   | 67   | 202   | 702   | 1200  | 127   | 222   | 93   | 756  | 13   | 24   | 27   |
| 3     | 29   | 160  | 173   | 673   | e1900 | 119   | 175   | 76   | 608  | 13   | 25   | 31   |
| 4     | 43   | 130  | 232   | 404   | e1200 | 109   | 147   | 66   | 175  | 13   | 23   | 27   |
| 5     | 53   | 85   | 244   | 294   | e750  | 103   | 131   | 57   | 73   | 12   | 22   | 27   |
| 6     | 46   | 62   | 198   | 797   | e600  | 197   | 132   | 54   | 46   | 11   | 22   | 26   |
| 7     | 36   | 100  | 169   | 1610  | 507   | 467   | 172   | 52   | 37   | 11   | 20   | 23   |
| 8     | 27   | 194  | 173   | 1550  | 578   | 381   | 151   | 46   | 63   | 11   | 20   | 20   |
| 9     | 22   | 156  | 591   | 791   | 495   | 252   | 118   | 43   | 45   | 10   | 21   | 62   |
| 10    | 19   | 96   | 512   | 394   | 403   | 191   | 101   | 40   | 36   | 11   | 21   | 26   |
| 11    | 17   | 268  | 313   | 476   | 345   | 169   | 93    | 37   | 34   | 11   | 20   | 22   |
| 12    | 17   | 358  | 227   | 1190  | 292   | 151   | 83    | 37   | 32   | 11   | 20   | 20   |
| 13    | 16   | 223  | 188   | 1450  | 247   | 143   | 375   | 37   | 28   | 11   | 22   | 18   |
| 14    | 18   | 160  | 162   | 836   | 226   | 136   | 714   | 34   | 47   | 11   | 22   | 17   |
| 15    | 19   | 126  | 145   | 406   | 216   | 131   | 1420  | 33   | 64   | 13   | 20   | 15   |
| 16    | 20   | 101  | 499   | 316   | 203   | 127   | 1060  | 32   | 37   | 23   | 18   | 15   |
| 17    | 20   | 84   | 761   | 281   | 190   | 117   | 377   | 31   | 30   | 17   | 16   | 17   |
| 18    | 18   | 74   | 1660  | 336   | 180   | 140   | 241   | 30   | 26   | 14   | 15   | 17   |
| 19    | 17   | 73   | 3720  | 721   | 185   | 747   | 189   | 29   | 22   | 13   | 14   | 17   |
| 20    | 17   | 70   | 3410  | 576   | e300  | e1000 | 378   | 26   | 20   | 12   | 14   | 16   |
| 21    | 17   | 67   | 3010  | 414   | e280  | e400  | 1230  | 23   | 19   | 11   | 16   | 21   |
| 22    | 16   | 63   | 1920  | 367   | e250  | 285   | 1660  | 22   | 19   | 10   | 14   | 63   |
| 23    | 16   | 79   | 483   | 311   | 217   | 215   | 2600  | 22   | 20   | 11   | 12   | 48   |
| 24    | 16   | 187  | 274   | 1020  | 189   | 178   | 3010  | 23   | 18   | 12   | 12   | 28   |
| 25    | 16   | 231  | 218   | 1720  | 162   | 1140  | e2460 | 23   | 16   | 23   | 14   | 23   |
| 26    | 17   | 190  | 191   | 1820  | 147   | 2530  | e1000 | 31   | 15   | 30   | 26   | 19   |
| 27    | 20   | 152  | 172   | 3130  | 144   | 2390  | e400  | 28   | 23   | 24   | 64   | 17   |
| 28    | 34   | 239  | 157   | 3120  | 149   | 2020  | e250  | 683  | 20   | 48   | 53   | 26   |
| 29    | 63   | 508  | 143   | 3060  | 157   | 808   | e190  | 2030 | 17   | 49   | 114  | 44   |
| 30    | 48   | 367  | 132   | 2220  | ---   | 362   | 150   | 624  | 15   | 30   | 46   | 37   |
| 31    | 40   | ---  | 144   | 1090  | ---   | 315   | ---   | 95   | ---  | 24   | 36   | ---  |
| TOTAL | 787  | 4703 | 20692 | 32290 | 12246 | 15589 | 19514 | 4582 | 2410 | 527  | 809  | 799  |
| MEAN  | 25.4 | 157  | 667   | 1042  | 422   | 503   | 650   | 148  | 80.3 | 17.0 | 26.1 | 26.6 |
| MAX   | 63   | 508  | 3720  | 3130  | 1900  | 2530  | 3010  | 2030 | 756  | 49   | 114  | 63   |
| MIN   | 15   | 33   | 132   | 215   | 144   | 103   | 83    | 22   | 15   | 10   | 12   | 15   |
| CFSM  | .08  | .52  | 2.20  | 3.44  | 1.39  | 1.66  | 2.15  | .49  | .27  | .06  | .09  | .09  |
| IN.   | .10  | .58  | 2.54  | 3.96  | 1.50  | 1.91  | 2.40  | .56  | .30  | .06  | .10  | .10  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1996, BY WATER YEAR (WY)

|      | MEAN | 85.3 | 262  | 572  | 824  | 983  | 959  | 803  | 445  | 153  | 171  | 74.5 | 69.0 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MAX  | 748  | 1694 | 3640 | 3010 | 2318 | 3132 | 3818 | 2756 | 966  | 1241 | 492  | 687  |      |
| (WY) | 1976 | 1980 | 1983 | 1974 | 1951 | 1980 | 1979 | 1991 | 1989 | 1989 | 1975 | 1979 |      |
| MIN  | 5.28 | 15.3 | 43.5 | 49.4 | 173  | 177  | 50.4 | 20.6 | 11.5 | 17.0 | 3.95 | 4.56 |      |
| (WY) | 1944 | 1954 | 1944 | 1956 | 1986 | 1966 | 1967 | 1963 | 1988 | 1996 | 1943 | 1954 |      |

## SUMMARY STATISTICS

## FOR 1995 CALENDAR YEAR

## FOR 1996 WATER YEAR

## WATER YEARS 1938 - 1996

|                          | 1995 CALENDAR YEAR | 1996 WATER YEAR | WATER YEARS 1938 - 1996 |
|--------------------------|--------------------|-----------------|-------------------------|
| ANNUAL TOTAL             | 153195             | 114948          |                         |
| ANNUAL MEAN              | 420                | 314             | 447                     |
| HIGHEST ANNUAL MEAN      |                    |                 | 1217                    |
| LOWEST ANNUAL MEAN       |                    |                 | 90.6                    |
| HIGHEST DAILY MEAN       | 9030               | Apr 24          | 34300                   |
| LOWEST DAILY MEAN        | 11                 | Sep 10          | 2.3                     |
| ANNUAL SEVEN-DAY MINIMUM | 11                 | Sep 8           | 2.4                     |
| INSTANTANEOUS PEAK FLOW  |                    |                 | 40700                   |
| INSTANTANEOUS PEAK STAGE |                    |                 | 23.06                   |
| INSTANTANEOUS LOW FLOW   |                    |                 | 2.3                     |
| ANNUAL RUNOFF (CFSM)     | 1.39               | 1.04            | 1.48                    |
| ANNUAL RUNOFF (INCHES)   | 18.81              | 14.11           | 20.06                   |
| 10 PERCENT EXCEEDS       | 719                | 800             | 1220                    |
| 50 PERCENT EXCEEDS       | 102                | 81              | 94                      |
| 90 PERCENT EXCEEDS       | 16                 | 16              | 14                      |

e Estimated



## PEARL RIVER BASIN

02484500 YOCKANOOKANY RIVER NEAR OFAHOMA, MS

LOCATION.--Lat 32°42'20", long 89°40'20", in NE1/4 NW1/4 sec.22, T.10 N., R.6 E., Choctaw Meridian, Leake County, Hydrologic Unit 03180001, near center of main span on downstream side of bridge on State Highway 16, 1.5 mi east of Ofahoma, 3.5 mi upstream from mouth, and 8.5 mi southwest of Carthage.

DRAINAGE AREA.--469 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1943 to current year. Daily mean gage heights published since October 1971. Prior to October 1947 published as Yokahockany River near Ofahoma.

REVISED RECORDS.--WSP 1204: 1948. WSP 1504: 1949. WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 306.15 ft above sea level (levels by U. S. Army Corps of Engineers). Prior to June 10, 1988, at datum 5.00 ft. higher. Prior to Sept. 5, 1962, nonrecording gage at same site.

REMARKS.--Estimated daily discharges: Oct. 1-2, due to silted well and Mar. 9-12, due to backwater from Pearl River. Records fair except for estimated daily discharges, which are poor. National Weather Service telemeter and satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,700 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) |      |      |
|--------------------------------------------------------------------------------------------------|------|-----------------------------------|-------|---------------------|-------|---------|-------|-----------------------------------|------|---------------------|------|------|
| Dec. 22                                                                                          | 0445 | 2,890                             |       | 18.05               |       | Jan. 27 | 2100  | *3,680                            |      | *19.29              |      |      |
| DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996<br>DAILY MEAN VALUES |      |                                   |       |                     |       |         |       |                                   |      |                     |      |      |
| DAY                                                                                              | OCT  | NOV                               | DEC   | JAN                 | FEB   | MAR     | APR   | MAY                               | JUN  | JUL                 | AUG  | SEP  |
| 1                                                                                                | e35  | 63                                | 322   | 203                 | 3050  | 192     | 1540  | 349                               | 768  | 34                  | 154  | 91   |
| 2                                                                                                | e35  | 63                                | 348   | 264                 | 2820  | 192     | 1040  | 262                               | 760  | 32                  | 96   | 67   |
| 3                                                                                                | 38   | 72                                | 273   | 371                 | 2470  | 180     | 708   | 215                               | 363  | 29                  | 67   | 60   |
| 4                                                                                                | 41   | 90                                | 275   | 508                 | 2050  | 168     | 473   | 180                               | 450  | 26                  | 57   | 51   |
| 5                                                                                                | 39   | 127                               | 371   | 676                 | 1870  | 161     | 329   | 152                               | 664  | 24                  | 52   | 66   |
| 6                                                                                                | 48   | 125                               | 375   | 1060                | 1760  | 185     | 266   | 133                               | 630  | 23                  | 48   | 54   |
| 7                                                                                                | 51   | 115                               | 274   | 1510                | 1550  | 555     | 240   | 118                               | 286  | 23                  | 49   | 46   |
| 8                                                                                                | 53   | 123                               | 204   | 1230                | 1180  | 643     | 224   | 109                               | 379  | 22                  | 48   | 44   |
| 9                                                                                                | 48   | 128                               | 268   | 1190                | 881   | e600    | 230   | 106                               | 416  | 22                  | 53   | 41   |
| 10                                                                                               | 42   | 154                               | 432   | 1340                | 792   | e480    | 209   | 99                                | 401  | 21                  | 45   | 40   |
| 11                                                                                               | 37   | 191                               | 481   | 1380                | 767   | e380    | 181   | 93                                | 187  | 21                  | 42   | 80   |
| 12                                                                                               | 33   | 193                               | 532   | 1320                | 686   | e330    | 165   | 89                                | 111  | 21                  | 44   | 72   |
| 13                                                                                               | 31   | 219                               | 527   | 1040                | 563   | 295     | 306   | 83                                | 96   | 21                  | 42   | 47   |
| 14                                                                                               | 32   | 269                               | 364   | 947                 | 448   | 252     | 480   | 80                                | 120  | 21                  | 38   | 40   |
| 15                                                                                               | 33   | 221                               | 242   | 1100                | 362   | 219     | 1070  | 77                                | 80   | 21                  | 35   | 37   |
| 16                                                                                               | 33   | 155                               | 229   | 1220                | 306   | 194     | 1240  | 73                                | 81   | 22                  | 35   | 37   |
| 17                                                                                               | 32   | 123                               | 317   | 1070                | 276   | 180     | 1420  | 69                                | 101  | 30                  | 35   | 35   |
| 18                                                                                               | 31   | 105                               | 1090  | 759                 | 254   | 181     | 1430  | 65                                | 77   | 38                  | 33   | 33   |
| 19                                                                                               | 31   | 91                                | 2190  | 711                 | 239   | 322     | 1160  | 62                                | 62   | 37                  | 30   | 33   |
| 20                                                                                               | 31   | 81                                | 2610  | 614                 | 271   | 377     | 775   | 59                                | 55   | 29                  | 28   | 33   |
| 21                                                                                               | 30   | 76                                | 2840  | 650                 | 285   | 511     | 694   | 55                                | 49   | 26                  | 28   | 33   |
| 22                                                                                               | 30   | 74                                | 2870  | 756                 | 350   | 722     | 532   | 53                                | 45   | 24                  | 27   | 33   |
| 23                                                                                               | 29   | 73                                | 2610  | 746                 | 364   | 835     | 1230  | 50                                | 41   | 26                  | 27   | 33   |
| 24                                                                                               | 30   | 83                                | 2250  | 1060                | 320   | 632     | 1670  | 47                                | 39   | 25                  | 27   | 64   |
| 25                                                                                               | 29   | 79                                | 1810  | 1080                | 270   | 757     | 1960  | 43                                | 37   | 25                  | 28   | 74   |
| 26                                                                                               | 29   | 115                               | 1200  | 1390                | 237   | 970     | 2120  | 42                                | 37   | 27                  | 45   | 52   |
| 27                                                                                               | 33   | 149                               | 612   | 3200                | 213   | 1050    | 2090  | 42                                | 35   | 32                  | 37   | 42   |
| 28                                                                                               | 39   | 136                               | 358   | 3570                | 198   | 1420    | 1790  | 49                                | 32   | 58                  | 36   | 42   |
| 29                                                                                               | 38   | 173                               | 264   | 3320                | 191   | 1830    | 1320  | 140                               | 32   | 77                  | 97   | 39   |
| 30                                                                                               | 39   | 226                               | 225   | 3090                | ---   | 1890    | 697   | 203                               | 38   | 169                 | 107  | 43   |
| 31                                                                                               | 60   | ---                               | 205   | 3070                | ---   | 1760    | ---   | 426                               | ---  | 177                 | 136  | ---  |
| TOTAL                                                                                            | 1140 | 3892                              | 26968 | 40445               | 25023 | 18463   | 27589 | 3623                              | 6472 | 1183                | 1626 | 1462 |
| MEAN                                                                                             | 36.8 | 130                               | 870   | 1305                | 863   | 596     | 920   | 117                               | 216  | 38.2                | 52.5 | 48.7 |
| MAX                                                                                              | 60   | 269                               | 2870  | 3570                | 3050  | 1890    | 2120  | 426                               | 768  | 177                 | 154  | 91   |
| MIN                                                                                              | 29   | 63                                | 204   | 203                 | 191   | 161     | 165   | 42                                | 32   | 21                  | 27   | 33   |
| CFSM                                                                                             | .08  | .28                               | 1.85  | 2.78                | 1.84  | 1.27    | 1.96  | .25                               | .46  | .08                 | .11  | .10  |
| IN.                                                                                              | .09  | .31                               | 2.14  | 3.21                | 1.98  | 1.46    | 2.19  | .29                               | .51  | .09                 | .13  | .11  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1996, BY WATER YEAR (WY)

|      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 125  | 334  | 837  | 1289 | 1491 | 1465 | 1347 | 761  | 230  | 199  | 123  | 92.3 |
| MAX  | 1073 | 2132 | 5617 | 5142 | 3433 | 4278 | 6209 | 3690 | 1142 | 1461 | 719  | 1100 |
| (WY) | 1976 | 1980 | 1983 | 1974 | 1946 | 1980 | 1979 | 1983 | 1989 | 1989 | 1975 | 1979 |
| MIN  | 10.6 | 17.5 | 50.0 | 62.8 | 251  | 344  | 108  | 45.6 | 18.4 | 22.0 | 9.20 | 7.46 |
| (WY) | 1956 | 1954 | 1944 | 1956 | 1986 | 1966 | 1963 | 1963 | 1988 | 1952 | 1954 | 1954 |

| SUMMARY STATISTICS | FOR 1995 CALENDAR YEAR | FOR 1996 WATER YEAR | WATER YEARS 1944 - 1996 |
|--------------------|------------------------|---------------------|-------------------------|
|--------------------|------------------------|---------------------|-------------------------|

|                          |        |        |        |          |       |             |
|--------------------------|--------|--------|--------|----------|-------|-------------|
| ANNUAL TOTAL             | 193393 |        | 157886 |          |       |             |
| ANNUAL MEAN              | 530    |        | 431    |          | 687   |             |
| HIGHEST ANNUAL MEAN      |        |        |        |          | 1868  | 1983        |
| LOWEST ANNUAL MEAN       |        |        |        |          | 131   | 1963        |
| HIGHEST DAILY MEAN       | 9840   | Apr 25 | 3570   | Jan 28   | 40900 | Apr 15 1979 |
| LOWEST DAILY MEAN        | 18     | Sep 11 | 21     | Jul 10   | 5.3   | Aug 20 1954 |
| ANNUAL SEVEN-DAY MINIMUM | 18     | Sep 9  | 21     | Jul 9-15 | 6.3   | Sep 7 1954  |
| INSTANTANEOUS PEAK FLOW  |        |        | 3680   | Jan 27   | 46500 | Apr 14 1979 |
| INSTANTANEOUS PEAK STAGE |        |        | 19.29  | Jan 27   | 28.27 | Apr 14 1979 |
| INSTANTANEOUS LOW FLOW   |        |        | 21     | Jul 9-15 | 4.9   | Aug 20 1954 |
| ANNUAL RUNOFF (CFSM)     | 1.13   |        | .92    |          | 1.47  |             |
| ANNUAL RUNOFF (INCHES)   | 15.34  |        | 12.52  |          | 19.91 |             |
| 10 PERCENT EXCEEDS       | 1490   |        | 1320   |          | 1840  |             |
| 50 PERCENT EXCEEDS       | 153    |        | 144    |          | 178   |             |
| 90 PERCENT EXCEEDS       | 30     |        | 31     |          | 27    |             |

e Estimated

02484500 YOCKANOOKANY RIVER NEAR OPAHOMA, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY  | OCT  | NOV  | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN   | JUL  | AUG  | SEP  |
|------|------|------|-------|-------|-------|-------|-------|------|-------|------|------|------|
| 1    | ---  | 5.94 | 8.56  | 7.58  | 18.35 | 7.45  | 14.40 | 8.84 | 11.10 | 5.53 | 7.20 | 6.37 |
| 2    | ---  | 5.94 | 8.74  | 8.10  | 17.93 | 7.45  | 12.37 | 8.24 | 11.06 | 5.47 | 6.51 | 6.01 |
| 3    | 5.61 | 6.09 | 8.19  | 8.87  | 17.19 | 7.33  | 10.80 | 7.86 | 8.93  | 5.40 | 6.08 | 5.89 |
| 4    | 5.68 | 6.33 | 8.21  | 9.71  | 16.14 | 7.20  | 9.57  | 7.53 | 9.45  | 5.34 | 5.91 | 5.74 |
| 5    | 5.63 | 6.82 | 8.89  | 10.63 | 15.59 | 7.14  | 8.69  | 7.23 | 10.59 | 5.28 | 5.83 | 5.98 |
| 6    | 5.80 | 6.79 | 8.91  | 12.41 | 15.21 | 7.38  | 8.25  | 7.02 | 10.41 | 5.26 | 5.74 | 5.77 |
| 7    | 5.85 | 6.66 | 8.20  | 14.31 | 14.47 | 9.92  | 8.06  | 6.85 | 8.38  | 5.26 | 5.76 | 5.63 |
| 8    | 5.87 | 6.76 | 7.60  | 13.21 | 12.98 | 10.46 | 7.93  | 6.73 | 9.03  | 5.24 | 5.74 | 5.60 |
| 9    | 5.77 | 6.82 | 8.11  | 13.06 | 11.65 | 10.72 | 7.99  | 6.70 | 9.26  | 5.22 | 5.83 | 5.54 |
| 10   | 5.65 | 7.12 | 9.27  | 13.65 | 11.22 | 10.99 | 7.81  | 6.60 | 9.16  | 5.21 | 5.68 | 5.50 |
| 11   | 5.54 | 7.49 | 9.57  | 13.83 | 11.09 | 10.68 | 7.53  | 6.52 | 7.57  | 5.20 | 5.62 | 6.16 |
| 12   | 5.46 | 7.51 | 9.86  | 13.56 | 10.68 | 9.25  | 7.37  | 6.47 | 6.75  | 5.20 | 5.66 | 6.06 |
| 13   | 5.40 | 7.76 | 9.83  | 12.40 | 10.02 | 8.36  | 8.46  | 6.39 | 6.56  | 5.20 | 5.60 | 5.63 |
| 14   | 5.42 | 8.17 | 8.83  | 11.97 | 9.35  | 8.04  | 9.62  | 6.33 | 6.86  | 5.20 | 5.54 | 5.50 |
| 15   | 5.45 | 7.77 | 7.94  | 12.66 | 8.81  | 7.76  | 12.52 | 6.29 | 6.34  | 5.20 | 5.48 | 5.42 |
| 16   | 5.42 | 7.13 | 7.82  | 13.18 | 8.41  | 7.52  | 13.25 | 6.23 | 6.35  | 5.22 | 5.47 | 5.43 |
| 17   | 5.40 | 6.77 | 8.51  | 12.52 | 8.19  | 7.40  | 13.99 | 6.16 | 6.63  | 5.40 | 5.45 | 5.39 |
| 18   | 5.38 | 6.54 | 12.43 | 11.05 | 8.01  | 7.41  | 13.99 | 6.11 | 6.29  | 5.58 | 5.40 | 5.35 |
| 19   | 5.36 | 6.36 | 16.50 | 10.80 | 7.88  | 8.57  | 12.89 | 6.06 | 6.06  | 5.57 | 5.34 | 5.34 |
| 20   | 5.36 | 6.22 | 17.50 | 10.31 | 8.15  | 8.95  | 11.13 | 6.00 | 5.93  | 5.40 | 5.30 | 5.34 |
| 21   | 5.32 | 6.14 | 17.97 | 10.49 | 8.26  | 9.75  | 10.73 | 5.94 | 5.82  | 5.31 | 5.28 | 5.34 |
| 22   | 5.31 | 6.10 | 18.02 | 11.03 | 8.72  | 10.86 | 9.91  | 5.89 | 5.74  | 5.27 | 5.27 | 5.33 |
| 23   | 5.30 | 6.07 | 17.50 | 10.98 | 8.82  | 11.43 | 13.15 | 5.84 | 5.68  | 5.30 | 5.26 | 5.34 |
| 24   | 5.30 | 6.23 | 16.69 | 12.44 | 8.51  | 10.40 | 14.89 | 5.79 | 5.62  | 5.28 | 5.26 | 5.92 |
| 25   | 5.27 | 6.17 | 15.37 | 12.58 | 8.13  | 11.01 | 15.87 | 5.71 | 5.59  | 5.28 | 5.26 | 6.09 |
| 26   | 5.27 | 6.65 | 13.04 | 13.66 | 7.86  | 12.07 | 16.35 | 5.70 | 5.59  | 5.31 | 5.62 | 5.74 |
| 27   | 5.36 | 7.05 | 10.27 | 18.53 | 7.64  | 12.44 | 16.25 | 5.69 | 5.54  | 5.44 | 5.47 | 5.54 |
| 28   | 5.50 | 6.91 | 8.79  | 19.15 | 7.51  | 13.94 | 15.33 | 5.82 | 5.49  | 5.94 | 5.45 | 5.55 |
| 29   | 5.49 | 7.31 | 8.12  | 18.79 | 7.43  | 15.45 | 13.56 | 7.09 | 5.49  | 6.26 | 6.45 | 5.49 |
| 30   | 5.49 | 7.80 | 7.78  | 18.42 | ---   | 15.66 | 10.73 | 7.71 | 5.60  | 7.37 | 6.57 | 5.56 |
| 31   | 5.88 | ---  | 7.60  | 18.39 | ---   | 15.23 | ---   | 9.29 | ---   | 7.45 | 6.93 | ---  |
| MEAN | ---  | 6.78 | 10.79 | 12.85 | 10.83 | 9.94  | 11.45 | 6.67 | 7.30  | 5.50 | 5.74 | 5.65 |
| MAX  | ---  | 8.17 | 18.02 | 19.15 | 18.35 | 15.66 | 16.35 | 9.29 | 11.10 | 7.45 | 7.20 | 6.37 |
| MIN  | ---  | 5.94 | 7.60  | 7.58  | 7.43  | 7.14  | 7.37  | 5.69 | 5.49  | 5.20 | 5.26 | 5.33 |

## 02485700 HANGING MOSS CREEK AT JACKSON, MS

LOCATION.--Lat 32°21'57", long 90°08'57", in 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 discharge: Jan. 27 - Feb. 17, due to backwater from Pearl River. Records good except for estimated daily discharge, which is 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.

| 1 DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996<br>DAILY MEAN VALUES |        |        |         |        |       |        |        |       |        |        |        |       |
|----------------------------------------------------------------------------------------------------|--------|--------|---------|--------|-------|--------|--------|-------|--------|--------|--------|-------|
| DAY                                                                                                | OCT    | NOV    | DEC     | JAN    | FEB   | MAR    | APR    | MAY   | JUN    | JUL    | AUG    | SEP   |
| 1                                                                                                  | 3.2    | 3.0    | .26     | 14     | e35   | 2.9    | 36     | .70   | 4.4    | .37    | 7.3    | .56   |
| 2                                                                                                  | 6.5    | 7.3    | .53     | 11     | e13   | 2.7    | 15     | .41   | 1.5    | .11    | 9.3    | .37   |
| 3                                                                                                  | 196    | 25     | .64     | 4.1    | e8.0  | 2.5    | 9.7    | .99   | .74    | .04    | 15     | .25   |
| 4                                                                                                  | 7.7    | 2.1    | .75     | 2.0    | e7.0  | 2.1    | 5.5    | 1.0   | .65    | .04    | 12     | .19   |
| 5                                                                                                  | 2.4    | .50    | 1.1     | 4.1    | e6.2  | 11     | 3.3    | 1.2   | .66    | .06    | 1.7    | 4.7   |
| 6                                                                                                  | .62    | 1.6    | 1.6     | 186    | e5.6  | 147    | 19     | 1.3   | .63    | .06    | 4.2    | .40   |
| 7                                                                                                  | .34    | 41     | 1.2     | 25     | e5.2  | 226    | 7.6    | 1.3   | .64    | .08    | 2.5    | .24   |
| 8                                                                                                  | .24    | 2.6    | 22      | 5.9    | e4.9  | 20     | 4.2    | 1.4   | 1.0    | 1.5    | 8.6    | .19   |
| 9                                                                                                  | .21    | .84    | 35      | 4.5    | e4.5  | 7.3    | 3.4    | 2.2   | 1.0    | 106    | 5.2    | .20   |
| 10                                                                                                 | .23    | 102    | 1.3     | 3.5    | e4.3  | 4.7    | 1.7    | 1.4   | .89    | 40     | .57    | .22   |
| 11                                                                                                 | .24    | 112    | .68     | 23     | e4.1  | 4.0    | 1.1    | 11    | .96    | .56    | .32    | .19   |
| 12                                                                                                 | .23    | 4.0    | .33     | 20     | e3.9  | 3.4    | .84    | 1.6   | 1.0    | .10    | 6.1    | .21   |
| 13                                                                                                 | .27    | 3.5    | .17     | 6.6    | e3.7  | 2.8    | 141    | 1.1   | 81     | .06    | 1.6    | .17   |
| 14                                                                                                 | 90     | 2.9    | 1.6     | 4.8    | e3.6  | 1.6    | 234    | .98   | 82     | 30     | .39    | .14   |
| 15                                                                                                 | 2.4    | .70    | 1.7     | 3.9    | e3.5  | 1.7    | 96     | .87   | 2.4    | 13     | .26    | 2.2   |
| 16                                                                                                 | .54    | .25    | 27      | 3.7    | e3.4  | 1.5    | 18     | .79   | .25    | 1.2    | .24    | .88   |
| 17                                                                                                 | .38    | .30    | 156     | 3.5    | e3.3  | 1.0    | 8.1    | .72   | .07    | 18     | .23    | .43   |
| 18                                                                                                 | .27    | .73    | 671     | 47     | 3.2   | 64     | 4.6    | .67   | .59    | 3.0    | 32     | .35   |
| 19                                                                                                 | .30    | 1.1    | 53      | 20     | 22    | 38     | 3.4    | .64   | .50    | .26    | 12     | .23   |
| 20                                                                                                 | .30    | 1.2    | 237     | 7.6    | 13    | 9.4    | 2.7    | .61   | .18    | .16    | .78    | .19   |
| 21                                                                                                 | .27    | .98    | 96      | 8.4    | 7.1   | 5.0    | 2.7    | .57   | .72    | .08    | .31    | .38   |
| 22                                                                                                 | .36    | 1.0    | 20      | 5.9    | 6.1   | 3.2    | 57     | .56   | 3.5    | .06    | .20    | .26   |
| 23                                                                                                 | .36    | 2.8    | .44     | 19     | 5.2   | 2.2    | 234    | .54   | .09    | 1.0    | .16    | .21   |
| 24                                                                                                 | .31    | 2.0    | .28     | 215    | 4.1   | 5.0    | 12     | .53   | .39    | .14    | .14    | .17   |
| 25                                                                                                 | .26    | 1.3    | .22     | 27     | 3.2   | 339    | 4.5    | .61   | .91    | .12    | 3.3    | .17   |
| 26                                                                                                 | .27    | 1.1    | .17     | 1250   | 3.0   | 49     | 11     | .70   | .54    | 6.0    | 1.9    | .11   |
| 27                                                                                                 | 12     | 1.2    | .14     | e110   | 3.0   | 41     | 3.5    | .53   | .08    | 85     | 13     | 6.9   |
| 28                                                                                                 | 3.1    | 32     | .14     | e10    | 5.0   | 20     | 1.7    | 2.2   | .03    | 93     | 8.7    | 57    |
| 29                                                                                                 | .15    | 2.9    | .11     | e5.6   | 3.7   | 12     | 8.2    | .76   | .03    | 11     | 47     | .44   |
| 30                                                                                                 | .12    | .58    | .11     | e150   | ---   | 68     | 2.1    | .60   | .04    | 84     | 15     | .18   |
| 31                                                                                                 | .81    | ---    | .35     | e25    | ---   | 464    | ---    | .53   | ---    | 42     | 1.9    | ---   |
| TOTAL                                                                                              | 330.38 | 358.48 | 1330.82 | 2226.1 | 197.8 | 1562.0 | 951.84 | 39.01 | 187.39 | 537.00 | 211.90 | 96.94 |
| MEAN                                                                                               | 10.7   | 11.9   | 42.9    | 71.8   | 6.82  | 50.4   | 31.7   | 1.26  | 6.25   | 17.3   | 6.84   | 3.23  |
| MAX                                                                                                | 196    | 112    | 671     | 1250   | 35    | 464    | 234    | 11    | 82     | 106    | 47     | 57    |
| MIN                                                                                                | .12    | .25    | .11     | 2.0    | 3.0   | 1.0    | .84    | .41   | .03    | .04    | .14    | .11   |
| CFSM                                                                                               | .63    | .71    | 2.56    | 4.27   | .41   | 3.00   | 1.89   | .07   | .37    | 1.03   | .41    | .19   |
| IN.                                                                                                | .73    | .79    | 2.95    | 4.93   | .44   | 3.46   | 2.11   | .09   | .41    | 1.19   | .47    | .21   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 1996, BY WATER YEAR (WY)

|      | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 11.5 | 25.6 | 36.2 | 42.8 | 46.7 | 38.8 | 43.4 | 16.5 | 10.0 | 12.0 | 9.10 | 4.27 |      |      |      |      |
| MAX  | 57.3 | 95.6 | 201  | 146  | 142  | 71.4 | 159  | 49.5 | 33.4 | 35.9 | 31.1 | 12.2 |      |      |      |      |
| (WY) | 1986 | 1990 | 1983 | 1994 | 1994 | 1983 | 1983 | 1990 | 1989 | 1989 | 1982 | 1989 |      |      |      |      |
| MIN  | .46  | 3.29 | 1.59 | 1.47 | 6.09 | 14.6 | 1.13 | 1.17 | 1.55 | 1.48 | .98  | .59  |      |      |      |      |
| (WY) | 1990 | 1981 | 1981 | 1981 | 1995 | 1992 | 1992 | 1982 | 1995 | 1987 | 1991 | 1993 |      |      |      |      |

| SUMMARY STATISTICS       |  |  | FOR 1995 CALENDAR YEAR |        |  | FOR 1996 WATER YEAR |        |  | WATER YEARS 1981 - 1996 |        |      |
|--------------------------|--|--|------------------------|--------|--|---------------------|--------|--|-------------------------|--------|------|
| ANNUAL TOTAL             |  |  | 8992.90                |        |  | 8029.66             |        |  |                         |        |      |
| ANNUAL MEAN              |  |  | 24.6                   |        |  | 21.9                |        |  | 24.6                    |        |      |
| HIGHEST ANNUAL MEAN      |  |  |                        |        |  |                     |        |  | 57.5                    |        | 1983 |
| LOWEST ANNUAL MEAN       |  |  |                        |        |  |                     |        |  | 11.1                    |        | 1981 |
| HIGHEST DAILY MEAN       |  |  | 1500                   | Apr 23 |  | 1250                | Jan 26 |  | 1780                    | Dec 4  | 1982 |
| LOWEST DAILY MEAN        |  |  | .11                    | Dec 29 |  | .03                 | Jun 28 |  | .01                     | Sep 19 | 1988 |
| ANNUAL SEVEN-DAY MINIMUM |  |  | .17                    | Dec 24 |  | .09                 | Jun 28 |  | .09                     | Jun 28 | 1996 |
| INSTANTANEOUS PEAK FLOW  |  |  |                        |        |  | 3880                | Jan 26 |  | 5320                    | Apr 29 | 1953 |
| INSTANTANEOUS PEAK STAGE |  |  |                        |        |  | 18.20               | Jan 26 |  | 27.37                   | Apr 29 | 1953 |
| INSTANTANEOUS LOW FLOW   |  |  |                        |        |  | .02                 | Sep 27 |  | .01                     | Nov 16 | 1987 |
| ANNUAL RUNOFF (CFSM)     |  |  | 1.47                   |        |  | 1.31                |        |  | 1.47                    |        |      |
| ANNUAL RUNOFF (INCHES)   |  |  | 19.91                  |        |  | 17.78               |        |  | 19.91                   |        |      |
| 10 PERCENT EXCEEDS       |  |  | 37                     |        |  | 41                  |        |  | 38                      |        |      |
| 50 PERCENT EXCEEDS       |  |  | 1.3                    |        |  | 2.1                 |        |  | 2.4                     |        |      |
| 90 PERCENT EXCEEDS       |  |  | .20                    |        |  | .19                 |        |  | .35                     |        |      |

e Estimated

02485700 HANGING MOSS CREEK AT JACKSON, MS

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY  | OCT  | NOV  | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1    | 8.69 | 8.61 | 8.70  | 8.99  | 12.51 | 8.76  | 9.17  | 8.66 | 8.85 | 8.43 | 8.86 | 8.41 |
| 2    | 8.74 | 8.84 | 8.79  | 9.07  | 13.27 | 8.74  | 8.99  | 8.60 | 8.91 | 8.44 | 8.90 | 8.35 |
| 3    | 9.85 | 9.13 | 8.83  | 8.92  | 12.70 | 8.74  | 8.91  | 8.72 | 8.82 | 8.36 | 8.88 | 8.31 |
| 4    | 8.83 | 8.74 | 8.86  | 8.81  | 11.44 | 8.72  | 8.80  | 8.74 | 8.80 | 8.37 | 8.92 | 8.61 |
| 5    | 8.64 | 8.55 | 8.91  | 8.86  | 10.58 | 8.83  | 8.71  | 8.76 | 8.80 | 8.39 | 8.60 | 8.65 |
| 6    | 8.46 | 8.71 | 8.94  | 9.95  | 9.04  | 9.60  | 9.02  | 8.79 | 8.79 | 8.39 | 8.64 | 8.37 |
| 7    | 8.39 | 9.21 | 8.90  | 9.18  | 8.99  | 10.05 | 8.86  | 8.80 | 8.79 | 8.42 | 8.63 | 8.30 |
| 8    | 8.36 | 8.80 | 9.02  | 8.95  | 8.95  | 9.07  | 8.76  | 8.81 | 8.84 | 8.52 | 8.65 | 8.28 |
| 9    | 8.34 | 8.67 | 9.30  | 8.90  | 8.89  | 8.90  | 8.72  | 8.86 | 8.85 | 9.25 | 8.72 | 8.29 |
| 10   | 8.35 | 9.34 | 8.89  | 8.85  | 8.86  | 8.83  | 8.62  | 8.83 | 8.82 | 9.18 | 8.43 | 8.29 |
| 11   | 8.36 | 9.62 | 8.80  | 9.06  | 8.85  | 8.81  | 8.55  | 9.03 | 8.83 | 8.60 | 8.35 | 8.28 |
| 12   | 8.36 | 8.90 | 8.69  | 9.11  | 8.80  | 8.78  | 8.53  | 8.87 | 8.83 | 8.41 | 8.56 | 8.29 |
| 13   | 8.36 | 8.81 | 8.62  | 8.94  | 8.79  | 8.75  | 9.73  | 8.83 | 9.33 | 8.35 | 8.53 | 8.27 |
| 14   | 9.40 | 8.87 | 8.89  | 8.88  | 8.78  | 8.65  | 9.91  | 8.82 | 9.52 | 8.80 | 8.35 | 8.24 |
| 15   | 8.64 | 8.69 | 8.91  | 8.84  | 8.78  | 8.66  | 9.54  | 8.81 | 8.90 | 8.99 | 8.31 | 8.40 |
| 16   | 8.47 | 8.57 | 9.24  | 8.83  | 8.76  | 8.64  | 9.04  | 8.80 | 8.61 | 8.66 | 8.29 | 8.46 |
| 17   | 8.43 | 8.60 | 9.59  | 8.82  | 8.76  | 8.59  | 8.91  | 8.80 | 8.48 | 8.72 | 8.29 | 8.38 |
| 18   | 8.39 | 8.72 | 11.54 | 9.24  | 8.74  | 9.34  | 8.83  | 8.80 | 8.53 | 8.76 | 8.63 | 8.35 |
| 19   | 8.40 | 8.78 | 9.39  | 9.08  | 8.99  | 9.20  | 8.79  | 8.80 | 8.65 | 8.48 | 8.80 | 8.30 |
| 20   | 8.41 | 8.81 | 10.19 | 8.92  | 8.97  | 8.92  | 8.75  | 8.80 | 8.54 | 8.41 | 8.44 | 8.28 |
| 21   | 8.40 | 8.79 | 9.66  | 8.93  | 8.88  | 8.82  | 8.75  | 8.80 | 8.72 | 8.32 | 8.33 | 8.35 |
| 22   | 8.43 | 8.80 | 9.08  | 8.86  | 8.86  | 8.75  | 8.92  | 8.81 | 8.61 | 8.29 | 8.28 | 8.32 |
| 23   | 8.43 | 8.91 | 8.66  | 8.88  | 8.83  | 8.69  | 10.07 | 8.81 | 8.46 | 8.55 | 8.25 | 8.29 |
| 24   | 8.42 | 8.91 | 8.61  | 9.97  | 8.80  | 8.70  | 9.03  | 8.82 | 8.45 | 8.37 | 8.23 | 8.28 |
| 25   | 8.40 | 8.86 | 8.57  | 9.06  | 8.76  | 10.39 | 8.88  | 8.83 | 8.59 | 8.34 | 8.37 | 8.27 |
| 26   | 8.41 | 8.84 | 8.54  | 12.65 | 8.75  | 9.27  | 9.01  | 8.84 | 8.65 | 8.49 | 8.53 | 8.21 |
| 27   | 8.71 | 8.87 | 8.51  | 10.38 | 8.75  | 9.22  | 8.85  | 8.80 | 8.45 | 9.31 | 8.48 | 8.49 |
| 28   | 8.68 | 9.25 | 8.50  | 11.83 | 8.84  | 9.05  | 8.75  | 8.88 | 8.36 | 9.53 | 8.72 | 9.12 |
| 29   | 8.34 | 8.97 | 8.47  | 12.69 | 8.79  | 8.95  | 8.93  | 8.84 | 8.35 | 8.94 | 9.12 | 8.37 |
| 30   | 8.33 | 8.79 | 8.46  | 12.94 | ---   | 9.40  | 8.80  | 8.81 | 8.36 | 9.23 | 8.88 | 8.28 |
| 31   | 8.52 | ---  | 8.59  | 12.85 | ---   | 10.77 | ---   | 8.79 | ---  | 9.18 | 8.56 | ---  |
| MEAN | 8.55 | 8.87 | 8.99  | 9.65  | 9.40  | 9.05  | 8.97  | 8.81 | 8.72 | 8.66 | 8.57 | 8.37 |
| MAX  | 9.85 | 9.62 | 11.54 | 12.94 | 13.27 | 10.77 | 10.07 | 9.03 | 9.52 | 9.53 | 9.12 | 9.12 |
| MIN  | 8.33 | 8.55 | 8.46  | 8.81  | 8.74  | 8.59  | 8.53  | 8.60 | 8.35 | 8.29 | 8.23 | 8.21 |

## 02486000 PEARL RIVER AT JACKSON, MS

LOCATION.--Lat 32°16'54", long 90°10'43", in NE1/4 NE1/4 sec.15, 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 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC    | JAN    | FEB    | MAR    | APR    | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 1     | 311   | 381   | 3900   | 3580   | 31400  | 1920   | 14000  | 2970  | 409   | 321   | 425   | 737   |
| 2     | 307   | 380   | 2440   | 3550   | 33100  | 1480   | 12300  | 1470  | 530   | 326   | 583   | 755   |
| 3     | 2980  | 557   | 1640   | 3330   | 32800  | 1050   | 10700  | 854   | 379   | 316   | 417   | 753   |
| 4     | 1520  | 393   | 1890   | 4390   | 29300  | 1280   | 9110   | 931   | 362   | 317   | 485   | 710   |
| 5     | 3680  | 348   | 3710   | 4550   | 26800  | 1320   | 7360   | 1980  | 359   | 318   | 496   | 500   |
| 6     | 2860  | 394   | 5610   | 5780   | 23200  | 3450   | 6160   | 1710  | 351   | 311   | 529   | 437   |
| 7     | 1900  | 2080  | 4720   | 6980   | 19400  | 10300  | 5010   | 1370  | 352   | 316   | 484   | 425   |
| 8     | 1100  | 2890  | 3570   | 6850   | 16200  | 13900  | 3760   | 1050  | 357   | 350   | 661   | 426   |
| 9     | 764   | 2090  | 4490   | 6950   | 14000  | 13400  | 2380   | 567   | 358   | 855   | 466   | 422   |
| 10    | 391   | 2390  | 5420   | 6440   | 12200  | 12500  | 1120   | 502   | 351   | 1600  | 385   | 415   |
| 11    | 466   | 5800  | 6430   | 5990   | 10500  | 11800  | 501    | 596   | 345   | 383   | 380   | 414   |
| 12    | 451   | 5770  | 6280   | 5750   | 8740   | 11200  | 456    | 499   | 338   | 330   | 478   | 413   |
| 13    | 349   | 6350  | 5470   | 6140   | 7440   | 9900   | 2980   | 457   | 559   | 314   | 413   | 411   |
| 14    | 2630  | 6420  | 4380   | 6580   | 6530   | 8090   | 5070   | 444   | 1010  | 658   | 375   | 415   |
| 15    | 3870  | 5140  | 3550   | 6610   | 5370   | 6440   | 9410   | 434   | 510   | 600   | 368   | 428   |
| 16    | 1060  | 3370  | 3490   | 6000   | 4120   | 5440   | 11700  | 422   | 376   | 395   | 372   | 437   |
| 17    | 396   | 2960  | 4880   | 5620   | 2900   | 5330   | 13000  | 418   | 355   | 347   | 375   | 422   |
| 18    | 359   | 2770  | 11100  | 5470   | 1880   | 5850   | 12200  | 410   | 355   | 409   | 408   | 409   |
| 19    | 350   | 2700  | 17700  | 5470   | 1320   | 6830   | 10700  | 402   | 549   | 321   | 570   | 411   |
| 20    | 338   | 2900  | 23200  | 5510   | 1160   | 6330   | 8820   | 396   | 349   | 315   | 397   | 415   |
| 21    | 338   | 3440  | 24100  | 5860   | 1680   | 5280   | 7050   | 395   | 351   | 309   | 377   | 434   |
| 22    | 334   | 2380  | 22900  | 5270   | 2070   | 5000   | 5940   | 390   | 357   | 312   | 368   | 414   |
| 23    | 330   | 1830  | 20700  | 4390   | 2330   | 4180   | 6450   | 394   | 389   | 328   | 363   | 409   |
| 24    | 326   | 1870  | 19200  | 6850   | 1970   | 3460   | 3930   | 387   | 344   | 310   | 368   | 405   |
| 25    | 325   | 2210  | 16900  | 7470   | 1930   | 6810   | 4410   | 382   | 357   | 324   | 382   | 403   |
| 26    | 329   | 2170  | 14500  | 11200  | 1650   | 9500   | 5450   | 382   | 361   | 373   | 427   | 397   |
| 27    | 388   | 1720  | 12900  | 22200  | 1880   | 12900  | 7280   | 373   | 341   | 614   | 408   | 504   |
| 28    | 500   | 2210  | 11000  | 27400  | 2580   | 13500  | 6710   | 387   | 330   | 1410  | 597   | 1000  |
| 29    | 349   | 3680  | 8620   | 30600  | 2550   | 12600  | 5720   | 389   | 329   | 523   | 871   | 471   |
| 30    | 337   | 4900  | 6010   | 32500  | ---    | 12600  | 4760   | 373   | 327   | 542   | 819   | 413   |
| 31    | 333   | ---   | 4100   | 32800  | ---    | 14300  | ---    | 369   | ---   | 749   | 510   | ---   |
| TOTAL | 29971 | 82493 | 284800 | 298080 | 307000 | 237940 | 204437 | 22103 | 12040 | 14896 | 14557 | 14605 |
| MEAN  | 967   | 2750  | 9187   | 9615   | 10590  | 7675   | 6815   | 713   | 401   | 481   | 470   | 487   |
| MAX   | 3870  | 6420  | 24100  | 32800  | 33100  | 14300  | 14000  | 2970  | 1010  | 1600  | 871   | 1000  |
| MIN   | 307   | 348   | 1640   | 3330   | 1160   | 1050   | 456    | 369   | 327   | 309   | 363   | 397   |
| CFSM  | .30   | .87   | 2.90   | 3.03   | 3.34   | 2.42   | 2.15   | .22   | .13   | .15   | .15   | .15   |
| IN.   | .35   | .97   | 3.34   | 3.50   | 3.60   | 2.79   | 2.40   | .26   | .14   | .17   | .17   | .17   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1996, BY WATER YEAR (WY)

|      | MEAN | 1028 | 2084  | 6039  | 8598  | 8900  | 9525  | 9709  | 4960 | 1403 | 1085 | 937  | 759 |
|------|------|------|-------|-------|-------|-------|-------|-------|------|------|------|------|-----|
| MAX  | 8174 | 6663 | 26640 | 28310 | 24940 | 23560 | 34330 | 22880 | 6041 | 6454 | 7996 | 6790 |     |
| (WY) | 1976 | 1980 | 1983  | 1974  | 1983  | 1980  | 1979  | 1983  | 1989 | 1989 | 1975 | 1979 |     |
| MIN  | 94.7 | 85.3 | 271   | 653   | 1532  | 1728  | 448   | 280   | 133  | 180  | 197  | 138  |     |
| (WY) | 1964 | 1964 | 1963  | 1986  | 1986  | 1967  | 1986  | 1992  | 1963 | 1984 | 1969 | 1963 |     |

| SUMMARY STATISTICS       | FOR 1995 CALENDAR YEAR | FOR 1996 WATER YEAR | WATER YEARS 1962 - 1996 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 1465308                | 1522922             |                         |
| ANNUAL MEAN              | 4015                   | 4161                | 4565                    |
| HIGHEST ANNUAL MEAN      |                        |                     | 12000                   |
| LOWEST ANNUAL MEAN       |                        |                     | 942                     |
| HIGHEST DAILY MEAN       | 41200                  | Apr 24              | 126000                  |
| LOWEST DAILY MEAN        | 265                    | Jul 26              | 45                      |
| ANNUAL SEVEN-DAY MINIMUM | 295                    | Jul 22              | 63                      |
| INSTANTANEOUS PEAK FLOW  |                        |                     | 34100                   |
| INSTANTANEOUS PEAK STAGE |                        |                     | 33.01                   |
| ANNUAL RUNOFF (CFSM)     | 1.27                   | 1.31                | 43.28                   |
| ANNUAL RUNOFF (INCHES)   | 17.19                  | 17.87               | 1.44                    |
| 10 PERCENT EXCEEDS       | 11400                  | 11900               | 13200                   |
| 50 PERCENT EXCEEDS       | 1710                   | 1320                | 1290                    |
| 90 PERCENT EXCEEDS       | 307                    | 349                 | 256                     |



## 02486000 PEARL RIVER AT JACKSON, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY  | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN  | JUL  | AUG  | SEP  |
|------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| 1    | 4.17  | 4.43  | 12.36 | 11.74 | 32.38 | 8.20  | 25.56 | 10.47 | 4.60 | 4.24 | 4.44 | 5.25 |
| 2    | 4.15  | 4.42  | 9.38  | 11.67 | 32.78 | 7.10  | 24.34 | 7.30  | 5.02 | 4.25 | 4.97 | 5.30 |
| 3    | 10.43 | 5.04  | 7.52  | 11.24 | 32.72 | 5.99  | 23.10 | 6.02  | 4.50 | 4.22 | 4.40 | 5.29 |
| 4    | 7.37  | 4.47  | 8.08  | 13.31 | 31.84 | 6.62  | 21.47 | 6.14  | 4.43 | 4.22 | 4.63 | 5.15 |
| 5    | 11.94 | 4.31  | 11.81 | 13.59 | 31.15 | 6.71  | 19.15 | 8.36  | 4.42 | 4.22 | 4.64 | 4.46 |
| 6    | 10.27 | 4.45  | 15.24 | 15.82 | 29.91 | 11.35 | 17.17 | 7.78  | 4.39 | 4.20 | 4.75 | 4.24 |
| 7    | 8.18  | 8.54  | 13.53 | 17.96 | 28.37 | 22.19 | 15.24 | 7.11  | 4.39 | 4.22 | 4.60 | 4.20 |
| 8    | 6.51  | 10.34 | 11.22 | 17.74 | 26.79 | 25.34 | 13.02 | 6.44  | 4.41 | 4.33 | 5.05 | 4.20 |
| 9    | 5.67  | 8.59  | 12.86 | 17.90 | 25.44 | 25.02 | 10.27 | 5.15  | 4.41 | 5.60 | 4.53 | 4.19 |
| 10   | 4.47  | 9.15  | 14.42 | 17.00 | 24.10 | 24.28 | 7.33  | 4.93  | 4.39 | 7.51 | 4.24 | 4.16 |
| 11   | 4.72  | 15.83 | 16.12 | 16.18 | 22.51 | 23.77 | 5.52  | 5.24  | 4.36 | 4.45 | 4.22 | 4.16 |
| 12   | 4.67  | 15.77 | 15.82 | 15.74 | 20.54 | 23.22 | 5.35  | 4.92  | 4.33 | 4.26 | 4.54 | 4.15 |
| 13   | 4.31  | 16.82 | 14.46 | 16.45 | 18.72 | 21.91 | 11.39 | 4.78  | 4.99 | 4.20 | 4.32 | 4.15 |
| 14   | 9.61  | 16.91 | 12.57 | 17.25 | 17.16 | 19.67 | 15.25 | 4.73  | 6.28 | 5.15 | 4.18 | 4.16 |
| 15   | 12.28 | 14.48 | 11.10 | 17.29 | 15.07 | 16.99 | 21.82 | 4.70  | 4.93 | 5.17 | 4.14 | 4.21 |
| 16   | 6.31  | 10.99 | 11.09 | 16.19 | 12.78 | 15.20 | 23.85 | 4.66  | 4.47 | 4.49 | 4.15 | 4.24 |
| 17   | 4.48  | 10.02 | 13.79 | 15.52 | 10.35 | 15.00 | 24.71 | 4.64  | 4.39 | 4.31 | 4.15 | 4.19 |
| 18   | 4.35  | 9.47  | 22.48 | 15.25 | 8.08  | 15.92 | 24.05 | 4.61  | 4.38 | 4.54 | 4.26 | 4.14 |
| 19   | 4.32  | 9.16  | 27.43 | 15.25 | 6.71  | 17.69 | 22.75 | 4.59  | 5.05 | 4.21 | 4.80 | 4.15 |
| 20   | 4.27  | 9.42  | 29.84 | 15.32 | 6.30  | 16.79 | 20.64 | 4.56  | 4.36 | 4.17 | 4.22 | 4.16 |
| 21   | 4.27  | 10.46 | 30.25 | 15.94 | 7.61  | 14.92 | 18.05 | 4.56  | 4.37 | 4.14 | 4.14 | 4.23 |
| 22   | 4.26  | 8.38  | 29.80 | 14.89 | 8.55  | 14.41 | 16.08 | 4.54  | 4.39 | 4.15 | 4.09 | 4.16 |
| 23   | 4.24  | 7.21  | 28.97 | 13.30 | 9.13  | 12.89 | 17.01 | 4.56  | 4.51 | 4.20 | 4.07 | 4.14 |
| 24   | 4.23  | 7.43  | 28.31 | 17.72 | 8.32  | 11.50 | 12.42 | 4.53  | 4.34 | 4.12 | 4.08 | 4.13 |
| 25   | 4.22  | 8.32  | 27.18 | 18.78 | 8.22  | 17.53 | 13.34 | 4.51  | 4.38 | 4.17 | 4.12 | 4.12 |
| 26   | 4.23  | 8.34  | 25.80 | 22.49 | 7.56  | 21.41 | 15.22 | 4.51  | 4.40 | 4.33 | 4.28 | 4.10 |
| 27   | 4.44  | 7.38  | 24.62 | 29.51 | 8.08  | 24.62 | 18.47 | 4.48  | 4.32 | 5.02 | 4.20 | 4.46 |
| 28   | 4.84  | 8.58  | 23.03 | 31.30 | 9.69  | 25.10 | 17.47 | 4.53  | 4.28 | 7.11 | 4.83 | 5.91 |
| 29   | 4.31  | 11.83 | 20.35 | 32.17 | 9.60  | 24.37 | 15.70 | 4.54  | 4.28 | 4.79 | 5.57 | 4.36 |
| 30   | 4.27  | 14.21 | 16.22 | 32.64 | ---   | 24.40 | 13.96 | 4.48  | 4.27 | 4.77 | 5.48 | 4.16 |
| 31   | 4.25  | ---   | 12.73 | 32.71 | ---   | 25.66 | ---   | 4.47  | ---  | 5.44 | 4.53 | ---  |
| MEAN | 5.81  | 9.49  | 18.01 | 18.38 | 17.60 | 17.61 | 16.99 | 5.38  | 4.53 | 4.65 | 4.47 | 4.40 |
| MAX  | 12.28 | 16.91 | 30.25 | 32.71 | 32.78 | 25.66 | 25.56 | 10.47 | 6.28 | 7.51 | 5.57 | 5.91 |
| MIN  | 4.15  | 4.31  | 7.52  | 11.24 | 6.30  | 5.99  | 5.35  | 4.47  | 4.27 | 4.12 | 4.07 | 4.10 |



## 02488000 PEARL RIVER AT ROCKPORT, MS

LOCATION.--Lat 31°47'25", long 90°08'35", in SW1/4 sec.31, T.10 N., R.11 E., Washington Meridian, Copiah County, Hydrologic Unit 03180003, on downstream side of bridge 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 (ft <sup>3</sup> /s) | Gage Height (ft) | Date    | Time | Discharge (ft <sup>3</sup> /s) | Gage Height (ft) |
|---------|------|--------------------------------|------------------|---------|------|--------------------------------|------------------|
| Dec. 20 | 0015 | 27,900                         | 25.53            | Mar. 28 | 1345 | 19,300                         | 21.03            |
| Feb. 4  | 1400 | *40,900                        | *30.10           | Apr. 16 | 1530 | 21,800                         | 22.37            |
| Mar. 10 | 0145 | 24,400                         | 23.75            |         |      |                                |                  |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC    | JAN    | FEB    | MAR    | APR    | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 1     | 574   | 583   | 4870   | 6220   | 30400  | 3720   | 19200  | 7530  | 838   | 722   | 1340  | 1790  |
| 2     | 568   | 599   | 4830   | 8200   | 34900  | 3100   | 19300  | 5740  | 1540  | 699   | 1590  | 1340  |
| 3     | 783   | 690   | 3590   | 9480   | 39600  | 2640   | 18500  | 3790  | 2160  | 680   | 1660  | 1280  |
| 4     | 4020  | 1200  | 2550   | 7900   | 40700  | 1930   | 16300  | 2490  | 1640  | 662   | 1280  | 1210  |
| 5     | 3730  | 1110  | 2070   | 7180   | 39400  | 1830   | 14000  | 2090  | 1100  | 634   | 987   | 1130  |
| 6     | 4210  | 873   | 3130   | 6710   | 36700  | 2730   | 12100  | 2440  | 874   | 620   | 1040  | 1010  |
| 7     | 3940  | 802   | 5970   | 8130   | 32900  | 16900  | 10400  | 2970  | 806   | 622   | 1260  | 818   |
| 8     | 2950  | 2150  | 5980   | 9440   | 29600  | 22800  | 8470   | 2660  | 833   | 620   | 1480  | 712   |
| 9     | 2080  | 3630  | 5630   | 9310   | 26300  | 24000  | 6960   | 2330  | 846   | 650   | 1430  | 674   |
| 10    | 1490  | 3060  | 7090   | 9020   | 22700  | 24200  | 5310   | 1920  | 775   | 701   | 1280  | 658   |
| 11    | 1130  | 3690  | 7030   | 8460   | 19000  | 21200  | 3680   | 1470  | 739   | 1770  | 1140  | 637   |
| 12    | 805   | 7010  | 7150   | 8120   | 15700  | 16600  | 2550   | 1360  | 728   | 1460  | 888   | 625   |
| 13    | 783   | 7460  | 7020   | 8000   | 13000  | 14800  | 4170   | 1430  | 710   | 847   | 769   | 611   |
| 14    | 791   | 7330  | 6440   | 8160   | 10900  | 13500  | 9500   | 1320  | 1060  | 701   | 794   | 607   |
| 15    | 1440  | 7170  | 5610   | 8270   | 9410   | 11800  | 18600  | 1210  | 3030  | 826   | 799   | 605   |
| 16    | 4190  | 6380  | 4720   | 8300   | 7860   | 9680   | 21600  | 1140  | 2190  | 1430  | 706   | 608   |
| 17    | 2720  | 4660  | 4850   | 7870   | 6290   | 8150   | 21100  | 1100  | 1270  | 1370  | 648   | 636   |
| 18    | 1260  | 3540  | 16600  | 7440   | 4740   | 7940   | 19000  | 1070  | 929   | 1080  | 632   | 661   |
| 19    | 763   | 3140  | 27300  | 7370   | 3510   | 11100  | 16800  | 1030  | 1230  | 917   | 634   | 630   |
| 20    | 645   | 2960  | 27800  | 7760   | 2740   | 12300  | 14900  | 986   | 1690  | 853   | 680   | 605   |
| 21    | 598   | 2900  | 27000  | 7540   | 2680   | 10800  | 13100  | 945   | 1540  | 733   | 802   | 684   |
| 22    | 570   | 3010  | 26300  | 7520   | 2520   | 8690   | 10900  | 903   | 1060  | 683   | 730   | 870   |
| 23    | 554   | 2830  | 25100  | 7190   | 3110   | 7460   | 10900  | 874   | 1040  | 639   | 634   | 693   |
| 24    | 546   | 2110  | 23700  | 8380   | 3460   | 6460   | 13200  | 849   | 1020  | 635   | 598   | 615   |
| 25    | 536   | 1910  | 22500  | 12400  | 3150   | 7350   | 9450   | 838   | 1390  | 645   | 583   | 584   |
| 26    | 518   | 1990  | 21200  | 12700  | 2940   | 15400  | 7530   | 818   | 1790  | 632   | 607   | 579   |
| 27    | 533   | 2120  | 19300  | 22900  | 2650   | 18500  | 9560   | 796   | 1470  | 649   | 913   | 573   |
| 28    | 567   | 2180  | 17000  | 26300  | 2610   | 19200  | 10500  | 785   | 979   | 794   | 965   | 617   |
| 29    | 719   | 2180  | 14700  | 27400  | 3320   | 19000  | 9980   | 879   | 822   | 1250  | 828   | 973   |
| 30    | 745   | 3840  | 12200  | 28300  | ---    | 18400  | 8690   | 990   | 758   | 1660  | 1090  | 1270  |
| 31    | 621   | ---   | 9010   | 29200  | ---    | 18800  | ---    | 929   | ---   | 1250  | 2080  | ---   |
| TOTAL | 45379 | 93107 | 378240 | 351170 | 452790 | 380980 | 366250 | 55682 | 36857 | 27434 | 30867 | 24305 |
| MEAN  | 1464  | 3104  | 12200  | 11330  | 15610  | 12290  | 12210  | 1796  | 1229  | 885   | 996   | 810   |
| MAX   | 4210  | 7460  | 27800  | 29200  | 40700  | 24200  | 21600  | 7530  | 3030  | 1770  | 2080  | 1790  |
| MIN   | 518   | 583   | 2070   | 6220   | 2520   | 1830   | 2550   | 785   | 710   | 620   | 583   | 573   |
| CFSM  | .32   | .68   | 2.68   | 2.49   | 3.43   | 2.70   | 2.68   | .39   | .27   | .19   | .22   | .18   |
| IN.   | .37   | .76   | 3.09   | 2.87   | 3.70   | 3.11   | 2.99   | .45   | .30   | .22   | .25   | .20   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1996, BY WATER YEAR (WY)

|      | 1985 | 1986 | 1987  | 1988  | 1989  | 1990  | 1991  | 1992  | 1993  | 1994 | 1995 | 1996 |
|------|------|------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| MEAN | 1217 | 4028 | 6256  | 10660 | 14720 | 12040 | 9998  | 6563  | 3160  | 2013 | 1362 | 918  |
| MAX  | 2885 | 6762 | 12200 | 32180 | 38420 | 24140 | 30040 | 31840 | 10180 | 7113 | 3272 | 2422 |
| (WY) | 1986 | 1994 | 1996  | 1990  | 1990  | 1987  | 1991  | 1991  | 1989  | 1989 | 1992 | 1992 |
| MIN  | 428  | 594  | 848   | 1424  | 2741  | 5841  | 1215  | 747   | 503   | 598  | 538  | 497  |
| (WY) | 1991 | 1991 | 1988  | 1986  | 1986  | 1992  | 1986  | 1992  | 1988  | 1988 | 1986 | 1986 |

## SUMMARY STATISTICS

## FOR 1995 CALENDAR YEAR

## FOR 1996 WATER YEAR

## WATER YEARS 1985 - 1996

|                          | 1995 CALENDAR YEAR | 1996 WATER YEAR | WATER YEARS 1985 - 1996 |
|--------------------------|--------------------|-----------------|-------------------------|
| ANNUAL TOTAL             | 2134829            | 2243061         |                         |
| ANNUAL MEAN              | 5849               | 6129            | 6138                    |
| HIGHEST ANNUAL MEAN      |                    |                 | 9752                    |
| LOWEST ANNUAL MEAN       |                    |                 | 2418                    |
| HIGHEST DAILY MEAN       | 43600              | 40700           | 64500                   |
| LOWEST DAILY MEAN        | 518                | 518             | 319                     |
| ANNUAL SEVEN-DAY MINIMUM | 546                | 546             | 329                     |
| INSTANTANEOUS PEAK FLOW  |                    | 40900           | 65000                   |
| INSTANTANEOUS PEAK STAGE |                    | 30.10           | 35.66                   |
| INSTANTANEOUS LOW FLOW   |                    | 516             | 267                     |
| ANNUAL RUNOFF (CFSM)     | 1.28               | 1.35            | 1.35                    |
| ANNUAL RUNOFF (INCHES)   | 17.43              | 18.31           | 18.30                   |
| 10 PERCENT EXCEEDS       | 17300              | 18900           | 17100                   |
| 50 PERCENT EXCEEDS       | 2670               | 2180            | 2360                    |
| 90 PERCENT EXCEEDS       | 643                | 635             | 572                     |

## PEARL RIVER BASIN

02488000 PEARL RIVER AT ROCKPORT, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY  | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN  | JUL  | AUG  | SEP  |
|------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| 1    | 5.13  | 5.16  | 10.81 | 12.05 | 26.72 | 9.64  | 20.93 | 13.17 | 5.68 | 5.45 | 6.47 | 7.04 |
| 2    | 5.12  | 5.19  | 10.77 | 13.69 | 28.28 | 8.93  | 20.98 | 11.61 | 6.81 | 5.40 | 6.87 | 6.36 |
| 3    | 5.54  | 5.39  | 9.49  | 14.69 | 29.73 | 8.39  | 20.55 | 9.69  | 7.76 | 5.37 | 6.96 | 6.26 |
| 4    | 9.91  | 6.34  | 8.27  | 13.47 | 30.05 | 7.45  | 19.24 | 8.19  | 7.03 | 5.33 | 6.36 | 6.15 |
| 5    | 9.64  | 6.19  | 7.64  | 12.88 | 29.66 | 7.31  | 17.84 | 7.67  | 6.16 | 5.27 | 5.85 | 6.01 |
| 6    | 10.14 | 5.75  | 8.92  | 12.48 | 28.84 | 8.41  | 16.55 | 8.13  | 5.75 | 5.24 | 5.94 | 5.82 |
| 7    | 9.86  | 5.61  | 11.83 | 13.65 | 27.65 | 19.40 | 15.38 | 8.78  | 5.62 | 5.24 | 6.31 | 5.45 |
| 8    | 8.75  | 7.62  | 11.84 | 14.66 | 26.32 | 22.92 | 13.92 | 8.41  | 5.68 | 5.24 | 6.66 | 5.25 |
| 9    | 7.66  | 9.53  | 11.52 | 14.57 | 24.72 | 23.57 | 12.69 | 7.99  | 5.70 | 5.30 | 6.58 | 5.17 |
| 10   | 6.81  | 8.89  | 12.80 | 14.35 | 22.88 | 23.65 | 11.22 | 7.44  | 5.56 | 5.41 | 6.33 | 5.14 |
| 11   | 6.21  | 9.56  | 12.76 | 13.92 | 20.83 | 22.07 | 9.58  | 6.77  | 5.49 | 7.19 | 6.10 | 5.10 |
| 12   | 5.62  | 12.73 | 12.86 | 13.64 | 18.89 | 19.43 | 8.26  | 6.60  | 5.47 | 6.74 | 5.63 | 5.08 |
| 13   | 5.58  | 13.11 | 12.74 | 13.55 | 17.19 | 18.30 | 9.92  | 6.71  | 5.43 | 5.70 | 5.40 | 5.06 |
| 14   | 5.59  | 13.01 | 12.25 | 13.68 | 15.76 | 17.48 | 14.70 | 6.53  | 6.03 | 5.41 | 5.44 | 5.05 |
| 15   | 6.56  | 12.88 | 11.51 | 13.77 | 14.64 | 16.34 | 20.55 | 6.36  | 8.86 | 5.66 | 5.45 | 5.05 |
| 16   | 10.12 | 12.19 | 10.66 | 13.79 | 13.43 | 14.84 | 22.28 | 6.24  | 7.79 | 6.70 | 5.25 | 5.06 |
| 17   | 8.45  | 10.59 | 10.79 | 13.45 | 12.11 | 13.67 | 21.98 | 6.17  | 6.45 | 6.60 | 5.13 | 5.12 |
| 18   | 6.42  | 9.44  | 19.14 | 13.10 | 10.68 | 13.50 | 20.80 | 6.12  | 5.86 | 6.12 | 5.08 | 5.19 |
| 19   | 5.53  | 8.98  | 25.23 | 13.04 | 9.40  | 15.86 | 19.56 | 6.04  | 6.37 | 5.82 | 5.08 | 5.12 |
| 20   | 5.29  | 8.78  | 25.47 | 13.36 | 8.50  | 16.69 | 18.39 | 5.96  | 7.11 | 5.68 | 5.17 | 5.07 |
| 21   | 5.19  | 8.70  | 25.06 | 13.18 | 8.44  | 15.69 | 17.21 | 5.89  | 6.88 | 5.44 | 5.42 | 5.24 |
| 22   | 5.12  | 8.84  | 24.74 | 13.16 | 8.24  | 14.09 | 15.71 | 5.81  | 6.09 | 5.33 | 5.27 | 5.62 |
| 23   | 5.09  | 8.62  | 24.09 | 12.89 | 8.95  | 13.11 | 15.72 | 5.75  | 6.06 | 5.24 | 5.06 | 5.27 |
| 24   | 5.07  | 7.70  | 23.38 | 13.81 | 9.35  | 12.27 | 17.29 | 5.71  | 6.02 | 5.22 | 4.98 | 5.10 |
| 25   | 5.05  | 7.42  | 22.77 | 16.75 | 9.00  | 12.94 | 14.66 | 5.68  | 6.64 | 5.24 | 4.94 | 5.05 |
| 26   | 5.01  | 7.53  | 22.05 | 16.97 | 8.75  | 18.66 | 13.17 | 5.65  | 7.25 | 5.20 | 4.99 | 5.04 |
| 27   | 5.04  | 7.72  | 21.00 | 22.95 | 8.40  | 20.52 | 14.75 | 5.60  | 6.76 | 5.24 | 5.59 | 5.03 |
| 28   | 5.12  | 7.80  | 19.67 | 24.72 | 8.35  | 20.96 | 15.41 | 5.58  | 5.95 | 5.53 | 5.69 | 5.13 |
| 29   | 5.44  | 7.78  | 18.26 | 25.29 | 9.19  | 20.83 | 15.07 | 5.76  | 5.65 | 6.32 | 5.44 | 5.83 |
| 30   | 5.50  | 9.75  | 16.62 | 25.72 | ---   | 20.48 | 14.09 | 5.97  | 5.53 | 6.98 | 5.93 | 6.36 |
| 31   | 5.24  | ---   | 14.33 | 26.17 | ---   | 20.73 | ---   | 5.86  | ---  | 6.33 | 7.42 | ---  |
| MEAN | 6.48  | 8.63  | 15.78 | 15.59 | 17.07 | 16.07 | 16.28 | 7.03  | 6.31 | 5.71 | 5.77 | 5.44 |
| MAX  | 10.14 | 13.11 | 25.47 | 26.17 | 30.05 | 23.65 | 22.28 | 13.17 | 8.86 | 7.19 | 7.42 | 7.04 |
| MIN  | 5.01  | 5.16  | 7.64  | 12.05 | 8.24  | 7.31  | 8.26  | 5.58  | 5.43 | 5.20 | 4.94 | 5.03 |

## 02488500 PEARL RIVER NEAR MONTICELLO, MS

LOCATION.--Lat 31°33'12", 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.

DRAINAGE AREA.--4,993 mi<sup>2</sup>.

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.

REVISED RECORDS.--WSP 1504: 1939, 1949.

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 (\*):

| Date    | Time | Discharge (ft <sup>3</sup> /s) | Gage Height (ft) | Date    | Time | Discharge (ft <sup>3</sup> /s) | Gage Height (ft) |
|---------|------|--------------------------------|------------------|---------|------|--------------------------------|------------------|
| Dec. 20 | 1445 | 30,300                         | 22.55            | Apr. 16 | 1630 | 23,700                         | 20.01            |
| Feb. 5  | 0130 | *40,300                        | *25.37           |         |      |                                |                  |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC    | JAN    | FEB    | MAR    | APR    | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 1     | 716   | 803   | 4440   | 7980   | 30200  | 3780   | 20700  | 7230  | 984   | 869   | 2210  | 2080  |
| 2     | 730   | 830   | 4990   | 7890   | 33200  | 3520   | 20500  | 5590  | 1110  | 834   | 2010  | 1520  |
| 3     | 899   | 956   | 4010   | 10500  | 38100  | 2970   | 20000  | 3780  | 2380  | 806   | 1810  | 1320  |
| 4     | 2300  | 1180  | 2860   | 9510   | 39700  | 2420   | 18400  | 2570  | 2070  | 788   | 1480  | 1260  |
| 5     | 4150  | 1450  | 2110   | 7870   | 40100  | 1980   | 15700  | 2000  | 1510  | 763   | 1180  | 1180  |
| 6     | 3770  | 1190  | 2640   | 7260   | 39400  | 3170   | 13500  | 1930  | 1120  | 743   | 1460  | 1100  |
| 7     | 4190  | 1030  | 5710   | 7640   | 37600  | 13200  | 11400  | 2550  | 982   | 728   | 1520  | 1040  |
| 8     | 3450  | 1290  | 6560   | 9350   | 34800  | 22800  | 9080   | 2380  | 1060  | 729   | 1620  | 882   |
| 9     | 2560  | 3370  | 6050   | 9710   | 31500  | 24600  | 7180   | 2070  | 1050  | 734   | 1770  | 779   |
| 10    | 1880  | 3470  | 7360   | 9440   | 28100  | 25300  | 5450   | 1790  | 963   | 776   | 1570  | 737   |
| 11    | 1490  | 3410  | 7440   | 8940   | 24200  | 24900  | 3890   | 1420  | 902   | 996   | 1380  | 702   |
| 12    | 1140  | 6350  | 7360   | 8490   | 19800  | 21500  | 2710   | 1270  | 867   | 1750  | 1010  | 681   |
| 13    | 938   | 7800  | 7290   | 8240   | 15800  | 17300  | 4830   | 1270  | 877   | 1200  | 867   | 679   |
| 14    | 1040  | 7640  | 6590   | 8280   | 12600  | 15100  | 10100  | 1240  | 1080  | 925   | 832   | 670   |
| 15    | 968   | 7490  | 5600   | 8380   | 10500  | 13200  | 20300  | 1120  | 2470  | 878   | 869   | 667   |
| 16    | 2930  | 6880  | 4590   | 8450   | 8870   | 11000  | 23500  | 1070  | 2920  | 1350  | 768   | 683   |
| 17    | 3580  | 5270  | 4750   | 8170   | 7250   | 8910   | 23400  | 1030  | 1870  | 1720  | 711   | 697   |
| 18    | 2040  | 3810  | 13300  | 7610   | 5620   | 8140   | 22000  | 1010  | 1280  | 1390  | 691   | 709   |
| 19    | 1180  | 3230  | 27400  | 7350   | 4320   | 9920   | 19700  | 957   | 1220  | 1100  | 694   | 702   |
| 20    | 877   | 2950  | 30000  | 7830   | 3470   | 12600  | 17200  | 927   | 1500  | 966   | 699   | 676   |
| 21    | 775   | 2720  | 29800  | 7660   | 3210   | 11900  | 14800  | 921   | 1770  | 872   | 808   | 739   |
| 22    | 746   | 3010  | 28800  | 7560   | 2830   | 9630   | 12100  | 911   | 1400  | 773   | 784   | 914   |
| 23    | 718   | 3030  | 28000  | 7420   | 3100   | 7710   | 11500  | 898   | 1130  | 720   | 689   | 853   |
| 24    | 711   | 2340  | 26700  | 7670   | 3490   | 6630   | 14300  | 872   | 1180  | 686   | 662   | 724   |
| 25    | 710   | 1880  | 25300  | 11700  | 3480   | 7820   | 11500  | 856   | 1250  | 679   | 671   | 695   |
| 26    | 694   | 1900  | 24000  | 13400  | 3170   | 14000  | 7690   | 858   | 1670  | 681   | 688   | 665   |
| 27    | 710   | 2210  | 22500  | 21700  | 2980   | 17700  | 8570   | 856   | 1770  | 663   | 764   | 673   |
| 28    | 838   | 2230  | 20300  | 25900  | 2770   | 19600  | 10200  | 856   | 1300  | 710   | 1050  | 742   |
| 29    | 806   | 1980  | 17700  | 27500  | 3110   | 20100  | 9720   | 922   | 1030  | 828   | 920   | 894   |
| 30    | 938   | 3140  | 14900  | 28500  | ---    | 20300  | 8510   | 1100  | 923   | 1460  | 1010  | 1280  |
| 31    | 892   | ---   | 11500  | 29400  | ---    | 21100  | ---    | 1070  | ---   | 1440  | 1570  | ---   |
| TOTAL | 49366 | 94839 | 410550 | 357300 | 493270 | 402800 | 398430 | 53324 | 41638 | 29557 | 34767 | 26943 |
| MEAN  | 1592  | 3161  | 13240  | 11530  | 17010  | 12990  | 13280  | 1720  | 1388  | 953   | 1122  | 898   |
| MAX   | 4190  | 7800  | 30000  | 29400  | 40100  | 25300  | 23500  | 7230  | 2920  | 1750  | 2210  | 2080  |
| MIN   | 694   | 803   | 2110   | 7260   | 2770   | 1980   | 2710   | 856   | 867   | 663   | 662   | 665   |
| CFSM  | .32   | .63   | 2.65   | 2.31   | 3.41   | 2.60   | 2.66   | .34   | .28   | .19   | .22   | .18   |
| IN.   | .37   | .71   | 3.06   | 2.66   | 3.68   | 3.00   | 2.97   | .40   | .31   | .22   | .26   | .20   |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1996, BY WATER YEAR (WY)

|      | 1848 | 3172 | 8801  | 12780 | 14220 | 14580 | 15360 | 8687  | 2894  | 2007 | 1821  | 1381 |
|------|------|------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|
| MEAN | 1848 | 3172 | 8801  | 12780 | 14220 | 14580 | 15360 | 8687  | 2894  | 2007 | 1821  | 1381 |
| MAX  | 9167 | 8443 | 37130 | 36890 | 43290 | 29990 | 51710 | 40240 | 11740 | 7516 | 10920 | 7323 |
| (WY) | 1976 | 1994 | 1983  | 1974  | 1990  | 1980  | 1980  | 1991  | 1983  | 1989 | 1975  | 1979 |
| MIN  | 305  | 356  | 728   | 1522  | 3186  | 2950  | 1551  | 800   | 650   | 602  | 486   | 482  |
| (WY) | 1964 | 1964 | 1963  | 1986  | 1970  | 1967  | 1967  | 1963  | 1988  | 1969 | 1969  | 1963 |

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1962 - 1996

|                          |         |         |        |
|--------------------------|---------|---------|--------|
| ANNUAL TOTAL             | 2391193 | 2392784 | 7262   |
| ANNUAL MEAN              | 6551    | 6538    | 17210  |
| HIGHEST ANNUAL MEAN      |         |         | 2001   |
| LOWEST ANNUAL MEAN       |         |         | 1963   |
| HIGHEST DAILY MEAN       | 42800   | Mar 16  | 121000 |
| LOWEST DAILY MEAN        | 612     | Sep 12  | 269    |
| ANNUAL SEVEN-DAY MINIMUM | 623     | Sep 8   | 274    |
| INSTANTANEOUS PEAK FLOW  |         |         | 122000 |
| INSTANTANEOUS PEAK STAGE |         |         | 34.08  |
| INSTANTANEOUS LOW FLOW   |         |         | 269    |
| ANNUAL RUNOFF (CFSM)     | 1.31    | 1.31    | 1.45   |
| ANNUAL RUNOFF (INCHES)   | 17.82   | 17.83   | 19.76  |
| 10 PERCENT EXCEEDS       | 22100   | 20400   | 20600  |
| 50 PERCENT EXCEEDS       | 3030    | 2320    | 2640   |
| 90 PERCENT EXCEEDS       | 805     | 730     | 673    |



## PEARL RIVER BASIN

02488500 PEARL RIVER NEAR MONTICELLO, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY  | OCT  | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN  | JUL  | AUG  | SEP  |
|------|------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| 1    | 4.70 | 4.88  | 9.56  | 11.97 | 22.51 | 8.66  | 18.74 | 11.68 | 5.38 | 5.00 | 6.96 | 6.82 |
| 2    | 4.73 | 4.93  | 10.04 | 11.89 | 23.46 | 8.41  | 18.62 | 10.53 | 5.57 | 4.94 | 6.72 | 6.07 |
| 3    | 5.06 | 5.16  | 9.16  | 13.60 | 24.79 | 7.85  | 18.43 | 8.99  | 7.33 | 4.88 | 6.48 | 5.77 |
| 4    | 6.93 | 5.54  | 8.02  | 12.97 | 25.21 | 7.23  | 17.69 | 7.73  | 6.95 | 4.85 | 6.01 | 5.68 |
| 5    | 9.00 | 5.97  | 7.16  | 11.91 | 25.31 | 6.69  | 16.40 | 7.04  | 6.19 | 4.80 | 5.55 | 5.54 |
| 6    | 8.65 | 5.56  | 7.75  | 11.48 | 25.13 | 8.03  | 15.27 | 6.94  | 5.58 | 4.76 | 5.96 | 5.41 |
| 7    | 9.04 | 5.30  | 10.57 | 11.74 | 24.67 | 14.76 | 14.16 | 7.70  | 5.34 | 4.73 | 6.06 | 5.32 |
| 8    | 8.33 | 5.72  | 11.21 | 12.88 | 23.93 | 19.62 | 12.85 | 7.49  | 5.46 | 4.73 | 6.20 | 5.03 |
| 9    | 7.38 | 8.32  | 10.84 | 13.10 | 22.96 | 20.36 | 11.65 | 7.11  | 5.45 | 4.74 | 6.42 | 4.83 |
| 10   | 6.57 | 8.49  | 11.74 | 12.93 | 21.74 | 20.64 | 10.42 | 6.74  | 5.29 | 4.83 | 6.13 | 4.75 |
| 11   | 6.02 | 8.49  | 11.80 | 12.61 | 20.20 | 20.51 | 9.09  | 6.21  | 5.17 | 5.21 | 5.85 | 4.68 |
| 12   | 5.47 | 10.99 | 11.75 | 12.32 | 18.33 | 19.05 | 7.90  | 5.97  | 5.10 | 6.39 | 5.26 | 4.63 |
| 13   | 5.13 | 12.04 | 11.70 | 12.16 | 16.42 | 17.18 | 9.69  | 5.97  | 5.11 | 5.58 | 5.00 | 4.63 |
| 14   | 5.30 | 11.94 | 11.22 | 12.19 | 14.80 | 16.08 | 13.41 | 5.91  | 5.47 | 5.11 | 4.93 | 4.61 |
| 15   | 5.18 | 11.84 | 10.51 | 12.25 | 13.59 | 15.14 | 18.53 | 5.72  | 7.28 | 5.02 | 5.00 | 4.60 |
| 16   | 7.71 | 11.42 | 9.70  | 12.30 | 12.57 | 13.92 | 19.91 | 5.62  | 7.85 | 5.79 | 4.81 | 4.64 |
| 17   | 8.46 | 10.25 | 9.83  | 12.11 | 11.47 | 12.75 | 19.90 | 5.55  | 6.61 | 6.35 | 4.70 | 4.67 |
| 18   | 6.75 | 8.98  | 14.87 | 11.73 | 10.25 | 12.27 | 19.30 | 5.50  | 5.77 | 5.88 | 4.65 | 4.69 |
| 19   | 5.54 | 8.41  | 21.45 | 11.55 | 9.15  | 13.33 | 18.29 | 5.41  | 5.66 | 5.41 | 4.66 | 4.68 |
| 20   | 5.02 | 8.12  | 22.47 | 11.88 | 8.35  | 14.80 | 17.11 | 5.35  | 6.09 | 5.18 | 4.67 | 4.62 |
| 21   | 4.82 | 7.87  | 22.36 | 11.76 | 8.10  | 14.43 | 15.93 | 5.33  | 6.45 | 5.01 | 4.89 | 4.75 |
| 22   | 4.77 | 8.19  | 22.01 | 11.69 | 7.70  | 13.17 | 14.56 | 5.31  | 5.92 | 4.82 | 4.84 | 5.09 |
| 23   | 4.71 | 8.21  | 21.69 | 11.60 | 7.98  | 12.00 | 14.19 | 5.28  | 5.50 | 4.71 | 4.65 | 4.97 |
| 24   | 4.69 | 7.44  | 21.20 | 11.76 | 8.38  | 11.28 | 15.71 | 5.22  | 5.57 | 4.64 | 4.59 | 4.72 |
| 25   | 4.69 | 6.86  | 20.66 | 14.29 | 8.37  | 12.02 | 14.21 | 5.19  | 5.67 | 4.63 | 4.61 | 4.66 |
| 26   | 4.66 | 6.89  | 20.12 | 15.19 | 8.05  | 15.54 | 11.99 | 5.18  | 6.28 | 4.63 | 4.65 | 4.60 |
| 27   | 4.69 | 7.28  | 19.48 | 19.13 | 7.85  | 17.38 | 12.53 | 5.17  | 6.42 | 4.59 | 4.80 | 4.61 |
| 28   | 4.95 | 7.30  | 18.55 | 20.90 | 7.62  | 18.26 | 13.48 | 5.17  | 5.73 | 4.69 | 5.33 | 4.76 |
| 29   | 4.88 | 6.99  | 17.36 | 21.51 | 7.99  | 18.48 | 13.23 | 5.28  | 5.29 | 4.93 | 5.10 | 5.05 |
| 30   | 5.13 | 8.30  | 15.99 | 21.88 | ---   | 18.57 | 12.51 | 5.58  | 5.10 | 5.98 | 5.25 | 5.71 |
| 31   | 5.05 | ---   | 14.16 | 22.21 | ---   | 18.89 | ---   | 5.53  | ---  | 5.94 | 6.12 | ---  |
| MEAN | 5.94 | 7.92  | 14.35 | 13.79 | 15.41 | 14.43 | 14.86 | 6.37  | 5.89 | 5.12 | 5.38 | 5.02 |
| MAX  | 9.04 | 12.04 | 22.47 | 22.21 | 25.31 | 20.64 | 19.91 | 11.68 | 7.85 | 6.39 | 6.96 | 6.82 |
| MIN  | 4.66 | 4.88  | 7.16  | 11.48 | 7.62  | 6.69  | 7.90  | 5.17  | 5.10 | 4.59 | 4.59 | 4.60 |

## 02488700 WHITESAND CREEK NEAR OAK VALE, MS

LOCATION.--Lat 31°28'14", long 89°58'25", in SW1/4 sec.24, T.6 N., R.20 W., St. Stephens Meridian, Lawrence County, Hydrologic Unit 03180003, near left bank on downstream side of bridge on State Highway 43, 1.2 mi upstream from Illinois Central and Gulf Railroad bridge, 2.3 mi north of Oak Vale, and 3.7 mi upstream from mouth.

DRAINAGE AREA.--130 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1965 to current year. Daily mean gage heights published since October 1985.

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

GAGE.--Water-stage recorder. Datum of gage is 182.20 ft above sea level (Mississippi Department of Transportation bench mark).

REMARKS.--Estimated daily discharges: Jun. 14-18. Records good except for estimated daily discharges, which are poor. Satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 28, 29, 1961, reached a stage of 17.11 ft from floodmark, discharge, 15,900 ft<sup>3</sup>/s. Maximum stage known since at least 1879, 20 1/4 ft in April 1900, and flood in January 1925 reached a stage of 17.3 ft 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) |
|--------|------|-----------------------------------|---------------------|---------------------------------------|------|-----------------------------------|---------------------|
| Mar. 7 | 1115 | *1,740                            | *7.49               | No peaks greater than base discharge. |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1     | 98   | 120  | 116  | 134  | 200  | 163  | 217  | 128  | 102  | 92   | 146  | 101  |
| 2     | 98   | 144  | 115  | 171  | 437  | 145  | 175  | 119  | 126  | 92   | 165  | 100  |
| 3     | 148  | 166  | 112  | 155  | 684  | 134  | 159  | 114  | 149  | 91   | 119  | 123  |
| 4     | 259  | 147  | 122  | 131  | 297  | 129  | 152  | 111  | 120  | 90   | 99   | 105  |
| 5     | 170  | 125  | 137  | 124  | 206  | 133  | 148  | 108  | 106  | 89   | 93   | 95   |
| 6     | 125  | 121  | 234  | 123  | 190  | 1000 | 233  | 106  | 102  | 88   | 302  | 95   |
| 7     | 105  | 135  | 348  | 123  | 182  | 1440 | 246  | 104  | 112  | 88   | 168  | 94   |
| 8     | 101  | 164  | 192  | 119  | 172  | 984  | 181  | 102  | 181  | 89   | 115  | 94   |
| 9     | 101  | 136  | 249  | 118  | 163  | 328  | 156  | 102  | 135  | 113  | 102  | 93   |
| 10    | 101  | 126  | 231  | 118  | 155  | 232  | 145  | 101  | 113  | 123  | 96   | 91   |
| 11    | 100  | 165  | 155  | 120  | 149  | 197  | 141  | 103  | 107  | 91   | 96   | 91   |
| 12    | 101  | 179  | 136  | 130  | 138  | 178  | 141  | 105  | 107  | 87   | 95   | 90   |
| 13    | 102  | 144  | 128  | 126  | 132  | 166  | 510  | 101  | 108  | 88   | 99   | 90   |
| 14    | 121  | 132  | 125  | 121  | 132  | 158  | 582  | 100  | e112 | 103  | 101  | 91   |
| 15    | 118  | 129  | 124  | 118  | 132  | 154  | 823  | 98   | e114 | 99   | 94   | 92   |
| 16    | 106  | 125  | 123  | 117  | 127  | 149  | 473  | 98   | e111 | 96   | 92   | 97   |
| 17    | 103  | 122  | 127  | 118  | 122  | 217  | 246  | 98   | e102 | 101  | 90   | 103  |
| 18    | 102  | 121  | 531  | 121  | 123  | 236  | 199  | 97   | e105 | 96   | 89   | 96   |
| 19    | 104  | 122  | 1090 | 122  | 130  | 229  | 182  | 97   | 96   | 94   | 90   | 92   |
| 20    | 104  | 123  | 679  | 118  | 146  | 167  | 166  | 97   | 96   | 91   | 91   | 91   |
| 21    | 102  | 126  | 250  | 118  | 142  | 146  | 148  | 96   | 98   | 87   | 93   | 135  |
| 22    | 104  | 122  | 192  | 120  | 133  | 139  | 138  | 95   | 101  | 85   | 91   | 162  |
| 23    | 104  | 120  | 164  | 119  | 130  | 135  | 237  | 95   | 103  | 85   | 89   | 108  |
| 24    | 104  | 142  | 149  | 174  | 126  | 134  | 288  | 97   | 108  | 85   | 93   | 95   |
| 25    | 104  | 133  | 141  | 178  | 123  | 351  | 166  | 95   | 121  | 85   | 88   | 93   |
| 26    | 105  | 123  | 136  | 375  | 123  | 492  | 141  | 95   | 126  | 87   | 92   | 93   |
| 27    | 123  | 119  | 131  | 1300 | 130  | 255  | 132  | 96   | 116  | 88   | 90   | 98   |
| 28    | 165  | 117  | 127  | 736  | 261  | 230  | 124  | 96   | 100  | 89   | 89   | 106  |
| 29    | 131  | 119  | 125  | 276  | 219  | 197  | 129  | 108  | 94   | 90   | 101  | 105  |
| 30    | 114  | 121  | 123  | 246  | ---  | 212  | 145  | 112  | 92   | 89   | 124  | 99   |
| 31    | 115  | ---  | 125  | 242  | ---  | 258  | ---  | 104  | ---  | 97   | 110  | ---  |
| TOTAL | 3638 | 3988 | 6737 | 6411 | 5404 | 9088 | 6923 | 3178 | 3363 | 2868 | 3402 | 3018 |
| MEAN  | 117  | 133  | 217  | 207  | 186  | 293  | 231  | 103  | 112  | 92.5 | 110  | 101  |
| MAX   | 259  | 179  | 1090 | 1300 | 684  | 1440 | 823  | 128  | 181  | 123  | 302  | 162  |
| MIN   | 98   | 117  | 112  | 117  | 122  | 129  | 124  | 95   | 92   | 85   | 88   | 90   |
| CFSM  | .90  | 1.02 | 1.67 | 1.59 | 1.43 | 2.26 | 1.78 | .79  | .86  | .71  | .84  | .77  |
| IN.   | 1.04 | 1.14 | 1.93 | 1.83 | 1.55 | 2.60 | 1.98 | .91  | .96  | .82  | .97  | .86  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1996, BY WATER YEAR (WY)

|      | 1965 | 1966 | 1967 | 1968 | 1969 | 1970 | 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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 123  | 147  | 205  | 298  | 314  | 333  | 327  | 240  | 146  | 132  | 124  | 122  | 123  | 124  | 125  | 126  | 127  | 128  | 129  | 130  | 131  | 132  | 133  | 134  | 135  | 136  | 137  | 138  | 139  | 140  | 141  | 142  |
| MAX  | 423  | 503  | 407  | 810  | 746  | 844  | 1173 | 810  | 289  | 315  | 307  | 279  | 279  | 279  | 279  | 279  | 279  | 279  | 279  | 279  | 279  | 279  | 279  | 279  | 279  | 279  | 279  | 279  | 279  | 279  | 279  | 279  |
| (WY) | 1985 | 1994 | 1983 | 1990 | 1966 | 1973 | 1974 | 1990 | 1989 | 1981 | 1975 | 1979 | 1979 | 1979 | 1979 | 1979 | 1979 | 1979 | 1979 | 1979 | 1979 | 1979 | 1979 | 1979 | 1979 | 1979 | 1979 | 1979 | 1979 | 1979 | 1979 | 1979 |
| MIN  | 72.6 | 78.9 | 109  | 116  | 112  | 118  | 104  | 103  | 89.3 | 72.8 | 80.8 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 |
| (WY) | 1968 | 1968 | 1966 | 1970 | 1968 | 1967 | 1970 | 1996 | 1972 | 1968 | 1972 | 1970 | 1970 | 1970 | 1970 | 1970 | 1970 | 1970 | 1970 | 1970 | 1970 | 1970 | 1970 | 1970 | 1970 | 1970 | 1970 | 1970 | 1970 | 1970 | 1970 | 1970 |

| SUMMARY STATISTICS       | FOR 1995 CALENDAR YEAR | FOR 1996 WATER YEAR | WATER YEARS 1965 - 1996 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 74905                  | 58018               |                         |
| ANNUAL MEAN              | 205                    | 159                 | 209                     |
| HIGHEST ANNUAL MEAN      |                        |                     | 339                     |
| LOWEST ANNUAL MEAN       |                        |                     | 102                     |
| HIGHEST DAILY MEAN       | 2650                   | 1440                | 16400                   |
| LOWEST DAILY MEAN        | 98                     | 85                  | 65                      |
| ANNUAL SEVEN-DAY MINIMUM | 102                    | 86                  | 68                      |
| INSTANTANEOUS PEAK FLOW  |                        | 1740                | 25400                   |
| INSTANTANEOUS PEAK STAGE |                        | 7.49                | 18.76                   |
| INSTANTANEOUS LOW FLOW   |                        | 83                  | 59                      |
| ANNUAL RUNOFF (CFSM)     | 1.58                   | 1.22                | 1.60                    |
| ANNUAL RUNOFF (INCHES)   | 21.43                  | 16.60               | 21.80                   |
| 10 PERCENT EXCEEDS       | 286                    | 233                 | 307                     |
| 50 PERCENT EXCEEDS       | 136                    | 121                 | 132                     |
| 90 PERCENT EXCEEDS       | 106                    | 92                  | 89                      |

e Estimated

## PEARL RIVER BASIN

02488700 WHITESAND CREEK NEAR OAK VALE, MS--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | 3.92 | 4.03 | 4.01 | 4.09 | 4.36 | 4.22 | 4.43 | 4.14 | 4.01 | 3.95 | 4.20 | 3.98 |
| 2    | 3.92 | 4.14 | 4.00 | 4.25 | 5.01 | 4.14 | 4.27 | 4.10 | 4.13 | 3.95 | 4.27 | 3.97 |
| 3    | 4.15 | 4.23 | 3.99 | 4.18 | 5.68 | 4.10 | 4.20 | 4.07 | 4.23 | 3.94 | 4.07 | 4.08 |
| 4    | 4.57 | 4.15 | 4.04 | 4.08 | 4.69 | 4.07 | 4.17 | 4.06 | 4.10 | 3.94 | 3.98 | 4.00 |
| 5    | 4.24 | 4.05 | 4.11 | 4.05 | 4.39 | 4.09 | 4.16 | 4.04 | 4.03 | 3.93 | 3.95 | 3.94 |
| 6    | 4.05 | 4.03 | 4.45 | 4.04 | 4.33 | 6.28 | 4.48 | 4.03 | 4.01 | 3.93 | 4.71 | 3.93 |
| 7    | 3.96 | 4.10 | 4.84 | 4.04 | 4.30 | 7.04 | 4.53 | 4.02 | 4.06 | 3.93 | 4.28 | 3.93 |
| 8    | 3.94 | 4.22 | 4.33 | 4.03 | 4.25 | 6.23 | 4.29 | 4.01 | 4.35 | 3.93 | 4.05 | 3.93 |
| 9    | 3.94 | 4.10 | 4.53 | 4.02 | 4.22 | 4.78 | 4.19 | 4.01 | 4.17 | 4.04 | 3.99 | 3.92 |
| 10   | 3.94 | 4.06 | 4.47 | 4.02 | 4.19 | 4.48 | 4.14 | 4.01 | 4.07 | 4.10 | 3.96 | 3.92 |
| 11   | 3.93 | 4.22 | 4.18 | 4.03 | 4.16 | 4.35 | 4.12 | 4.02 | 4.04 | 3.94 | 3.96 | 3.91 |
| 12   | 3.94 | 4.28 | 4.10 | 4.08 | 4.11 | 4.28 | 4.13 | 4.03 | 4.04 | 3.92 | 3.95 | 3.91 |
| 13   | 3.94 | 4.14 | 4.07 | 4.06 | 4.08 | 4.23 | 5.24 | 4.01 | 4.04 | 3.93 | 3.98 | 3.91 |
| 14   | 4.03 | 4.08 | 4.05 | 4.03 | 4.08 | 4.20 | 5.50 | 4.00 | ---  | 4.01 | 3.99 | 3.91 |
| 15   | 4.02 | 4.07 | 4.05 | 4.02 | 4.08 | 4.18 | 6.01 | 3.99 | ---  | 3.99 | 3.95 | 3.92 |
| 16   | 3.96 | 4.05 | 4.04 | 4.01 | 4.06 | 4.16 | 5.24 | 3.99 | ---  | 3.97 | 3.94 | 3.95 |
| 17   | 3.95 | 4.04 | 4.06 | 4.02 | 4.04 | 4.42 | 4.60 | 3.99 | ---  | 3.99 | 3.93 | 3.98 |
| 18   | 3.94 | 4.04 | 5.22 | 4.04 | 4.05 | 4.49 | 4.43 | 3.99 | ---  | 3.97 | 3.92 | 3.94 |
| 19   | 3.95 | 4.04 | 6.47 | 4.04 | 4.08 | 4.47 | 4.37 | 3.99 | 3.98 | 3.96 | 3.92 | 3.92 |
| 20   | 3.95 | 4.05 | 5.60 | 4.02 | 4.15 | 4.24 | 4.30 | 3.99 | 3.98 | 3.95 | 3.92 | 3.91 |
| 21   | 3.94 | 4.06 | 4.54 | 4.02 | 4.13 | 4.15 | 4.23 | 3.98 | 3.99 | 3.92 | 3.94 | 4.12 |
| 22   | 3.95 | 4.04 | 4.33 | 4.03 | 4.09 | 4.12 | 4.18 | 3.97 | 4.00 | 3.91 | 3.92 | 4.24 |
| 23   | 3.95 | 4.03 | 4.22 | 4.03 | 4.07 | 4.10 | 4.54 | 3.98 | 4.01 | 3.91 | 3.91 | 3.99 |
| 24   | 3.95 | 4.13 | 4.16 | 4.26 | 4.06 | 4.10 | 4.73 | 3.99 | 4.03 | 3.91 | 3.93 | 3.92 |
| 25   | 3.95 | 4.09 | 4.13 | 4.28 | 4.04 | 4.80 | 4.30 | 3.97 | 4.09 | 3.91 | 3.91 | 3.91 |
| 26   | 3.96 | 4.04 | 4.10 | 4.76 | 4.05 | 5.23 | 4.20 | 3.98 | 4.12 | 3.92 | 3.93 | 3.91 |
| 27   | 4.04 | 4.03 | 4.08 | 6.82 | 4.07 | 4.56 | 4.15 | 3.98 | 4.07 | 3.92 | 3.92 | 3.94 |
| 28   | 4.23 | 4.01 | 4.06 | 5.72 | 4.57 | 4.47 | 4.12 | 3.98 | 3.99 | 3.92 | 3.91 | 3.98 |
| 29   | 4.08 | 4.03 | 4.05 | 4.63 | 4.43 | 4.35 | 4.14 | 4.04 | 3.96 | 3.93 | 3.98 | 3.98 |
| 30   | 4.00 | 4.03 | 4.05 | 4.53 | ---  | 4.40 | 4.21 | 4.06 | 3.95 | 3.93 | 4.09 | 3.95 |
| 31   | 4.01 | ---  | 4.05 | 4.51 | ---  | 4.57 | ---  | 4.02 | ---  | 3.96 | 4.02 | ---  |
| MEAN | 4.01 | 4.09 | 4.33 | 4.28 | 4.27 | 4.56 | 4.45 | 4.01 | ---  | 3.95 | 4.01 | 3.96 |
| MAX  | 4.57 | 4.28 | 6.47 | 6.82 | 5.68 | 7.04 | 6.01 | 4.14 | ---  | 4.10 | 4.71 | 4.24 |
| MIN  | 3.92 | 4.01 | 3.99 | 4.01 | 4.04 | 4.07 | 4.12 | 3.97 | ---  | 3.91 | 3.91 | 3.91 |

## 02489000 PEARL RIVER NEAR COLUMBIA, MS

LOCATION.--Lat 31°14'14", long 89°50'54", in E1/2 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.--August 1928 to September 1954 (monthly discharge only for January to July 1930, published in WSP 1304). January 1972 to current year (gage heights only). Gage height records collected at same site November 1904 to December 1971 are contained in reports of National Weather Service.

GAGE.--Nonrecording gage. 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.--Records furnished by National Weather Service.

AVERAGE DISCHARGE.--26 years (1928-54), 7,384 ft<sup>3</sup>/s, 17.62 in/yr.

EXTREMES FOR PERIOD OF RECORD.--1928-1954: Maximum discharge, 72,600 ft<sup>3</sup>/s, Apr. 9, 1938, gage height, 26.40 ft, minimum, 705 ft<sup>3</sup>/s, Oct. 21, 1952, gage height 0.81 ft 1904 to current year: Maximum observed gage height, 27.8 ft, Apr. 22, 1979.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1874 reached a stage of about 31 ft, from information by National Weather Service.

EXTREMES FOR CURRENT YEAR.--Maximum observed gage height, 18.91 ft, Mar. 7, minimum observed, .62 ft, Sept. 2.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY OBSERVATION AT 06:00 VALUES

| DAY  | OCT  | NOV  | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1    | .66  | 1.03 | 2.77  | 8.59  | 15.42 | 4.07  | 12.95 | 7.72 | 1.44 | 1.08 | 1.62 | 1.30 |
| 2    | .62  | .93  | 3.85  | 6.93  | 15.78 | 4.35  | 12.82 | 7.01 | 1.44 | .99  | 2.16 | 2.12 |
| 3    | .71  | 1.20 | 4.38  | 6.42  | 16.50 | 4.22  | 12.54 | 6.08 | 1.62 | .94  | 2.40 | 1.78 |
| 4    | 1.12 | 1.18 | 3.85  | 7.74  | 17.56 | 3.75  | 12.39 | 4.80 | 2.60 | .88  | 2.05 | 1.51 |
| 5    | 1.54 | 1.18 | 3.05  | 7.43  | 18.38 | 3.35  | 12.11 | 3.75 | 2.51 | .84  | 1.77 | 1.38 |
| 6    | 3.58 | 1.47 | 2.45  | 6.43  | 18.80 | 2.99  | 11.42 | 3.12 | 2.00 | .83  | 1.48 | 1.28 |
| 7    | 3.21 | 1.33 | 2.73  | 6.01  | 18.91 | 6.64  | 10.88 | 2.83 | 1.54 | .80  | 1.71 | 1.20 |
| 8    | 3.60 | 1.29 | 4.94  | 6.05  | 18.68 | 10.78 | 9.52  | 3.28 | 1.52 | .80  | 1.88 | 1.12 |
| 9    | 3.18 | 1.24 | 5.61  | 6.97  | 18.12 | 12.84 | 8.34  | 3.20 | 1.92 | .80  | 1.76 | 1.03 |
| 10   | 2.53 | 2.73 | 5.37  | 7.23  | ---   | 13.54 | 7.22  | 2.92 | 1.50 | .79  | 1.95 | .85  |
| 11   | 1.97 | 3.30 | 5.93  | 7.08  | ---   | 13.91 | 6.12  | 2.65 | 1.31 | .86  | 1.68 | .78  |
| 12   | 1.59 | 3.17 | 5.96  | 6.85  | 14.82 | 13.92 | 5.04  | 2.35 | 1.19 | .83  | 1.65 | .72  |
| 13   | 1.29 | 5.05 | 5.90  | 6.57  | ---   | 13.44 | 4.26  | 2.09 | 1.11 | 1.68 | 1.27 | .68  |
| 14   | 1.16 | 5.98 | 5.93  | 6.38  | 11.50 | 11.95 | 6.35  | 2.00 | 1.18 | 2.20 | 1.03 | .66  |
| 15   | 1.14 | 5.96 | 5.58  | 6.41  | 9.56  | 10.88 | 8.98  | 1.99 | 1.45 | 1.51 | .93  | .64  |
| 16   | 1.08 | 5.90 | 5.02  | 6.46  | ---   | 10.09 | 12.28 | 1.81 | 2.20 | 1.18 | .92  | .67  |
| 17   | 1.82 | 5.65 | 4.37  | 6.49  | 7.85  | 9.19  | 13.36 | 1.73 | 3.24 | 1.34 | .87  | .72  |
| 18   | 3.29 | 4.77 | 4.55  | 6.36  | 6.88  | 8.28  | 13.52 | 1.64 | 2.40 | 2.02 | .77  | .71  |
| 19   | 2.28 | 3.76 | 9.58  | 6.05  | 5.90  | 8.07  | 13.29 | 1.56 | 1.73 | 1.70 | .72  | .68  |
| 20   | 1.49 | 3.28 | 12.73 | 5.82  | 5.00  | 8.40  | 12.67 | 1.50 | 1.48 | 1.36 | .71  | .67  |
| 21   | 1.05 | 3.04 | 14.06 | 6.10  | 4.50  | 9.45  | 11.71 | 1.43 | 1.60 | 1.14 | .82  | .66  |
| 22   | .85  | 2.83 | 14.60 | 6.01  | 4.00  | 9.35  | 10.77 | 1.38 | 1.92 | 1.04 | .75  | .81  |
| 23   | .79  | 2.89 | 14.42 | 5.94  | 3.83  | 8.35  | 9.83  | 1.35 | 1.76 | .90  | .84  | .96  |
| 24   | .78  | 3.12 | 14.17 | 5.98  | ---   | 7.28  | 9.47  | 1.31 | 1.40 | .83  | .72  | .97  |
| 25   | .73  | 2.61 | 13.96 | 5.96  | ---   | 6.68  | 10.34 | 1.27 | 1.35 | .76  | .68  | .77  |
| 26   | .72  | 2.16 | 13.53 | 7.97  | 4.14  | 8.06  | 9.48  | 1.23 | 1.43 | .78  | .68  | .68  |
| 27   | .70  | 2.02 | 13.10 | 10.81 | 3.90  | 10.12 | 7.62  | 1.20 | 1.72 | .75  | .71  | .64  |
| 28   | .78  | 2.26 | 12.56 | 12.39 | 4.12  | 11.38 | 7.61  | 1.19 | 1.98 | .74  | .69  | .78  |
| 29   | 1.01 | 2.34 | 11.97 | ---   | ---   | 12.09 | 8.43  | 1.32 | 1.62 | .76  | 1.07 | .73  |
| 30   | .93  | 2.14 | 11.06 | 14.67 | ---   | 12.48 | 8.32  | 1.48 | 1.25 | .87  | 1.20 | .84  |
| 31   | .93  | ---  | 10.01 | 15.15 | ---   | 12.62 | ---   | 1.47 | ---  | 1.24 | 1.06 | ---  |
| MEAN | 1.52 | 2.86 | 8.00  | ---   | ---   | 9.11  | 9.99  | 2.54 | 1.71 | 1.07 | 1.24 | .94  |
| MAX  | 3.60 | 5.98 | 14.60 | ---   | ---   | 13.92 | 13.52 | 7.72 | 3.24 | 2.20 | 2.40 | 2.12 |
| MIN  | .62  | .93  | 2.45  | ---   | ---   | 2.99  | 4.26  | 1.19 | 1.11 | .74  | .68  | .64  |

## HYDROLOGIC-DATA STATION RECORDS

## PEARL RIVER BASIN

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 right bank on downstream side 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 55.00 ft above sea level (levels by Corps of Engineers). Prior to July 29, 1954, nonrecording gage at same site and datum.

REMARKS.-- No estimated daily discharge. Records good. Several measurements of water temperature were made during the year.

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 1995 TO SEPTEMBER 1996

## MEAN VALUES

| DAY   | OCT   | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 1     | 2130  | 2800   | 3910   | 22300  | 34400  | 7830   | 28700  | 12500  | 3020  | 2480  | 2430  | 2330  |
| 2     | 2090  | 3070   | 4370   | 17600  | 35800  | 6290   | 29100  | 11000  | 3160  | 2310  | 2710  | 2470  |
| 3     | 2110  | 3750   | 5330   | 13200  | 36600  | 5940   | 28600  | 9490   | 3780  | 2210  | 3070  | 2890  |
| 4     | 2350  | 3980   | 5910   | 11500  | 37600  | 5550   | 27700  | 7900   | 3660  | 2140  | 3330  | 2820  |
| 5     | 2710  | 3460   | 5540   | 12500  | 40200  | 5070   | 26800  | 6300   | 3690  | 2080  | 3130  | 2600  |
| 6     | 3290  | 3170   | 4910   | 11800  | 44500  | 4700   | 26600  | 5130   | 3610  | 2050  | 2890  | 2460  |
| 7     | 4400  | 3230   | 4500   | 10300  | 49000  | 5290   | 25200  | 4460   | 3210  | 2020  | 2670  | 2380  |
| 8     | 4520  | 3280   | 4940   | 9510   | 52100  | 10400  | 22800  | 4180   | 2980  | 2010  | 2940  | 2330  |
| 9     | 4720  | 3230   | 6830   | 9680   | 53200  | 17000  | 18000  | 4370   | 3240  | 2060  | 2970  | 2260  |
| 10    | 4490  | 3160   | 7920   | 10800  | 52100  | 22400  | 13400  | 4290   | 3300  | 2050  | 2930  | 2170  |
| 11    | 3990  | 4050   | 8000   | 11300  | 49000  | 26300  | 10300  | 4060   | 2870  | 2040  | 3140  | 2040  |
| 12    | 3530  | 4750   | 8540   | 11200  | 44400  | 28800  | 8280   | 3840   | 2670  | 2020  | 2950  | 1960  |
| 13    | 3210  | 5010   | 8690   | 10800  | 38900  | 30200  | 7010   | 3550   | 2600  | 2070  | 2800  | 1910  |
| 14    | 2980  | 6600   | 8690   | 10400  | 34400  | 30000  | 7070   | 3330   | 2710  | 2640  | 2500  | 1870  |
| 15    | 2930  | 8060   | 8590   | 10100  | 27900  | 26900  | 9870   | 3210   | 3100  | 3070  | 2250  | 1850  |
| 16    | 2890  | 8380   | 8050   | 10000  | 20300  | 22000  | 15400  | 3140   | 3170  | 2800  | 2120  | 1890  |
| 17    | 2810  | 8370   | 7310   | 10100  | 14900  | 19300  | 21100  | 3030   | 3750  | 2690  | 2080  | 1920  |
| 18    | 3450  | 7950   | 7560   | 10200  | 11600  | 18400  | 25700  | 2930   | 4130  | 2750  | 2030  | 1930  |
| 19    | 4400  | 6820   | 12600  | 10000  | 9520   | 15700  | 28400  | 2860   | 3610  | 2960  | 1970  | 1910  |
| 20    | 3880  | 5710   | 20200  | 9550   | 8780   | 13700  | 29100  | 2780   | 3100  | 2790  | 1930  | 1880  |
| 21    | 3230  | 5130   | 25500  | 9280   | 8190   | 13400  | 27900  | 2710   | 2850  | 2520  | 1950  | 1940  |
| 22    | 2830  | 4900   | 29400  | 9440   | 6630   | 14500  | 25000  | 2650   | 2900  | 2310  | 2000  | 2030  |
| 23    | 2620  | 4670   | 32200  | 9370   | 5800   | 14200  | 21600  | 2600   | 3120  | 2200  | 1950  | 2170  |
| 24    | 2530  | 4690   | 33900  | 9490   | 5290   | 12100  | 18600  | 2560   | 3010  | 2230  | 1960  | 2190  |
| 25    | 2470  | 4820   | 34700  | 9840   | 5160   | 10500  | 17200  | 2510   | 2730  | 2140  | 1890  | 2130  |
| 26    | 2420  | 4470   | 34700  | 10600  | 5250   | 11300  | 17300  | 2470   | 2630  | 2080  | 1870  | 2010  |
| 27    | 2410  | 4060   | 34100  | 17900  | 5230   | 13300  | 15800  | 2420   | 2650  | 2100  | 1900  | 1940  |
| 28    | 2430  | 3860   | 33000  | 26200  | 5450   | 17000  | 12100  | 2390   | 2820  | 2070  | 1970  | 1970  |
| 29    | 2490  | 3940   | 31400  | 30000  | 7970   | 20500  | 11400  | 2590   | 2940  | 2000  | 1970  | 2050  |
| 30    | 2630  | 4000   | 29300  | 31800  | ---    | 24700  | 12500  | 3240   | 2750  | 1980  | 2220  | 2030  |
| 31    | 2710  | ---    | 26300  | 33100  | ---    | 27800  | ---    | 3410   | ---   | 2080  | 2390  | ---   |
| TOTAL | 95650 | 143370 | 496890 | 429860 | 750170 | 501070 | 588530 | 131900 | 93760 | 70950 | 74910 | 64330 |
| MEAN  | 3085  | 4779   | 16030  | 13870  | 25870  | 16160  | 19620  | 4255   | 3125  | 2289  | 2416  | 2144  |
| MAX   | 4720  | 8380   | 34700  | 33100  | 53200  | 30200  | 29100  | 12500  | 4130  | 3070  | 3330  | 2890  |
| MIN   | 2090  | 2800   | 3910   | 9280   | 5160   | 4700   | 7010   | 2390   | 2600  | 1980  | 1870  | 1850  |
| CFSM  | .47   | .73    | 2.44   | 2.11   | 3.94   | 2.46   | 2.98   | .65    | .48   | .35   | .37   | .33   |
| IN.   | .54   | .81    | 2.81   | 2.43   | 4.25   | 2.84   | 3.33   | .75    | .53   | .40   | .42   | .36   |



LOCATION.--Lat 31°10'37", long 90°16'48", in 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.

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.--Estimated daily discharges: Dec. 5-7, 13-19, Jan. 31, Feb. 1-2, 14-29, Mar. 1-4, May 22-28. Records fair except for periods of estimated daily discharge, which are poor. Telemeter and 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) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Dec. 18 | ---- | *unknown                          | *unknown            | Jan. 27 | 0900 | 6,030                             | 14.24               |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL  | AUG   | SEP  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|
| 1     | 326   | 376   | 366   | 486   | e1400 | e370  | 1010  | 514   | 391   | 263  | 479   | 345  |
| 2     | 327   | 395   | 364   | 512   | e1100 | e360  | 846   | 468   | 437   | 259  | 875   | 347  |
| 3     | 374   | 474   | 364   | 522   | 3200  | e350  | 670   | 433   | 717   | 254  | 720   | 333  |
| 4     | 440   | 461   | 371   | 563   | 2750  | e330  | 593   | 412   | 669   | 251  | 408   | 335  |
| 5     | 426   | 433   | e400  | 502   | 2510  | 407   | 550   | 395   | 421   | 247  | 358   | 345  |
| 6     | 393   | 400   | e450  | 475   | 1120  | 1500  | 1340  | 382   | 339   | 245  | 365   | 295  |
| 7     | 359   | 416   | e540  | 456   | 831   | 1200  | 1640  | 372   | 309   | 243  | 590   | 289  |
| 8     | 346   | 586   | 704   | 457   | 719   | 3130  | 1030  | 359   | 319   | 253  | 784   | 297  |
| 9     | 338   | 459   | 686   | 460   | 657   | 1820  | 766   | 367   | 379   | 246  | 488   | 300  |
| 10    | 336   | 415   | 728   | 449   | 592   | 975   | 648   | 349   | 341   | 304  | 375   | 334  |
| 11    | 339   | 413   | 619   | 450   | 552   | 730   | 576   | 353   | 302   | 272  | 380   | 339  |
| 12    | 337   | 403   | 516   | 448   | 511   | 628   | 536   | 350   | 286   | 250  | 414   | 304  |
| 13    | 349   | 473   | e470  | 442   | 483   | 570   | 816   | 351   | 283   | 256  | 371   | 259  |
| 14    | 402   | 429   | e431  | 438   | e460  | 537   | 1670  | 334   | 373   | 345  | 344   | 252  |
| 15    | 390   | 392   | e410  | 431   | e440  | 502   | 2870  | 322   | 869   | 395  | 321   | 249  |
| 16    | 371   | 379   | e460  | 426   | e410  | 483   | 3470  | 314   | 791   | 349  | 304   | 261  |
| 17    | 358   | 370   | e540  | 421   | e380  | 480   | 3240  | 306   | 445   | 389  | 294   | 273  |
| 18    | 346   | 363   | e9000 | 426   | e360  | 617   | 1620  | 301   | 344   | 313  | 291   | 244  |
| 19    | 340   | 362   | e6000 | 424   | e420  | 807   | 866   | 297   | 349   | 329  | 308   | 241  |
| 20    | 339   | 372   | 4010  | 423   | e620  | 669   | 716   | 289   | 591   | 317  | 311   | 236  |
| 21    | 338   | 374   | 3400  | 428   | e580  | 575   | 623   | 285   | 390   | 295  | 309   | 259  |
| 22    | 335   | 366   | 1680  | 423   | e500  | 520   | 554   | e290  | 340   | 290  | 306   | 257  |
| 23    | 334   | 362   | 831   | 423   | e420  | 488   | 1010  | e295  | 312   | 285  | 300   | 243  |
| 24    | 335   | 372   | 672   | 472   | e360  | 471   | 1610  | e290  | 405   | 261  | 312   | 235  |
| 25    | 334   | 366   | 596   | 546   | e320  | 882   | 1590  | e280  | 377   | 262  | 313   | 227  |
| 26    | 332   | 364   | 549   | 1050  | e330  | 1790  | 887   | e270  | 381   | 277  | 324   | 223  |
| 27    | 351   | 359   | 518   | 5180  | e360  | 1620  | 836   | e260  | 378   | 279  | 331   | 241  |
| 28    | 410   | 358   | 497   | 3660  | e380  | 1060  | 700   | e264  | 315   | 282  | 383   | 284  |
| 29    | 378   | 360   | 480   | 3880  | e375  | 761   | 566   | 361   | 288   | 302  | 367   | 301  |
| 30    | 352   | 363   | 467   | 2650  | ---   | 703   | 528   | 595   | 273   | 307  | 359   | 292  |
| 31    | 375   | ---   | 460   | e2000 | ---   | 863   | ---   | 639   | ---   | 306  | 349   | ---  |
| TOTAL | 11110 | 12015 | 37579 | 29923 | 23140 | 28418 | 34377 | 11097 | 12414 | 8926 | 12433 | 8440 |
| MEAN  | 358   | 400   | 1212  | 965   | 798   | 917   | 1146  | 358   | 414   | 288  | 401   | 281  |
| MAX   | 440   | 586   | 9000  | 5180  | 3200  | 3420  | 3470  | 639   | 869   | 395  | 875   | 347  |
| MIN   | 326   | 358   | 364   | 421   | 320   | 330   | 528   | 260   | 273   | 243  | 291   | 223  |
| CFSM  | .73   | .81   | 2.46  | 1.96  | 1.62  | 1.86  | 2.33  | .73   | .84   | .59  | .82   | .57  |
| IN.   | .84   | .91   | 2.84  | 2.26  | 1.75  | 2.15  | 2.60  | .84   | .94   | .67  | .94   | .64  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1996, BY WATER YEAR (WY)

|      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 390  | 513  | 887  | 1274 | 1413 | 1364 | 1315 | 885  | 518  | 462  | 414  | 379  |
| 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  | 309  | 279  | 317  | 408  | 303  | 249  | 244  | 233  | 220  | 204  |
| (WY) | 1964 | 1957 | 1967 | 1956 | 1968 | 1955 | 1963 | 1956 | 1963 | 1969 | 1954 | 1952 |

| SUMMARY STATISTICS | FOR 1995 CALENDAR YEAR | FOR 1996 WATER YEAR | WATER YEARS 1944 - 1996 |
|--------------------|------------------------|---------------------|-------------------------|
|--------------------|------------------------|---------------------|-------------------------|

|                          |        |        |         |        |       |        |       |
|--------------------------|--------|--------|---------|--------|-------|--------|-------|
| ANNUAL TOTAL             | 385698 |        | 229872  |        |       |        |       |
| ANNUAL MEAN              | 1057   |        | 628     |        |       | 815    |       |
| HIGHEST ANNUAL MEAN      |        |        |         |        |       | 1301   | 1983  |
| LOWEST ANNUAL MEAN       |        |        |         |        |       | 394    | 1954  |
| HIGHEST DAILY MEAN       | 26900  | Apr 27 | 9000    | Dec 18 | 56900 | Apr 7  | 1983  |
| LOWEST DAILY MEAN        | 289    | Sep 4  | 223     | Sep 26 | 177   | Oct 31 | 1963  |
| LOWEST DAILY MEAN        | 293    | Sep 4  | 240     | Sep 20 | 179   | Oct 25 | 1963  |
| ANNUAL SEVEN-DAY MINIMUM |        |        |         |        |       | 64200  | Apr 7 |
| INSTANTANEOUS PEAK FLOW  |        |        | unknown | Dec 18 |       | 34.62  | Apr 7 |
| INSTANTANEOUS PEAK STAGE |        |        | unknown | Dec 18 |       | 1.66   | Apr 7 |
| ANNUAL RUNOFF (CFSM)     | 2.15   |        | 1.28    |        |       | 22.51  |       |
| ANNUAL RUNOFF (INCHES)   | 29.16  |        | 17.38   |        |       |        |       |
| 10 PERCENT EXCEEDS       | 1840   |        | 985     |        | 1590  |        |       |
| 50 PERCENT EXCEEDS       | 400    |        | 389     |        | 403   |        |       |
| 90 PERCENT EXCEEDS       | 316    |        | 281     |        | 249   |        |       |

e Estimated

## TENNESSEE RIVER MAIN STEM

03589500 TENNESSEE RIVER AT FLORENCE, AL

LOCATION.--Lat 34°47'13", long 87°40'12", in SW<sup>1</sup>/<sub>4</sub> sec. 14, T. 3 S., R. 11 W., Lauderdale County, Hydrologic Unit 06030005, on right bank at lower end of Patton Island, 137 ft upstream from Southern Railway bridge, 700 ft upstream from O'Neal Bridge on U.S. Highway 72, 1.1 mi south of Florence Post Office, 1.7 mi upstream from Cypress Creek, 2.7 mi downstream from Wilson Dam, and at mile 256.7.

DRAINAGE AREA.--30,810 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--November 1871 to September 1894 (gage heights only), October 1894 to current year.

REVISED RECORD.--WSP 473: 1897(M). WSP 1306: 1914(M), 1936 (monthly runoff). WSP 1436: 1897, 1899, 1916.

GAGE.--Water-stage recorder. Datum of gage is 401.12 ft above sea level. Prior to Apr. 1, 1926, several National Weather Service staff gages at or near Southern Railway bridge 137 ft downstream at same datum. Apr. 1, 1926, to Mar. 11, 1958, water-stage recorder on left bank at lower end of old lock and dam, 1,400 ft upstream at same datum. Since Oct. 1, 1938, auxiliary water-stage recorder 15.2 mi downstream.

REMARKS.--Records fair except those below 25,000 ft<sup>3</sup>/s, which are poor. Slight regulation since 1924 by Wilson Lake and increasing regulation since 1936 as other reservoirs have been built above station. Flow now almost completely regulated. Statistics shown below are for water years 1937 to current year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT     | NOV     | DEC     | JAN     | FEB     | MAR     | APR     | MAY     | JUN     | JUL     | AUG     | SEP     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1     | 26000   | 56900   | 76000   | 31800   | 181000  | 66400   | 79500   | 49600   | 55700   | 45700   | 52000   | 39900   |
| 2     | 44000   | 54800   | 42900   | 65200   | 165000  | 61600   | 65000   | 39900   | 41300   | 39000   | 49600   | 44700   |
| 3     | 45000   | 63500   | 30000   | 82800   | 164000  | 46100   | 61400   | 45200   | 50300   | 21600   | 32900   | 43800   |
| 4     | 46000   | 63500   | 68000   | 82800   | 163000  | 68300   | 59200   | 18100   | 57700   | 20400   | 31300   | 50000   |
| 5     | 94000   | 63900   | 71000   | 77300   | 147000  | 62200   | 41300   | 20000   | 36800   | 19400   | 55900   | 66200   |
| 6     | 166000  | 66200   | 64000   | 77500   | 114000  | 97600   | 42700   | 32300   | 53200   | 19800   | 52200   | 63600   |
| 7     | 157000  | 77300   | 68000   | 110000  | 109000  | 152000  | 29200   | 37800   | 31900   | 21000   | 54800   | 38000   |
| 8     | 130000  | 88800   | 63300   | 140000  | 109000  | 177000  | 35200   | 53700   | 27600   | 37500   | 57600   | 39000   |
| 9     | 111000  | 108000  | 64000   | 146000  | 108000  | 159000  | 36300   | 45900   | 41700   | 35400   | 38500   | 42800   |
| 10    | 88000   | 114000  | 63000   | 150000  | 107000  | 140000  | 25200   | 45300   | 51400   | 40100   | 23000   | 49600   |
| 11    | 83000   | 114000  | 72000   | 138000  | 105000  | 120000  | 34700   | 30100   | 59300   | 34300   | 17900   | 48400   |
| 12    | 65000   | 115000  | 74000   | 118000  | 128000  | 114000  | 29000   | 34100   | 65500   | 20100   | 50100   | 50900   |
| 13    | 58000   | 115000  | 64000   | 105000  | 148000  | 101000  | 20000   | 33800   | 62000   | 18800   | 63800   | 51900   |
| 14    | 53000   | 112000  | 59000   | 94500   | 153000  | 101000  | 16500   | 31400   | 73200   | 21100   | 47000   | 24500   |
| 15    | 51000   | 104000  | 62000   | 82500   | 137000  | 100000  | 23900   | 38000   | 38000   | 40700   | 50600   | 20900   |
| 16    | 52100   | 91300   | 61500   | 87000   | 116000  | 58700   | 32800   | 36500   | 37500   | 40200   | 40000   | 39500   |
| 17    | 52700   | 90500   | 50800   | 85000   | 103000  | 59900   | 32200   | 39100   | 54100   | 42400   | 35300   | 42800   |
| 18    | 57300   | 81000   | 66000   | 83600   | 99400   | 79800   | 30200   | 32500   | 49600   | 42100   | 40000   | 48900   |
| 19    | 56600   | 83400   | 73600   | 94200   | 98800   | 85500   | 24700   | 35500   | 46900   | 30300   | 44000   | 41000   |
| 20    | 59700   | 66800   | 72200   | 83400   | 94800   | 85500   | 21300   | 34900   | 43500   | 22400   | 56000   | 48000   |
| 21    | 36100   | 66300   | 78300   | 73600   | 86900   | 82300   | 79800   | 25800   | 43700   | 20700   | 68000   | 16100   |
| 22    | 26200   | 64400   | 77300   | 85700   | 84600   | 80700   | 125000  | 36700   | 27400   | 42100   | 50000   | 21000   |
| 23    | 49800   | 48300   | 75800   | 99900   | 77700   | 65900   | 140000  | 36900   | 19200   | 46700   | 52000   | 45000   |
| 24    | 47300   | 45600   | 62300   | 103000  | 50300   | 58100   | 103000  | 42600   | 44600   | 47100   | 17000   | 57000   |
| 25    | 46200   | 50400   | 57900   | 101000  | 43600   | 75700   | 63900   | 46600   | 42600   | 39700   | 14000   | 59000   |
| 26    | 41700   | 46100   | 68700   | 103000  | 64800   | 68700   | 65900   | 33300   | 42200   | 34200   | 49000   | 58000   |
| 27    | 46200   | 54000   | 70700   | 144000  | 73000   | 66800   | 44500   | 33000   | 43600   | 24900   | 48400   | 63200   |
| 28    | 41500   | 57000   | 65400   | 179000  | 63500   | 74200   | 53000   | 38200   | 43900   | 23800   | 50500   | 24300   |
| 29    | 22000   | 63900   | 60100   | 182000  | 63300   | 66200   | 54900   | 56400   | 21400   | 36500   | 44300   | 31900   |
| 30    | 61800   | 65300   | 46000   | 189000  | ---     | 62000   | 36700   | 52800   | 24100   | 38700   | 34200   | 59000   |
| 31    | 61200   | ---     | 40100   | 187000  | ---     | 74100   | ---     | 58900   | ---     | 47000   | 31400   | ---     |
| TOTAL | 1975400 | 2291200 | 1967900 | 3381800 | 3157700 | 2710300 | 1507000 | 1194900 | 1329900 | 1013700 | 1351300 | 1328900 |
| MEAN  | 63720   | 76370   | 63480   | 109100  | 108900  | 87430   | 50230   | 38550   | 44330   | 32700   | 43590   | 44300   |
| MAX   | 166000  | 115000  | 78300   | 189000  | 181000  | 177000  | 140000  | 58900   | 73200   | 47100   | 68000   | 66200   |
| MIN   | 22000   | 45600   | 30000   | 31800   | 43600   | 46100   | 16500   | 18100   | 19200   | 18800   | 14000   | 16100   |
| CFSM  | 2.07    | 2.48    | 2.06    | 3.54    | 3.53    | 2.84    | 1.63    | 1.25    | 1.44    | 1.06    | 1.41    | 1.44    |
| IN.   | 2.39    | 2.77    | 2.38    | 4.08    | 3.81    | 3.27    | 1.82    | 1.44    | 1.61    | 1.22    | 1.63    | 1.60    |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1996, BY WATER YEAR (WY)

|      | MEAN   | 33940  | 43250  | 64880  | 81960  | 88780  | 80610  | 52190  | 43050  | 36160 | 35780 | 35620 | 33080 |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| MAX  | 100800 | 136400 | 144200 | 200300 | 207300 | 163900 | 151400 | 150700 | 101300 | 81530 | 58260 | 64550 |       |
| (WY) | 1990   | 1958   | 1992   | 1974   | 1957   | 1973   | 1994   | 1984   | 1989   | 1989  | 1967  | 1950  |       |
| MIN  | 13660  | 13440  | 12840  | 13730  | 26710  | 25060  | 14010  | 13920  | 16060  | 20610 | 21680 | 14060 |       |
| (WY) | 1940   | 1940   | 1940   | 1940   | 1941   | 1988   | 1966   | 1981   | 1941   | 1988  | 1986  | 1968  |       |

| SUMMARY STATISTICS       | FOR 1995 CALENDAR YEAR | FOR 1996 WATER YEAR | WATER YEARS 1937 - 1996 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 18609790               | 23210000            |                         |
| ANNUAL MEAN              | 50990                  | 63420               | 52290                   |
| HIGHEST ANNUAL MEAN      |                        |                     | 80210                   |
| LOWEST ANNUAL MEAN       |                        |                     | 26870                   |
| HIGHEST DAILY MEAN       | 168000                 | Mar 9               | 490000                  |
| LOWEST DAILY MEAN        | 4100                   | Jun 17, 18          | 105                     |
| ANNUAL SEVEN-DAY MINIMUM | 9930                   | Apr 14              | 8600                    |
| INSTANTANEOUS PEAK FLOW  |                        |                     | 530000                  |
| INSTANTANEOUS PEAK STAGE |                        |                     | Mar 17 1973             |
| ANNUAL RUNOFF (CFSM)     | 1.65                   | 19.51               | 32.50                   |
| ANNUAL RUNOFF (INCHES)   | 22.47                  | 2.06                | 1.70                    |
| 10 PERCENT EXCEEDS       | 103000                 | 28.02               | 23.06                   |
| 50 PERCENT EXCEEDS       | 45300                  | 113000              | 100000                  |
| 90 PERCENT EXCEEDS       | 13900                  | 54800               | 39500                   |
|                          |                        | 27000               | 20500                   |

## 03592718 LITTLE YELLOW CREEK EAST NEAR BURNSVILLE, MS

LOCATION.--Lat 34°50'05", long 88°17'17", in SE1/4 sec.7, T.3 S., R.10 E., Chickasaw Meridian, Tishomingo County, Hydrologic Unit 06030005, on right bank at bridge on county road 0.2 mi northeast of Walker Siding and 2.0 mi east of Burnsville.

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 Mississippi Department of Transportation datum.

REMARKS.--Estimated daily discharges: Mar. 14 - Apr. 8, Apr. 23 - May 13. Records fair except for estimated daily discharges, which are poor.

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 (ft <sup>3</sup> /s) | Gage Height (ft) | Date                                       | Time | Discharge (ft <sup>3</sup> /s) | Gage Height (ft) |
|--------|------|--------------------------------|------------------|--------------------------------------------|------|--------------------------------|------------------|
| Mar. 6 | 0700 | *885a                          | *14.41a          | No other peak greater than base discharge. |      |                                |                  |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT   | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY   | JUN    | JUL   | AUG   | SEP   |
|-------|-------|------|------|------|------|------|------|-------|--------|-------|-------|-------|
| 1     | 5.0   | 10   | 13   | 74   | 37   | 32   | e43  | e41   | 12     | 8.2   | 28    | 8.0   |
| 2     | 5.3   | 52   | 13   | 136  | 47   | 29   | e36  | e36   | 20     | 7.8   | 13    | 17    |
| 3     | 5.8   | 22   | 13   | 64   | 42   | 26   | e33  | e33   | 18     | 7.3   | 9.1   | 14    |
| 4     | 7.8   | 14   | 14   | 39   | 30   | 25   | e30  | e30   | 16     | 6.9   | 7.4   | 11    |
| 5     | 8.0   | 13   | 14   | 33   | 27   | 33   | e28  | e32   | 15     | 6.5   | 6.4   | 10    |
| 6     | 7.2   | 19   | 14   | 72   | 26   | 511  | e27  | e27   | 13     | 6.4   | 5.7   | 8.7   |
| 7     | 6.4   | 141  | 14   | 64   | 40   | 206  | e26  | e26   | 11     | 6.5   | 5.4   | 7.6   |
| 8     | 5.7   | 42   | 19   | 38   | 139  | 111  | e26  | e25   | 303    | 27    | 6.4   | 7.1   |
| 9     | 5.8   | 20   | 43   | 33   | 147  | 47   | 25   | e22   | 88     | 19    | 18    | 7.4   |
| 10    | 5.8   | 18   | 18   | 31   | 87   | 25   | 24   | e19   | 50     | 11    | 8.6   | 7.7   |
| 11    | 5.9   | 79   | 16   | 69   | 53   | 17   | 22   | e28   | 75     | 7.9   | 7.9   | 7.8   |
| 12    | 5.5   | 31   | 15   | 94   | 38   | 13   | 22   | e24   | 116    | 7.0   | 27    | 7.8   |
| 13    | 5.5   | 21   | 15   | 45   | 33   | 12   | 22   | e21   | 49     | 6.8   | 15    | 6.7   |
| 14    | 5.6   | 18   | 15   | 36   | 32   | e12  | 22   | 20    | 28     | 6.4   | 11    | 5.9   |
| 15    | 5.7   | 16   | 17   | 31   | 31   | e14  | 23   | 18    | 22     | 10    | 9.3   | 4.0   |
| 16    | 5.7   | 16   | 91   | 29   | 28   | e12  | 22   | 17    | 19     | 7.8   | 8.0   | 5.3   |
| 17    | 5.8   | 15   | 179  | 29   | 26   | e20  | 20   | 16    | 17     | 6.7   | 7.0   | 15    |
| 18    | 5.9   | 14   | 238  | 48   | 26   | e70  | 20   | 15    | 17     | 5.9   | 6.6   | 7.7   |
| 19    | 5.8   | 14   | 180  | 58   | 31   | e170 | 58   | 14    | 16     | 5.5   | 5.9   | 5.6   |
| 20    | 5.3   | 14   | 60   | 33   | 62   | e60  | 168  | 13    | 15     | 5.3   | 5.6   | 5.0   |
| 21    | 5.3   | 13   | 39   | 32   | 36   | e35  | 162  | 12    | 14     | 5.2   | 5.4   | 19    |
| 22    | 5.3   | 13   | 32   | 30   | 31   | e30  | 103  | 11    | 13     | 5.0   | 5.3   | 16    |
| 23    | 6.2   | 19   | 28   | 28   | 28   | e26  | e250 | 11    | 12     | 15    | 5.3   | 8.2   |
| 24    | 6.8   | 20   | 26   | 169  | 25   | e24  | e160 | 10    | 12     | 8.4   | 5.1   | 6.4   |
| 25    | 6.0   | 16   | 25   | 62   | 23   | e280 | e110 | 9.6   | 11     | 33    | 5.2   | 6.1   |
| 26    | 5.8   | 15   | 24   | 85   | 23   | e100 | e80  | 9.3   | 9.9    | 12    | 4.9   | 6.1   |
| 27    | 5.5   | 14   | 23   | 127  | 25   | e62  | e64  | 8.9   | 9.1    | 7.6   | 5.3   | 26    |
| 28    | 27    | 14   | 22   | 56   | 92   | e60  | e56  | 21    | 8.9    | 7.0   | 5.5   | 28    |
| 29    | 13    | 13   | 21   | 46   | 37   | e45  | e56  | 18    | 8.6    | 6.9   | 5.7   | 17    |
| 30    | 11    | 13   | 21   | 40   | ---  | e38  | e54  | 15    | 8.2    | 13    | 6.8   | 11    |
| 31    | 10    | ---  | 60   | 43   | ---  | e40  | ---  | 13    | ---    | 19    | 11    | ---   |
| TOTAL | 270.9 | 739  | 1322 | 1774 | 1302 | 2185 | 1792 | 615.8 | 1026.7 | 308.0 | 276.8 | 313.1 |
| MEAN  | 8.74  | 24.6 | 42.6 | 57.2 | 44.9 | 70.5 | 59.7 | 19.9  | 34.2   | 9.94  | 8.93  | 10.4  |
| MAX   | 55    | 141  | 238  | 169  | 147  | 511  | 250  | 41    | 303    | 33    | 28    | 28    |
| MIN   | 5.0   | 10   | 13   | 28   | 23   | 12   | 20   | 8.9   | 8.2    | 5.0   | 4.9   | 4.0   |
| CFSM  | .35   | 1.00 | 1.73 | 2.32 | 1.82 | 2.85 | 2.42 | .80   | 1.39   | .40   | .36   | .42   |
| IN.   | .41   | 1.11 | 1.99 | 2.67 | 1.96 | 3.29 | 2.70 | .93   | 1.55   | .46   | .42   | .47   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1996, 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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 15.5 | 46.1 | 67.2 | 69.5 | 69.6 | 75.5 | 61.5 | 53.0 | 24.6 | 13.8 | 11.3 | 13.0 |      |      |      |      |      |      |      |      |      |      |      |      |
| MAX  | 40.6 | 146  | 301  | 246  | 185  | 246  | 164  | 281  | 103  | 55.7 | 67.3 | 67.6 |      |      |      |      |      |      |      |      |      |      |      |      |
| (WY) | 1976 | 1978 | 1983 | 1974 | 1990 | 1980 | 1991 | 1991 | 1989 | 1994 | 1992 | 1979 |      |      |      |      |      |      |      |      |      |      |      |      |
| MIN  | 5.09 | 11.8 | 14.8 | 13.3 | 24.7 | 28.8 | 11.3 | 6.90 | 3.88 | 4.76 | 3.50 | 4.51 |      |      |      |      |      |      |      |      |      |      |      |      |
| (WY) | 1988 | 1991 | 1981 | 1986 | 1978 | 1988 | 1986 | 1988 | 1988 | 1988 | 1988 | 1988 |      |      |      |      |      |      |      |      |      |      |      |      |

## SUMMARY STATISTICS

## FOR 1995 CALENDAR YEAR

## FOR 1996 WATER YEAR

## WATER YEARS 1973 - 1996

|                          |         |         |         |
|--------------------------|---------|---------|---------|
| ANNUAL TOTAL             | 11779.2 | 11925.3 |         |
| ANNUAL MEAN              | 32.3    | 32.6    | 43.3    |
| HIGHEST ANNUAL MEAN      |         |         | 79.2    |
| LOWEST ANNUAL MEAN       |         |         | 18.7    |
| HIGHEST DAILY MEAN       | 349     | Mar 6   | 4910    |
| LOWEST DAILY MEAN        | 3.0     | Aug 25  | 1.5     |
| ANNUAL SEVEN-DAY MINIMUM | 3.5     | Aug 23  | 2.5     |
| INSTANTANEOUS PEAK FLOW  |         |         | unknown |
| INSTANTANEOUS PEAK STAGE |         |         | 21.74   |
| INSTANTANEOUS LOW FLOW   |         |         | 1.5     |
| ANNUAL RUNOFF (CFSM)     | 1.31    |         | 1.75    |
| ANNUAL RUNOFF (INCHES)   | 17.74   |         | 23.81   |
| 10 PERCENT EXCEEDS       | 71      |         | 75      |
| 50 PERCENT EXCEEDS       | 20      |         | 18      |
| 90 PERCENT EXCEEDS       | 5.3     |         | 5.3     |

e Estimated

a May have been higher during periods of missing record.



07268000 LITTLE TALLAHATCHIE RIVER AT ETTA, MS--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972, 1996 to current year.

WATER QUALITY 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) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-------|------|-----------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| FEB   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |
| 27... | 1115 | 457                                                                   | 173                                                          | 7.3                                                                  | 17.0                                            | 8.9                                            |
| MAY   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |
| 22... | 1315 | 308                                                                   | 250                                                          | 7.9                                                                  | 23.0                                            | 11.1                                           |
| AUG   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |
| 13... | 1100 | 86                                                                    | 235                                                          | 7.8                                                                  | 28.5                                            | 8.8                                            |



## 07273100 HOTOPHA CREEK NEAR BATESVILLE, MS

LOCATION.--Lat 34°21'50", long 89°52'42", in NW 1/4 NW 1/4 sec.30, T.8 S., R.6 W., Chickasaw Meridian, Panola County, Hydrologic Unit 08030201, on left bank at upstream side 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.--Water years 1975, 1986 to current year.

## PERIOD OF DAILY RECORD.--

DISCHARGE: March 1986 to current year.

SPECIFIC CONDUCTANCE: June 1986 to February 1987.

pH: February to March 1987.

WATER TEMPERATURE: April 1986 to March 1987.

SUSPENDED SEDIMENT CONCENTRATION: March 1986 to current year.

SUSPENDED SEDIMENT DISCHARGE: March 1986 to current year.

INSTRUMENTATION.--Water-stage recorder. Datum of gage is 195.45 ft above sea level. Automatic pumping sediment sampler since March 1986.

REMARKS.--Unpublished records of daily specific conductance, pH, and water temperature during selected storm events are available in files of District office. Estimated daily discharges: Apr. 4-5, 15-16. Discharge records good except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--10 years, 57.0 ft<sup>3</sup>/s, 22.05 in/yr.

## EXTREMES FOR PERIOD OF DAILY RECORD.--

DISCHARGE: Maximum, 10,400 ft<sup>3</sup>/s, Feb. 19, 1991, gage height, 16.83 ft; minimum, 2.1 ft<sup>3</sup>/s, July 31, Aug. 1, 1986.

SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 4,460 mg/L, Feb. 3, 1990; minimum daily mean, 1 mg/L, on several days during October 1989.

SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 63,800 tons, Feb. 3, 1990; minimum daily, 0.01 ton, on several days during October 1989.

## EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum, 2,230 ft<sup>3</sup>/s, Mar. 25, gage height, 10.38 ft; minimum, 4.5 ft<sup>3</sup>/s, Oct. 21.

SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 1,060 mg/L, Mar. 25; minimum daily mean, 5 mg/L, July 10, 11.

SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 3,440 tons, Mar. 25; minimum daily, 0.10 ton, Oct. 1.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE  | TIME  | DIS-CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095)    | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010)                | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300)           | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) |                                                                           |
|-------|-------|-------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------|
|       |       |                                                                   |                                                                 |                                                                      |                                                                |                                                          |                                                                 |                                                                           |
| OCT   |       |                                                                   |                                                                 |                                                                      |                                                                |                                                          |                                                                 |                                                                           |
| 02... | 1410  | 5.1                                                               | 101                                                             | 7.1                                                                  | 31.0                                                           | 7.0                                                      | 0.010                                                           |                                                                           |
| 18... | 1100  | 5.1                                                               | 100                                                             | 7.6                                                                  | 18.5                                                           | 8.0                                                      | 0.010                                                           |                                                                           |
| 31... | 1015  | 6.9                                                               | 93                                                              | 7.4                                                                  | 15.5                                                           | 9.6                                                      | 0.010                                                           |                                                                           |
| NOV   |       |                                                                   |                                                                 |                                                                      |                                                                |                                                          |                                                                 |                                                                           |
| 27... | 1600  | 9.0                                                               | 76                                                              | 6.4                                                                  | 16.5                                                           | 9.2                                                      | 0.010                                                           |                                                                           |
| DEC   |       |                                                                   |                                                                 |                                                                      |                                                                |                                                          |                                                                 |                                                                           |
| 05... | 1055  | 12                                                                | 75                                                              | 6.7                                                                  | 14.0                                                           | 9.8                                                      | 0.010                                                           |                                                                           |
| 13... | 1100  | 11                                                                | 73                                                              | 6.8                                                                  | 11.5                                                           | 11.4                                                     | 0.020                                                           |                                                                           |
| FEB   |       |                                                                   |                                                                 |                                                                      |                                                                |                                                          |                                                                 |                                                                           |
| 28... | 1300  | 54                                                                | 67                                                              | 7.5                                                                  | 13.0                                                           | 7.5                                                      | --                                                              |                                                                           |
| APR   |       |                                                                   |                                                                 |                                                                      |                                                                |                                                          |                                                                 |                                                                           |
| 23... | 0345  | 846                                                               | --                                                              | --                                                                   | --                                                             | --                                                       | --                                                              |                                                                           |
| MAY   |       |                                                                   |                                                                 |                                                                      |                                                                |                                                          |                                                                 |                                                                           |
| 23... | 0715  | 9.5                                                               | 104                                                             | 7.6                                                                  | 21.0                                                           | 8.4                                                      | --                                                              |                                                                           |
| AUG   |       |                                                                   |                                                                 |                                                                      |                                                                |                                                          |                                                                 |                                                                           |
| 12... | 1600  | 8.9                                                               | 90                                                              | 7.1                                                                  | 34.5                                                           | 7.3                                                      | --                                                              |                                                                           |
| DATE  |       | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630)   | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665)                | PHOS-<br>PHORUS<br>ORTHO<br>TOTAL<br>(MG/L<br>AS P)<br>(70507) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L)<br>(80154)           | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDED<br>(T/DAY)<br>(80155) |
|       |       |                                                                   |                                                                 |                                                                      |                                                                |                                                          |                                                                 |                                                                           |
| OCT   |       |                                                                   |                                                                 |                                                                      |                                                                |                                                          |                                                                 |                                                                           |
| 02... | 0.020 | 0.010                                                             | <0.020                                                          | 0.010                                                                | 2.6                                                            | --                                                       | --                                                              | --                                                                        |
| 18... | 0.050 | <0.010                                                            | 0.090                                                           | 0.020                                                                | 3.6                                                            | --                                                       | --                                                              | --                                                                        |
| 31... | 0.050 | 0.030                                                             | 0.070                                                           | 0.020                                                                | 3.9                                                            | --                                                       | --                                                              | --                                                                        |
| NOV   |       |                                                                   |                                                                 |                                                                      |                                                                |                                                          |                                                                 |                                                                           |
| 27... | 0.070 | 0.020                                                             | 0.030                                                           | 0.040                                                                | 3.9                                                            | --                                                       | --                                                              | --                                                                        |
| DEC   |       |                                                                   |                                                                 |                                                                      |                                                                |                                                          |                                                                 |                                                                           |
| 05... | 0.050 | 0.010                                                             | 0.050                                                           | 0.030                                                                | 3.4                                                            | --                                                       | --                                                              | --                                                                        |
| 13... | 0.110 | 0.060                                                             | 0.050                                                           | 0.050                                                                | 4.1                                                            | --                                                       | --                                                              | --                                                                        |
| FEB   |       |                                                                   |                                                                 |                                                                      |                                                                |                                                          |                                                                 |                                                                           |
| 28... | --    | --                                                                | --                                                              | --                                                                   | --                                                             | --                                                       | --                                                              | --                                                                        |
| APR   |       |                                                                   |                                                                 |                                                                      |                                                                |                                                          |                                                                 |                                                                           |
| 23... | --    | --                                                                | --                                                              | --                                                                   | --                                                             | 1380                                                     | 3150                                                            | --                                                                        |
| MAY   |       |                                                                   |                                                                 |                                                                      |                                                                |                                                          |                                                                 |                                                                           |
| 23... | --    | --                                                                | --                                                              | --                                                                   | --                                                             | --                                                       | --                                                              | --                                                                        |
| AUG   |       |                                                                   |                                                                 |                                                                      |                                                                |                                                          |                                                                 |                                                                           |
| 12... | --    | --                                                                | --                                                              | --                                                                   | --                                                             | --                                                       | --                                                              | --                                                                        |

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| 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) |
|-------|------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|
| APR   |      |                                                                         |                                                                         |                                                                         |                                                                         |                                                                         |                                                                         |                                                                         |                                                                         |                                                                         |
| 23... | 0345 | 13                                                                      | 18                                                                      | 25                                                                      | 40                                                                      | 63                                                                      | 74                                                                      | 76                                                                      | 87                                                                      | 100                                                                     |

07273100 HOTOPHA CREEK NEAR BATESVILLE, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| 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       | 5.1                        | 7                               | .10                                 | 6.6                        | 24                              | .43                                 | 8.4                        | 31                              | .72                                 |
| 2       | 5.1                        | 14                              | .19                                 | 17                         | 117                             | 6.9                                 | 8.3                        | 32                              | .71                                 |
| 3       | 5.4                        | 18                              | .26                                 | 14                         | 53                              | 202                                 | 9.1                        | 32                              | .78                                 |
| 4       | 6.6                        | 19                              | .33                                 | 8.5                        | 17                              | .39                                 | 14                         | 32                              | 1.2                                 |
| 5       | 6.5                        | 20                              | .35                                 | 7.8                        | 13                              | .27                                 | 12                         | 32                              | 1.1                                 |
| 6       | 5.9                        | 19                              | .31                                 | 11                         | 43                              | 1.6                                 | 11                         | 29                              | .85                                 |
| 7       | 5.5                        | 18                              | .27                                 | 54                         | 252                             | 53                                  | 9.7                        | 27                              | .72                                 |
| 8       | 5.4                        | 17                              | .25                                 | 25                         | 90                              | 6.7                                 | 54                         | 262                             | 112                                 |
| 9       | 4.9                        | 16                              | .22                                 | 13                         | 39                              | 1.4                                 | 59                         | 293                             | 66                                  |
| 10      | 5.2                        | 17                              | .23                                 | 11                         | 26                              | .76                                 | 18                         | 85                              | 4.2                                 |
| 11      | 5.3                        | 18                              | .25                                 | 26                         | 149                             | 14                                  | 14                         | 59                              | 2.2                                 |
| 12      | 5.0                        | 19                              | .25                                 | 14                         | 69                              | 2.8                                 | 12                         | 48                              | 1.6                                 |
| 13      | 5.5                        | 19                              | .28                                 | 11                         | 42                              | 1.2                                 | 11                         | 39                              | 1.1                                 |
| 14      | 6.0                        | 19                              | .31                                 | 9.0                        | 34                              | .83                                 | 9.9                        | 28                              | .76                                 |
| 15      | 5.3                        | 20                              | .28                                 | 8.6                        | 32                              | .74                                 | 163                        | 254                             | 656                                 |
| 16      | 5.3                        | 20                              | .28                                 | 7.8                        | 32                              | .67                                 | 324                        | 346                             | 415                                 |
| 17      | 5.0                        | 21                              | .28                                 | 7.5                        | 29                              | .59                                 | 224                        | 404                             | 380                                 |
| 18      | 5.2                        | 45                              | .63                                 | 8.5                        | 26                              | .60                                 | 579                        | 840                             | 1640                                |
| 19      | 5.3                        | 40                              | .56                                 | 8.1                        | 23                              | .51                                 | 236                        | 213                             | 161                                 |
| 20      | 5.3                        | 29                              | .42                                 | 8.1                        | 21                              | .45                                 | 80                         | 83                              | 18                                  |
| 21      | 4.7                        | 22                              | .28                                 | 7.7                        | 18                              | .38                                 | 53                         | 70                              | 10                                  |
| 22      | 4.9                        | 19                              | .25                                 | 7.6                        | 13                              | .27                                 | 27                         | 55                              | 4.1                                 |
| 23      | 5.5                        | 18                              | .27                                 | 21                         | 72                              | 4.6                                 | 21                         | 42                              | 2.3                                 |
| 24      | 5.7                        | 17                              | .26                                 | 16                         | 43                              | 1.9                                 | 18                         | 35                              | 1.7                                 |
| 25      | 6.4                        | 18                              | .31                                 | 11                         | 32                              | .94                                 | 16                         | 30                              | 1.3                                 |
| 26      | 5.4                        | 19                              | .28                                 | 9.5                        | 30                              | .78                                 | 15                         | 29                              | 1.2                                 |
| 27      | 12                         | 88                              | 3.4                                 | 9.0                        | 31                              | .75                                 | 14                         | 28                              | 1.1                                 |
| 28      | 16                         | 62                              | 2.7                                 | 8.9                        | 31                              | .74                                 | 13                         | 24                              | .85                                 |
| 29      | 9.6                        | 48                              | 1.2                                 | 8.5                        | 31                              | .72                                 | 14                         | 32                              | 1.2                                 |
| 30      | 7.4                        | 37                              | .74                                 | 8.4                        | 31                              | .72                                 | 13                         | 27                              | .93                                 |
| 31      | 6.9                        | 29                              | .54                                 | ---                        | ---                             | ---                                 | 32                         | 119                             | 21                                  |
| JANUARY |                            |                                 | FEBRUARY                            |                            |                                 | MARCH                               |                            |                                 |                                     |
| 1       | 47                         | 137                             | 28                                  | 43                         | 36                              | 4.2                                 | 26                         | 28                              | 2.0                                 |
| 2       | 226                        | 472                             | 412                                 | 76                         | 32                              | 6.5                                 | 23                         | 26                              | 1.6                                 |
| 3       | 51                         | 78                              | 12                                  | 98                         | 34                              | 9.0                                 | 22                         | 25                              | 1.5                                 |
| 4       | 30                         | 45                              | 3.7                                 | 48                         | 37                              | 4.8                                 | 21                         | 29                              | 1.7                                 |
| 5       | 26                         | 34                              | 2.4                                 | 38                         | 40                              | 4.1                                 | 28                         | 45                              | 3.7                                 |
| 6       | 29                         | 31                              | 2.5                                 | 35                         | 41                              | 3.9                                 | 263                        | 598                             | 592                                 |
| 7       | 34                         | 30                              | 2.7                                 | 142                        | 319                             | 248                                 | 239                        | 289                             | 265                                 |
| 8       | 43                         | 70                              | 11                                  | 191                        | 183                             | 102                                 | 65                         | 84                              | 15                                  |
| 9       | 23                         | 38                              | 2.3                                 | 103                        | 57                              | 16                                  | 43                         | 61                              | 7.2                                 |
| 10      | 22                         | 29                              | 1.7                                 | 55                         | 44                              | 6.6                                 | 36                         | 57                              | 5.5                                 |
| 11      | 132                        | 322                             | 238                                 | 39                         | 32                              | 3.4                                 | 31                         | 56                              | 4.7                                 |
| 12      | 102                        | 153                             | 51                                  | 31                         | 26                              | 2.1                                 | 29                         | 56                              | 4.4                                 |
| 13      | 48                         | 48                              | 6.4                                 | 26                         | 28                              | 2.0                                 | 27                         | 61                              | 4.4                                 |
| 14      | 37                         | 40                              | 4.0                                 | 24                         | 27                              | 1.7                                 | 25                         | 58                              | 4.0                                 |
| 15      | 30                         | 33                              | 2.7                                 | 23                         | 24                              | 1.5                                 | 24                         | 53                              | 3.4                                 |
| 16      | 28                         | 27                              | 2.0                                 | 21                         | 21                              | 1.2                                 | 112                        | 292                             | 122                                 |
| 17      | 27                         | 29                              | 2.2                                 | 19                         | 19                              | 1.0                                 | 41                         | 113                             | 13                                  |
| 18      | 84                         | 172                             | 74                                  | 18                         | 19                              | .93                                 | 136                        | 307                             | 350                                 |
| 19      | 65                         | 82                              | 15                                  | 40                         | 69                              | 12                                  | 241                        | 277                             | 244                                 |
| 20      | 40                         | 57                              | 6.2                                 | 47                         | 69                              | 9.1                                 | 63                         | 76                              | 13                                  |
| 21      | 37                         | 41                              | 4.1                                 | 30                         | 40                              | 3.3                                 | 42                         | 60                              | 6.9                                 |
| 22      | 34                         | 29                              | 2.7                                 | 25                         | 27                              | 1.8                                 | 33                         | 54                              | 4.8                                 |
| 23      | 82                         | 104                             | 194                                 | 22                         | 24                              | 1.4                                 | 28                         | 52                              | 3.9                                 |
| 24      | 471                        | 679                             | 1440                                | 26                         | 63                              | 5.4                                 | 26                         | 52                              | 3.7                                 |
| 25      | 99                         | 170                             | 48                                  | 19                         | 80                              | 4.1                                 | 688                        | 1060                            | 3440                                |
| 26      | 135                        | 184                             | 98                                  | 19                         | 82                              | 4.2                                 | 114                        | 248                             | 81                                  |
| 27      | 102                        | 109                             | 34                                  | 20                         | 83                              | 4.5                                 | 55                         | 162                             | 25                                  |
| 28      | 57                         | 53                              | 8.3                                 | 57                         | 137                             | 24                                  | 33                         | 79                              | 7.1                                 |
| 29      | 48                         | 42                              | 5.5                                 | 29                         | 43                              | 3.4                                 | 26                         | 48                              | 3.4                                 |
| 30      | 42                         | 36                              | 4.1                                 | ---                        | ---                             | ---                                 | 22                         | 42                              | 2.5                                 |
| 31      | 48                         | 50                              | 6.4                                 | ---                        | ---                             | ---                                 | 22                         | 40                              | 2.3                                 |

## YAZOO RIVER BASIN

07273100 HOTOPHA CREEK NEAR BATESVILLE, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| 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) |
|-------|----------------------------|---------------------------------|-------------------------------------|----------------------------|---------------------------------|-------------------------------------|----------------------------|---------------------------------|-------------------------------------|
| APRIL |                            |                                 | MAY                                 |                            |                                 | JUNE                                |                            |                                 |                                     |
| 1     | 18                         | 34                              | 1.7                                 | 20                         | 34                              | 1.9                                 | 12                         | 89                              | 2.9                                 |
| 2     | 16                         | 32                              | 1.4                                 | 19                         | 27                              | 1.4                                 | 14                         | 85                              | 3.3                                 |
| 3     | 15                         | 32                              | 1.3                                 | 18                         | 23                              | 1.1                                 | 13                         | 80                              | 2.7                                 |
| 4     | 15                         | 31                              | 1.2                                 | 17                         | 20                              | 1.92                                | 11                         | 76                              | 2.3                                 |
| 5     | 16                         | 31                              | 1.3                                 | 17                         | 31                              | 1.4                                 | 10                         | 72                              | 2.0                                 |
| 6     | 17                         | 31                              | 1.4                                 | 16                         | 55                              | 2.3                                 | 9.8                        | 69                              | 1.8                                 |
| 7     | 16                         | 31                              | 1.3                                 | 15                         | 55                              | 2.3                                 | 13                         | 64                              | 2.2                                 |
| 8     | 15                         | 30                              | 1.2                                 | 15                         | 44                              | 1.8                                 | 66                         | 248                             | 412                                 |
| 9     | 14                         | 30                              | 1.1                                 | 14                         | 41                              | 1.5                                 | 431                        | 498                             | 865                                 |
| 10    | 13                         | 29                              | 1.0                                 | 13                         | 40                              | 1.4                                 | 62                         | 140                             | 25                                  |
| 11    | 13                         | 27                              | .96                                 | 17                         | 74                              | 3.5                                 | 30                         | 48                              | 4.1                                 |
| 12    | 13                         | 25                              | .89                                 | 16                         | 58                              | 2.5                                 | 148                        | 568                             | 453                                 |
| 13    | 14                         | 24                              | .91                                 | 14                         | 47                              | 1.7                                 | 211                        | 533                             | 605                                 |
| 14    | 14                         | 22                              | .83                                 | 13                         | 38                              | 1.3                                 | 49                         | 127                             | 19                                  |
| 15    | 14                         | 21                              | .80                                 | 12                         | 33                              | 1.1                                 | 24                         | 76                              | 5.0                                 |
| 16    | 13                         | 23                              | .80                                 | 12                         | 30                              | .93                                 | 19                         | 73                              | 3.8                                 |
| 17    | 12                         | 25                              | .80                                 | 11                         | 27                              | .79                                 | 17                         | 72                              | 3.3                                 |
| 18    | 12                         | 27                              | .85                                 | 10                         | 26                              | .72                                 | 157                        | 406                             | 357                                 |
| 19    | 13                         | 29                              | 1.0                                 | 10                         | 26                              | .69                                 | 49                         | 177                             | 28                                  |
| 20    | 14                         | 30                              | 1.1                                 | 9.7                        | 25                              | .66                                 | 25                         | 53                              | 3.7                                 |
| 21    | 453                        | 757                             | 1550                                | 10                         | 25                              | .68                                 | 20                         | 28                              | 1.6                                 |
| 22    | 288                        | 274                             | 326                                 | 9.6                        | 25                              | .64                                 | 18                         | 20                              | .97                                 |
| 23    | 562                        | 621                             | 1460                                | 9.4                        | 22                              | .56                                 | 16                         | 14                              | .62                                 |
| 24    | 125                        | 85                              | 29                                  | 9.2                        | 21                              | .51                                 | 15                         | 10                              | .41                                 |
| 25    | 71                         | 61                              | 12                                  | 8.9                        | 21                              | .49                                 | 15                         | 9                               | .34                                 |
| 26    | 43                         | 44                              | 5.2                                 | 8.8                        | 20                              | .48                                 | 15                         | 8                               | .32                                 |
| 27    | 26                         | 38                              | 2.6                                 | 21                         | 82                              | 15                                  | 14                         | 8                               | .28                                 |
| 28    | 22                         | 35                              | 2.0                                 | 86                         | 284                             | 90                                  | 13                         | 7                               | .25                                 |
| 29    | 23                         | 33                              | 2.1                                 | 21                         | 135                             | 7.7                                 | 12                         | 7                               | .23                                 |
| 30    | 24                         | 38                              | 2.4                                 | 15                         | 114                             | 4.6                                 | 12                         | 7                               | .23                                 |
| 31    | ---                        | ---                             | ---                                 | 12                         | 96                              | 3.2                                 | ---                        | ---                             | ---                                 |
| JULY  |                            |                                 | AUGUST                              |                            |                                 | SEPTEMBER                           |                            |                                 |                                     |
| 1     | 11                         | 8                               | .23                                 | 25                         | 100                             | 7.3                                 | 7.4                        | 7                               | .16                                 |
| 2     | 11                         | 8                               | .22                                 | 19                         | 78                              | 4.3                                 | 20                         | 188                             | 14                                  |
| 3     | 11                         | 8                               | .22                                 | 16                         | 36                              | 1.5                                 | 12                         | 22                              | .70                                 |
| 4     | 10                         | 7                               | .20                                 | 13                         | 28                              | .97                                 | 11                         | 12                              | .36                                 |
| 5     | 9.8                        | 7                               | .20                                 | 11                         | 22                              | .67                                 | 9.7                        | 16                              | .42                                 |
| 6     | 9.7                        | 8                               | .21                                 | 11                         | 17                              | .48                                 | 8.9                        | 17                              | .40                                 |
| 7     | 9.5                        | 9                               | .22                                 | 9.7                        | 13                              | .34                                 | 8.5                        | 15                              | .35                                 |
| 8     | 9.7                        | 7                               | .18                                 | 9.3                        | 11                              | .29                                 | 9.5                        | 384                             | 13                                  |
| 9     | 11                         | 6                               | .17                                 | 9.0                        | 11                              | .26                                 | 8.7                        | 157                             | 3.9                                 |
| 10    | 9.6                        | 5                               | .13                                 | 8.7                        | 10                              | .24                                 | 8.1                        | 58                              | 1.3                                 |
| 11    | 9.1                        | 5                               | .12                                 | 8.9                        | 11                              | .26                                 | 7.5                        | 36                              | .74                                 |
| 12    | 8.7                        | 6                               | .13                                 | 9.1                        | 11                              | .27                                 | 6.7                        | 25                              | .45                                 |
| 13    | 8.0                        | 7                               | .15                                 | 8.7                        | 11                              | .26                                 | 6.8                        | 18                              | .33                                 |
| 14    | 8.2                        | 7                               | .15                                 | 8.5                        | 10                              | .24                                 | 7.2                        | 26                              | .51                                 |
| 15    | 8.7                        | 7                               | .16                                 | 8.5                        | 10                              | .23                                 | 7.8                        | 49                              | 1.0                                 |
| 16    | 8.5                        | 7                               | .15                                 | 8.5                        | 9                               | .21                                 | 27                         | 436                             | 40                                  |
| 17    | 7.9                        | 6                               | .14                                 | 8.5                        | 10                              | .23                                 | 26                         | 328                             | 29                                  |
| 18    | 7.4                        | 6                               | .13                                 | 8.4                        | 12                              | .26                                 | 14                         | 45                              | 1.8                                 |
| 19    | 7.0                        | 6                               | .12                                 | 8.1                        | 12                              | .26                                 | 11                         | 28                              | .82                                 |
| 20    | 11                         | 104                             | 10                                  | 9.1                        | 30                              | .98                                 | 10                         | 23                              | .62                                 |
| 21    | 14                         | 144                             | 9.1                                 | 7.8                        | 13                              | .27                                 | 509                        | 534                             | 1440                                |
| 22    | 7.8                        | 16                              | .33                                 | 7.7                        | 10                              | .20                                 | 46                         | 96                              | 14                                  |
| 23    | 7.7                        | 11                              | .23                                 | 7.6                        | 10                              | .20                                 | 19                         | 39                              | 2.0                                 |
| 24    | 24                         | 114                             | 120                                 | 7.3                        | 11                              | .21                                 | 13                         | 23                              | .85                                 |
| 25    | 160                        | 443                             | 454                                 | 7.0                        | 12                              | .22                                 | 11                         | 15                              | .47                                 |
| 26    | 21                         | 70                              | 4.0                                 | 7.2                        | 10                              | .19                                 | 11                         | 16                              | .48                                 |
| 27    | 19                         | 124                             | 7.3                                 | 7.3                        | 9                               | .18                                 | 134                        | 285                             | 129                                 |
| 28    | 18                         | 72                              | 3.6                                 | 7.4                        | 10                              | .19                                 | 46                         | 203                             | 29                                  |
| 29    | 14                         | 40                              | 1.5                                 | 7.1                        | 11                              | .21                                 | 18                         | 63                              | 3.2                                 |
| 30    | 15                         | 149                             | 6.7                                 | 6.9                        | 11                              | .21                                 | 12                         | 36                              | 1.2                                 |
| 31    | 106                        | 235                             | 132                                 | 6.8                        | 11                              | .20                                 | ---                        | ---                             | ---                                 |

07274000 YOCONA RIVER NEAR OXFORD, MS

LOCATION.--Lat 34°16'23", long 89°31'11", in SE1/4 NW1/4 sec.28, T.9 S., R.3 W., Chickasaw Meridian, Lafayette County, Hydrologic Unit 08030203, near left bank on downstream end of pier cap of bridge on State Highway 7, 1.5 mi downstream from Burney Branch, 6 mi south of Oxford, and at mile 42.3.

DRAINAGE AREA.--262 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1951 to current year. May 1946 to September 1951 in reports of U. S. Army Corps of Engineers, Vicksburg district.

REVISED RECORDS.--WDR MS-84-1:1978.

GAGE.--Water-stage recorder. Datum of gage is 267.20 ft above sea level. Prior to Jan. 1, 1972, at datum 5.00 ft higher.

REMARKS.--No estimated daily discharge. Records good. U.S. Army Corps of Engineers satellite 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. 23 | 0600 | *6,950                            | *22.40              | No peak greater than base discharge. |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1     | 15   | 25   | 51    | 546   | 468   | 696   | 332   | 387  | 66   | 39   | 128  | 23   |
| 2     | 15   | 44   | 49    | 864   | 476   | 520   | 252   | 326  | 418  | 38   | 91   | 885  |
| 3     | 68   | 49   | 47    | 634   | 408   | 414   | 205   | 281  | 125  | 38   | 104  | 206  |
| 4     | 41   | 37   | 89    | 540   | 393   | 366   | 180   | 243  | 67   | 32   | 62   | 136  |
| 5     | 28   | 33   | 72    | 421   | 338   | 399   | 151   | 208  | 51   | 30   | 41   | 69   |
| 6     | 25   | 56   | 63    | 789   | 323   | 1590  | 151   | 178  | 42   | 29   | 38   | 49   |
| 7     | 23   | 258  | 59    | 789   | 528   | 1620  | 129   | 154  | 51   | 29   | 31   | 45   |
| 8     | 22   | 209  | 158   | 631   | 1150  | 1280  | 120   | 140  | 424  | 31   | 26   | 49   |
| 9     | 19   | 91   | 549   | 557   | 1320  | 934   | 100   | 141  | 850  | 49   | 24   | 47   |
| 10    | 18   | 68   | 333   | 432   | 1080  | 692   | 87    | 127  | 678  | 50   | 22   | 41   |
| 11    | 17   | 391  | 201   | 775   | 881   | 511   | 79    | 192  | 660  | 38   | 21   | 37   |
| 12    | 20   | 238  | 141   | 1050  | 666   | 439   | 76    | 157  | 480  | 30   | 26   | 31   |
| 13    | 17   | 128  | 121   | 770   | 490   | 395   | 76    | 132  | 418  | 28   | 23   | 28   |
| 14    | 16   | 92   | 105   | 699   | 413   | 366   | 73    | 131  | 482  | 30   | 19   | 27   |
| 15    | 16   | 72   | 100   | 520   | 374   | 343   | 93    | 125  | 431  | 52   | 18   | 32   |
| 16    | 19   | 64   | 2060  | 402   | 327   | 382   | 77    | 106  | 270  | 36   | 17   | 156  |
| 17    | 16   | 58   | 1410  | 357   | 291   | 371   | 67    | 89   | 179  | 36   | 25   | 83   |
| 18    | 15   | 54   | 2270  | 669   | 276   | 470   | 57    | 74   | 154  | 34   | 22   | 41   |
| 19    | 14   | 51   | 2410  | 823   | 412   | 1260  | 79    | 63   | 180  | 29   | 17   | 35   |
| 20    | 18   | 50   | 1520  | 686   | 899   | 818   | 1210  | 56   | 173  | 26   | 16   | 31   |
| 21    | 16   | 47   | 1080  | 611   | 727   | 675   | 3130  | 49   | 114  | 29   | 16   | 411  |
| 22    | 15   | 42   | 761   | 465   | 680   | 489   | 2630  | 45   | 89   | 28   | 14   | 200  |
| 23    | 14   | 98   | 569   | 489   | 517   | 403   | 6280  | 45   | 75   | 33   | 14   | 92   |
| 24    | 16   | 90   | 421   | 1510  | 407   | 361   | 2860  | 44   | 64   | 31   | 13   | 53   |
| 25    | 15   | 82   | 342   | 994   | 349   | 2650  | 1760  | 38   | 100  | 177  | 13   | 44   |
| 26    | 14   | 67   | 287   | 1310  | 315   | 1590  | 1220  | 37   | 98   | 76   | 18   | 38   |
| 27    | 108  | 60   | 248   | 1100  | 304   | 1330  | 907   | 71   | 54   | 367  | 26   | 398  |
| 28    | 111  | 55   | 220   | 835   | 1090  | 928   | 737   | 228  | 48   | 555  | 75   | 437  |
| 29    | 40   | 53   | 191   | 720   | 797   | 700   | 578   | 103  | 45   | 139  | 24   | 229  |
| 30    | 28   | 51   | 175   | 601   | ---   | 512   | 473   | 65   | 42   | 75   | 19   | 121  |
| 31    | 23   | ---  | 386   | 558   | ---   | 412   | ---   | 47   | ---  | 281  | 19   | ---  |
| TOTAL | 842  | 2713 | 16488 | 22147 | 16699 | 23916 | 24169 | 4082 | 6928 | 2495 | 1022 | 4074 |
| MEAN  | 27.2 | 90.4 | 532   | 714   | 576   | 771   | 806   | 132  | 231  | 80.5 | 33.0 | 136  |
| MAX   | 111  | 391  | 2410  | 1510  | 1320  | 2650  | 6280  | 387  | 850  | 555  | 128  | 885  |
| MIN   | 14   | 25   | 47    | 357   | 276   | 343   | 57    | 37   | 42   | 26   | 13   | 23   |
| CFSM  | .10  | .35  | 2.03  | 2.73  | 2.20  | 2.94  | 3.07  | .50  | .88  | .31  | .13  | .52  |
| IN.   | .12  | .39  | 2.34  | 3.14  | 2.37  | 3.40  | 3.43  | .58  | .98  | .35  | .15  | .58  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1996, BY WATER YEAR (WY)

|      | MEAN | 74.7 | 289  | 597  | 584  | 694  | 786  | 730  | 456  | 239  | 129  | 84.9 | 107 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| MAX  | 424  | 2145 | 3396 | 2086 | 2204 | 2558 | 2545 | 2055 | 1292 | 752  | 487  | 1239 |     |
| (WY) | 1983 | 1958 | 1983 | 1974 | 1991 | 1973 | 1991 | 1983 | 1994 | 1994 | 1982 | 1958 |     |
| MIN  | 12.0 | 12.8 | 37.7 | 44.2 | 112  | 95.5 | 84.0 | 52.7 | 19.1 | 16.6 | 8.20 | 7.15 |     |
| (WY) | 1957 | 1957 | 1956 | 1956 | 1972 | 1954 | 1986 | 1965 | 1988 | 1960 | 1954 | 1956 |     |

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1952 - 1996

| ANNUAL TOTAL             | 145210 | 125575 | 396   |
|--------------------------|--------|--------|-------|
| ANNUAL MEAN              | 398    | 343    | 877   |
| HIGHEST ANNUAL MEAN      |        |        | 1983  |
| LOWEST ANNUAL MEAN       |        |        | 123   |
| HIGHEST DAILY MEAN       | 5740   | Mar 7  | 25600 |
| LOWEST DAILY MEAN        | 14     | Oct 19 | 5.1   |
| ANNUAL SEVEN-DAY MINIMUM | 15     | Oct 17 | 5.7   |
| INSTANTANEOUS PEAK FLOW  |        |        | 44100 |
| INSTANTANEOUS PEAK STAGE |        |        | 28.72 |
| INSTANTANEOUS LOW FLOW   |        |        | 4.4   |
| ANNUAL RUNOFF (CFSM)     | 1.52   | 1.31   | 1.51  |
| ANNUAL RUNOFF (INCHES)   | 20.62  | 17.83  | 20.53 |
| 10 PERCENT EXCEEDS       | 1100   | 854    | 987   |
| 50 PERCENT EXCEEDS       | 128    | 120    | 98    |
| 90 PERCENT EXCEEDS       | 21     | 22     | 18    |

## YAZOO RIVER BASIN

07274251 TOWN CREEK AT WATER VALLEY, MS

LOCATION.--Lat 34°08'50", long 89°38'02", 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.--2.25 mi<sup>2</sup>.

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: Jan. 1, 6, Mar 10, June 19-22. Records good except for estimated daily discharges, which are poor.

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) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Jun. 13 | 0945 | *982                              | *8.81               | Jul. 27 | 1345 | 552                               | 7.40                |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN   | JUL   | AUG   | SEP   |
|-------|------|------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|
| 1     | 2.9  | 2.5  | 2.3   | e6.4  | 3.9   | 3.7   | 3.2   | 3.1  | 8.3   | 3.5   | 2.9   | 17    |
| 2     | 2.8  | 4.4  | 2.5   | 7.1   | 4.2   | 3.6   | 3.3   | 3.1  | 3.3   | 3.3   | 12    | 11    |
| 3     | 5.5  | 2.3  | 2.8   | 4.4   | 3.7   | 3.6   | 3.6   | 3.1  | 2.1   | 3.1   | 3.3   | 7.2   |
| 4     | 2.5  | 1.9  | 2.5   | 3.5   | 3.7   | 3.8   | 3.9   | 3.1  | 2.1   | 3.1   | 3.1   | 2.5   |
| 5     | 2.1  | 1.9  | 2.4   | 3.5   | 3.8   | 12    | 4.0   | 3.1  | 2.1   | 2.9   | 3.0   | 3.0   |
| 6     | 2.1  | 2.9  | 2.4   | e3.4  | 4.2   | 19    | 4.0   | 3.0  | 2.3   | 2.9   | 3.1   | 3.0   |
| 7     | 2.1  | 5.6  | 2.4   | 3.3   | 9.5   | 9.6   | 4.2   | 2.8  | 4.1   | 2.9   | 3.3   | 3.0   |
| 8     | 2.3  | 2.5  | 9.6   | 3.3   | 6.9   | 4.4   | 4.2   | 2.8  | 49    | 13    | 5.5   | 3.9   |
| 9     | 2.3  | 2.0  | 2.6   | 3.4   | 5.6   | 3.7   | 4.1   | 2.9  | 19    | 2.5   | 4.2   | 4.1   |
| 10    | 2.3  | 2.2  | 2.4   | 3.3   | 4.8   | e3.6  | 4.0   | 2.9  | 3.0   | 2.2   | 2.9   | 4.4   |
| 11    | 2.4  | 4.7  | 2.8   | 21    | 4.4   | 3.6   | 4.2   | 3.2  | 2.6   | 2.3   | 3.9   | 4.6   |
| 12    | 2.5  | 2.7  | 2.4   | 5.4   | 4.4   | 3.1   | 4.4   | 2.9  | 10    | 2.4   | 3.4   | 4.7   |
| 13    | 2.3  | 2.2  | 2.5   | 4.3   | 4.2   | 3.1   | 4.5   | 3.0  | 114   | 2.1   | 3.2   | 5.0   |
| 14    | 2.1  | 2.0  | 2.6   | 4.1   | 4.3   | 3.1   | 4.7   | 2.9  | 21    | 2.7   | 3.3   | 5.3   |
| 15    | 2.6  | 2.0  | 19    | 4.1   | 4.1   | 3.3   | 4.0   | 2.8  | 12    | 2.9   | 3.6   | 8.8   |
| 16    | 2.3  | 2.1  | 4.8   | 4.0   | 4.0   | 3.4   | 4.0   | 2.9  | 9.6   | 2.4   | 3.8   | 18    |
| 17    | 2.1  | 2.1  | 28    | 4.1   | 4.0   | 3.1   | 4.1   | 2.9  | 8.2   | 2.3   | 3.6   | 4.3   |
| 18    | 2.1  | 2.1  | 29    | 6.0   | 3.8   | 14    | 4.0   | 2.9  | 11    | 2.3   | 3.4   | 4.4   |
| 19    | 2.1  | 2.1  | 5.8   | 4.1   | 7.7   | 7.1   | 4.0   | 3.0  | e5.0  | 2.4   | 3.7   | 4.9   |
| 20    | 2.4  | 2.2  | 3.7   | 4.2   | 4.2   | 3.8   | 5.3   | 3.0  | e4.4  | 2.4   | 5.5   | 4.7   |
| 21    | 2.0  | 2.2  | 3.1   | 4.5   | 3.9   | 3.1   | 36    | 2.9  | e4.2  | 2.5   | 3.3   | 29    |
| 22    | 2.2  | 2.2  | 2.9   | 3.7   | 4.2   | 3.1   | 30    | 2.7  | e4.1  | 2.5   | 2.7   | 1.8   |
| 23    | 2.8  | 3.8  | 2.9   | 8.4   | 3.9   | 3.1   | 33    | 2.6  | 4.0   | 2.6   | 2.6   | 1.7   |
| 24    | 2.1  | 2.1  | 2.9   | 8.4   | 3.7   | 3.2   | 5.0   | 2.6  | 4.0   | 14    | 2.9   | 1.9   |
| 25    | 2.1  | 2.0  | 2.9   | 4.2   | 3.7   | 35    | 3.9   | 2.8  | 4.0   | 2.2   | 3.0   | 1.7   |
| 26    | 2.1  | 2.1  | 3.1   | 8.1   | 3.9   | 4.6   | 3.3   | 2.8  | 3.9   | 2.1   | 3.2   | 2.0   |
| 27    | 12   | 2.1  | 3.1   | 4.4   | 6.0   | 4.3   | 3.0   | 6.3  | 3.7   | 35    | 3.5   | 32    |
| 28    | 1.7  | 2.1  | 3.1   | 4.4   | 8.8   | 3.8   | 2.9   | 6.6  | 3.7   | 4.3   | 6.7   | 10    |
| 29    | 1.7  | 2.1  | 3.2   | 4.2   | 3.9   | 3.6   | 3.5   | 2.4  | 3.8   | 5.2   | 3.9   | 2.9   |
| 30    | 2.1  | 2.2  | 3.1   | 4.4   | ---   | 3.6   | 3.1   | 2.2  | 3.8   | 6.0   | 3.5   | 2.4   |
| 31    | 1.8  | ---  | 7.3   | 4.1   | ---   | 4.1   | ---   | 2.1  | ---   | 5.9   | 3.6   | ---   |
| TOTAL | 82.4 | 75.3 | 170.1 | 161.7 | 137.4 | 186.1 | 205.4 | 95.4 | 332.3 | 145.9 | 119.6 | 209.2 |
| MEAN  | 2.66 | 2.51 | 5.49  | 5.22  | 4.74  | 6.00  | 6.85  | 3.08 | 11.1  | 4.71  | 3.86  | 6.97  |
| MAX   | 12   | 5.6  | 29    | 21    | 9.5   | 35    | 36    | 6.6  | 114   | 35    | 12    | 32    |
| MIN   | 1.7  | 1.9  | 2.3   | 3.3   | 3.7   | 3.1   | 2.9   | 2.1  | 2.1   | 2.1   | 2.6   | 1.7   |
| MED   | 2.2  | 2.1  | 2.9   | 4.2   | 4.2   | 3.6   | 4.0   | 2.9  | 4.1   | 2.7   | 3.4   | 4.4   |
| CFSM  | 1.18 | 1.12 | 2.44  | 2.32  | 2.11  | 2.67  | 3.04  | 1.37 | 4.92  | 2.09  | 1.71  | 3.10  |
| IN.   | 1.36 | 1.24 | 2.81  | 2.67  | 2.27  | 3.08  | 3.40  | 1.58 | 5.49  | 2.41  | 1.98  | 3.46  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1996, BY WATER YEAR (WY)

|      | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 2.75 | 4.64 | 7.28 | 5.73 | 10.4 | 6.23 | 6.93 | 4.82 | 4.97 | 4.00 | 3.56 | 3.20 |
| MAX  | 3.96 | 14.2 | 19.4 | 13.1 | 35.5 | 10.2 | 29.5 | 9.80 | 11.1 | 7.68 | 7.22 | 6.97 |
| (WY) | 1995 | 1987 | 1991 | 1989 | 1991 | 1995 | 1991 | 1985 | 1996 | 1985 | 1985 | 1996 |
| MIN  | 1.96 | 2.51 | 2.69 | 2.65 | 2.60 | 2.96 | 2.36 | 2.30 | 2.08 | 2.29 | 1.95 | 1.98 |
| (WY) | 1990 | 1996 | 1990 | 1986 | 1986 | 1993 | 1986 | 1987 | 1988 | 1987 | 1988 | 1986 |

| SUMMARY STATISTICS       | FOR 1995 CALENDAR YEAR | FOR 1996 WATER YEAR | WATER YEARS 1985 - 1996 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 1845.82                | 1920.8              |                         |
| ANNUAL MEAN              | 5.06                   | 5.25                | 5.27                    |
| HIGHEST ANNUAL MEAN      |                        |                     | 10.2                    |
| LOWEST ANNUAL MEAN       |                        |                     | 3.39                    |
| HIGHEST DAILY MEAN       | 88                     | Mar 7               | 556                     |
| LOWEST DAILY MEAN        | 1.7                    | Oct 28              | 1.7                     |
| ANNUAL SEVEN-DAY MINIMUM | 2.1                    | Nov 13              | 1.7                     |
| INSTANTANEOUS PEAK FLOW  |                        | 982                 | 1800                    |
| INSTANTANEOUS PEAK STAGE |                        | 8.81                | 11.00                   |
| INSTANTANEOUS LOW FLOW   |                        | 1.0                 | 1.4                     |
| ANNUAL RUNOFF (CFSM)     | 2.25                   | 2.33                | 2.34                    |
| ANNUAL RUNOFF (INCHES)   | 30.52                  | 31.76               | 31.83                   |
| 10 PERCENT EXCEEDS       | 7.0                    | 8.4                 | 6.4                     |
| 50 PERCENT EXCEEDS       | 3.4                    | 3.4                 | 2.7                     |
| 90 PERCENT EXCEEDS       | 2.1                    | 2.1                 | 2.0                     |

e Estimated

a Also occurred on July 8 and Sept. 26.



## 07274252 OTOUCALOFA CREEK CANAL NEAR WATER VALLEY, MS

LOCATION.--Lat 34°08'36", 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.--Water years 1985 to current year.

PERIOD OF DAILY RECORD.--

DISCHARGE: July 1985 to current year.

SPECIFIC CONDUCTANCE: August 1985 to July 1987.

pH: October 1985 to July 1987.

WATER TEMPERATURE: June 1985 to July 1987.

DISSOLVED OXYGEN: August 1985 to July 1987.

SUSPENDED SEDIMENT CONCENTRATION: July 1985 to current year.

SUSPENDED SEDIMENT DISCHARGE: July 1985 to current year.

INSTRUMENTATION.--Water-stage recorder and crest-stage gage. Datum of gage is 250.95 ft above sea level. Automatic pumping sediment sampler since July 1985.

REMARKS.--Unpublished records of daily specific conductance, pH, water temperature, and dissolved oxygen during selected storm events are available in files of District office. No estimated daily discharges. Discharge records good.

AVERAGE DISCHARGE.--11 years, 176 ft<sup>3</sup>/s, 24.62 in/yr.

EXTREMES FOR PERIOD OF DAILY RECORD.--

DISCHARGE: Maximum, 17,700 ft<sup>3</sup>/s, Feb. 19, 1991, gage height, 18.23 ft; maximum gage height, 20.10 ft, May 1, 1991; minimum, 11 ft<sup>3</sup>/s, Sept. 29, 1987.

SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 7,520 mg/L, Nov. 30, 1991; minimum daily mean, 3 mg/L, Sept. 21-22, 1985.

SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 172,000 tons, Dec. 1, 1991; minimum daily, 0.22 ton, Sept. 22, 1985.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum, 5,970 ft<sup>3</sup>/s, Apr. 23, gage height, 13.38 ft; minimum, 16 ft<sup>3</sup>/s, Aug. 25-27.

SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 2,690 mg/L, Mar. 25; minimum daily mean, 20 mg/L, Oct. 1.

SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 15,000 tons, Apr. 23; minimum daily, 1.1 tons, Aug. 27.

## WATER QUALITY 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) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | PHOS-<br>PHORUS<br>ORTHO<br>TOTAL<br>(MG/L<br>AS P)<br>(70507) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) |
|-------|------|-----------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|
| OCT   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                 |                                                                 |                                                                 |                                                       |                                                                |                                                          |
| 02... | 1130 | 32                                                                    | 80                                                           | 6.8                                                                  | 24.0                                            | 6.6                                            | 0.020                                                           | 0.280                                                           | 0.180                                                           | 0.420                                                 | 0.360                                                          | 2.4                                                      |
| 18... | 1245 | 33                                                                    | 69                                                           | 6.2                                                                  | 19.5                                            | 8.0                                            | 0.030                                                           | 0.200                                                           | 0.290                                                           | 0.310                                                 | 0.230                                                          | 2.6                                                      |
| 30... | 1330 | 32                                                                    | 84                                                           | 7.0                                                                  | 14.0                                            | 8.8                                            | 0.100                                                           | 0.470                                                           | 0.170                                                           | 0.430                                                 | 0.380                                                          | 5.1                                                      |
| NOV   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                 |                                                                 |                                                                 |                                                       |                                                                |                                                          |
| 28... | 1000 | 37                                                                    | 68                                                           | 6.6                                                                  | 10.0                                            | 10.0                                           | 0.020                                                           | 0.360                                                           | 0.420                                                           | 0.290                                                 | 0.250                                                          | 3.3                                                      |
| DEC   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                 |                                                                 |                                                                 |                                                       |                                                                |                                                          |
| 05... | 1215 | 44                                                                    | 69                                                           | 6.6                                                                  | 14.5                                            | 9.4                                            | 0.020                                                           | 0.220                                                           | 0.200                                                           | 0.210                                                 | 0.140                                                          | 2.9                                                      |
| 13... | 0915 | 76                                                                    | 68                                                           | 6.6                                                                  | 8.5                                             | 4.0                                            | 0.010                                                           | 0.270                                                           | 0.590                                                           | 0.220                                                 | 0.210                                                          | 3.3                                                      |
| FEB   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                 |                                                                 |                                                                 |                                                       |                                                                |                                                          |
| 28... | 1430 | 764                                                                   | 49                                                           | 7.0                                                                  | 12.5                                            | 9.4                                            | --                                                              | --                                                              | --                                                              | --                                                    | --                                                             | --                                                       |
| MAY   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                 |                                                                 |                                                                 |                                                       |                                                                |                                                          |
| 20... | 1200 | 33                                                                    | 78                                                           | 7.0                                                                  | 28.0                                            | 8.8                                            | --                                                              | --                                                              | --                                                              | --                                                    | --                                                             | --                                                       |
| AUG   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                 |                                                                 |                                                                 |                                                       |                                                                |                                                          |
| 13... | 0930 | 35                                                                    | 75                                                           | 6.6                                                                  | 22.5                                            | 7.2                                            | --                                                              | --                                                              | --                                                              | --                                                    | --                                                             | --                                                       |

## YAZOO RIVER BASIN

07274252 OTOUCALOFA CREEK CANAL NEAR WATER VALLEY, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| 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       | 27                         | 20                              | 1.5                                 | 38                         | 39                              | 4.1                                 | 33                         | 36                              | 3.2                                 |
| 2       | 27                         | 26                              | 1.9                                 | 103                        | 118                             | 43                                  | 32                         | 34                              | 3.0                                 |
| 3       | 52                         | 131                             | 19                                  | 73                         | 75                              | 15                                  | 32                         | 35                              | 3.1                                 |
| 4       | 43                         | 65                              | 7.6                                 | 44                         | 45                              | 5.4                                 | 53                         | 76                              | 12                                  |
| 5       | 34                         | 47                              | 4.4                                 | 38                         | 38                              | 4.0                                 | 46                         | 89                              | 12                                  |
| 6       | 31                         | 38                              | 3.2                                 | 52                         | 58                              | 9.0                                 | 34                         | 47                              | 4.3                                 |
| 7       | 30                         | 47                              | 3.8                                 | 113                        | 158                             | 56                                  | 33                         | 84                              | 7.9                                 |
| 8       | 29                         | 62                              | 4.9                                 | 87                         | 107                             | 27                                  | 149                        | 791                             | 852                                 |
| 9       | 31                         | 80                              | 6.7                                 | 49                         | 74                              | 9.7                                 | 242                        | 781                             | 705                                 |
| 10      | 33                         | 67                              | 6.0                                 | 43                         | 47                              | 5.4                                 | 81                         | 84                              | 19                                  |
| 11      | 31                         | 46                              | 3.3                                 | 191                        | 233                             | 145                                 | 60                         | 57                              | 9.3                                 |
| 12      | 28                         | 44                              | 4.2                                 | 86                         | 58                              | 14                                  | 55                         | 41                              | 6.2                                 |
| 13      | 31                         | 50                              | 4.3                                 | 57                         | 44                              | 6.7                                 | 49                         | 33                              | 4.4                                 |
| 14      | 30                         | 53                              | 4.8                                 | 45                         | 41                              | 5.0                                 | 42                         | 46                              | 5.6                                 |
| 15      | 30                         | 59                              | 5.3                                 | 46                         | 47                              | 5.8                                 | 211                        | 1080                            | 3700                                |
| 16      | 30                         | 65                              | 5.5                                 | 42                         | 42                              | 4.7                                 | 834                        | 2010                            | 6830                                |
| 17      | 30                         | 68                              | 5.5                                 | 40                         | 37                              | 4.0                                 | 968                        | 1630                            | 5830                                |
| 18      | 29                         | 82                              | 6.4                                 | 38                         | 34                              | 3.5                                 | 1360                       | 1010                            | 3180                                |
| 19      | 25                         | 74                              | 5.1                                 | 37                         | 31                              | 3.1                                 | 789                        | 261                             | 773                                 |
| 20      | 26                         | 48                              | 3.3                                 | 37                         | 30                              | 3.0                                 | 213                        | 89                              | 51                                  |
| 21      | 24                         | 35                              | 2.3                                 | 34                         | 32                              | 3.0                                 | 137                        | 76                              | 28                                  |
| 22      | 28                         | 57                              | 4.5                                 | 33                         | 34                              | 3.0                                 | 109                        | 56                              | 17                                  |
| 23      | 26                         | 45                              | 3.2                                 | 67                         | 89                              | 19                                  | 95                         | 43                              | 11                                  |
| 24      | 25                         | 55                              | 3.8                                 | 58                         | 70                              | 11                                  | 85                         | 42                              | 9.7                                 |
| 25      | 25                         | 47                              | 3.2                                 | 43                         | 37                              | 4.3                                 | 80                         | 42                              | 9.1                                 |
| 26      | 26                         | 34                              | 2.4                                 | 38                         | 33                              | 3.4                                 | 74                         | 42                              | 8.3                                 |
| 27      | 195                        | 1290                            | 1140                                | 40                         | 39                              | 4.5                                 | 71                         | 39                              | 7.5                                 |
| 28      | 102                        | 361                             | 140                                 | 38                         | 41                              | 4.2                                 | 64                         | 37                              | 6.4                                 |
| 29      | 43                         | 79                              | 9.3                                 | 33                         | 42                              | 3.7                                 | 60                         | 39                              | 6.2                                 |
| 30      | 40                         | 79                              | 9.0                                 | 31                         | 47                              | 4.0                                 | 61                         | 45                              | 7.5                                 |
| 31      | 36                         | 53                              | 5.1                                 | ---                        | ---                             | ---                                 | 210                        | 285                             | 216                                 |
| JANUARY |                            |                                 | FEBRUARY                            |                            |                                 | MARCH                               |                            |                                 |                                     |
| 1       | 271                        | 574                             | 868                                 | 104                        | 41                              | 12                                  | 139                        | 88                              | 34                                  |
| 2       | 445                        | 809                             | 1290                                | 132                        | 166                             | 60                                  | 114                        | 51                              | 16                                  |
| 3       | 162                        | 103                             | 46                                  | 100                        | 107                             | 30                                  | 94                         | 86                              | 22                                  |
| 4       | 105                        | 54                              | 16                                  | 81                         | 95                              | 22                                  | 84                         | 141                             | 32                                  |
| 5       | 88                         | 41                              | 9.7                                 | 74                         | 87                              | 19                                  | 131                        | 156                             | 84                                  |
| 6       | 407                        | 523                             | 806                                 | 79                         | 69                              | 15                                  | 519                        | 795                             | 1430                                |
| 7       | 270                        | 187                             | 169                                 | 272                        | 525                             | 727                                 | 557                        | 648                             | 1180                                |
| 8       | 134                        | 55                              | 20                                  | 508                        | 649                             | 999                                 | 196                        | 151                             | 84                                  |
| 9       | 107                        | 41                              | 12                                  | 449                        | 396                             | 588                                 | 137                        | 64                              | 24                                  |
| 10      | 93                         | 35                              | 8.9                                 | 207                        | 119                             | 68                                  | 117                        | 105                             | 33                                  |
| 11      | 484                        | 716                             | 1740                                | 140                        | 76                              | 29                                  | 105                        | 156                             | 45                                  |
| 12      | 449                        | 163                             | 262                                 | 107                        | 51                              | 15                                  | 98                         | 102                             | 27                                  |
| 13      | 173                        | 57                              | 27                                  | 95                         | 42                              | 11                                  | 90                         | 61                              | 15                                  |
| 14      | 123                        | 45                              | 15                                  | 88                         | 35                              | 8.3                                 | 83                         | 37                              | 8.3                                 |
| 15      | 100                        | 38                              | 10                                  | 80                         | 34                              | 7.4                                 | 79                         | 33                              | 6.9                                 |
| 16      | 89                         | 37                              | 8.9                                 | 71                         | 36                              | 6.9                                 | 88                         | 33                              | 7.9                                 |
| 17      | 81                         | 37                              | 8.0                                 | 66                         | 38                              | 6.7                                 | 79                         | 34                              | 7.3                                 |
| 18      | 219                        | 646                             | 884                                 | 67                         | 40                              | 7.1                                 | 302                        | 394                             | 942                                 |
| 19      | 242                        | 340                             | 303                                 | 131                        | 198                             | 117                                 | 653                        | 886                             | 2050                                |
| 20      | 121                        | 71                              | 23                                  | 372                        | 695                             | 825                                 | 195                        | 110                             | 62                                  |
| 21      | 114                        | 51                              | 16                                  | 139                        | 110                             | 44                                  | 135                        | 73                              | 27                                  |
| 22      | 94                         | 37                              | 9.4                                 | 104                        | 50                              | 14                                  | 110                        | 75                              | 22                                  |
| 23      | 132                        | 237                             | 530                                 | 91                         | 41                              | 10                                  | 94                         | 75                              | 19                                  |
| 24      | 1130                       | 938                             | 3640                                | 75                         | 34                              | 6.9                                 | 86                         | 96                              | 23                                  |
| 25      | 247                        | 175                             | 119                                 | 67                         | 33                              | 5.9                                 | 1690                       | 2690                            | 14600                               |
| 26      | 298                        | 356                             | 358                                 | 66                         | 34                              | 6.1                                 | 415                        | 173                             | 228                                 |
| 27      | 281                        | 176                             | 157                                 | 100                        | 199                             | 142                                 | 220                        | 86                              | 51                                  |
| 28      | 153                        | 76                              | 32                                  | 781                        | 867                             | 2160                                | 179                        | 65                              | 32                                  |
| 29      | 131                        | 54                              | 19                                  | 214                        | 193                             | 116                                 | 160                        | 48                              | 21                                  |
| 30      | 123                        | 44                              | 15                                  | ---                        | ---                             | ---                                 | 141                        | 42                              | 16                                  |
| 31      | 120                        | 37                              | 12                                  | ---                        | ---                             | ---                                 | 131                        | 40                              | 14                                  |

## 07274252 OTOUCALOFA CREEK CANAL NEAR WATER VALLEY, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| 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) |
|-------|----------------------------|---------------------------------|-------------------------------------|----------------------------|---------------------------------|-------------------------------------|----------------------------|---------------------------------|-------------------------------------|
| APRIL |                            |                                 | MAY                                 |                            |                                 | JUNE                                |                            |                                 |                                     |
| 1     | 109                        | 38                              | 11                                  | 96                         | 41                              | 11                                  | 77                         | 162                             | 129                                 |
| 2     | 96                         | 36                              | 9.5                                 | 84                         | 37                              | 8.4                                 | 305                        | 490                             | 480                                 |
| 3     | 90                         | 34                              | 8.4                                 | 75                         | 36                              | 7.2                                 | 81                         | 110                             | 25                                  |
| 4     | 86                         | 31                              | 7.3                                 | 67                         | 35                              | 6.4                                 | 52                         | 69                              | 9.7                                 |
| 5     | 83                         | 29                              | 6.4                                 | 61                         | 32                              | 5.2                                 | 42                         | 45                              | 5.2                                 |
| 6     | 83                         | 26                              | 5.9                                 | 58                         | 30                              | 4.7                                 | 37                         | 35                              | 3.5                                 |
| 7     | 80                         | 27                              | 5.8                                 | 55                         | 35                              | 5.2                                 | 42                         | 60                              | 7.0                                 |
| 8     | 75                         | 28                              | 5.7                                 | 54                         | 40                              | 5.9                                 | 286                        | 661                             | 1580                                |
| 9     | 70                         | 29                              | 5.5                                 | 49                         | 41                              | 5.5                                 | 513                        | 1160                            | 3070                                |
| 10    | 66                         | 29                              | 5.2                                 | 46                         | 39                              | 4.8                                 | 112                        | 95                              | 30                                  |
| 11    | 64                         | 30                              | 5.1                                 | 55                         | 63                              | 9.6                                 | 84                         | 73                              | 17                                  |
| 12    | 62                         | 32                              | 5.4                                 | 58                         | 68                              | 11                                  | 385                        | 542                             | 1260                                |
| 13    | 66                         | 32                              | 5.7                                 | 48                         | 40                              | 5.3                                 | 1100                       | 1430                            | 9260                                |
| 14    | 65                         | 31                              | 5.5                                 | 45                         | 35                              | 4.3                                 | 284                        | 229                             | 189                                 |
| 15    | 77                         | 30                              | 6.3                                 | 42                         | 38                              | 4.3                                 | 152                        | 115                             | 48                                  |
| 16    | 63                         | 33                              | 5.6                                 | 40                         | 40                              | 4.4                                 | 117                        | 65                              | 21                                  |
| 17    | 56                         | 37                              | 5.6                                 | 38                         | 43                              | 4.4                                 | 99                         | 40                              | 11                                  |
| 18    | 54                         | 42                              | 6.1                                 | 38                         | 40                              | 4.1                                 | 94                         | 44                              | 11                                  |
| 19    | 56                         | 44                              | 6.6                                 | 35                         | 36                              | 3.3                                 | 96                         | 43                              | 11                                  |
| 20    | 157                        | 188                             | 152                                 | 33                         | 29                              | 2.6                                 | 85                         | 39                              | 8.9                                 |
| 21    | 1690                       | 1610                            | 10900                               | 32                         | 28                              | 2.4                                 | 78                         | 35                              | 7.5                                 |
| 22    | 1100                       | 1340                            | 8170                                | 31                         | 29                              | 2.5                                 | 74                         | 35                              | 7.0                                 |
| 23    | 2690                       | 1560                            | 15000                               | 30                         | 28                              | 2.3                                 | 69                         | 35                              | 6.5                                 |
| 24    | 645                        | 429                             | 780                                 | 29                         | 27                              | 2.1                                 | 65                         | 35                              | 6.1                                 |
| 25    | 366                        | 183                             | 185                                 | 27                         | 26                              | 1.9                                 | 63                         | 35                              | 5.9                                 |
| 26    | 241                        | 101                             | 67                                  | 27                         | 25                              | 1.9                                 | 64                         | 34                              | 5.9                                 |
| 27    | 164                        | 68                              | 30                                  | 47                         | 229                             | 55                                  | 59                         | 33                              | 5.3                                 |
| 28    | 127                        | 62                              | 21                                  | 146                        | 906                             | 502                                 | 55                         | 32                              | 4.8                                 |
| 29    | 121                        | 59                              | 19                                  | 56                         | 127                             | 20                                  | 54                         | 27                              | 3.9                                 |
| 30    | 119                        | 55                              | 18                                  | 39                         | 53                              | 5.7                                 | 52                         | 22                              | 3.1                                 |
| 31    | ---                        | ---                             | ---                                 | 35                         | 34                              | 3.3                                 | ---                        | ---                             | ---                                 |
| JULY  |                            |                                 | AUGUST                              |                            |                                 | SEPTEMBER                           |                            |                                 |                                     |
| 1     | 52                         | 22                              | 3.0                                 | 68                         | 61                              | 11                                  | 22                         | 41                              | 6.0                                 |
| 2     | 50                         | 40                              | 5.3                                 | 307                        | 816                             | 1190                                | 788                        | 905                             | 3240                                |
| 3     | 47                         | 31                              | 3.9                                 | 153                        | 153                             | 79                                  | 104                        | 134                             | 36                                  |
| 4     | 45                         | 28                              | 3.5                                 | 68                         | 70                              | 13                                  | 63                         | 79                              | 14                                  |
| 5     | 44                         | 29                              | 3.4                                 | 51                         | 39                              | 5.5                                 | 45                         | 48                              | 5.9                                 |
| 6     | 42                         | 29                              | 3.3                                 | 54                         | 44                              | 7.6                                 | 37                         | 42                              | 4.2                                 |
| 7     | 41                         | 30                              | 3.2                                 | 50                         | 50                              | 6.7                                 | 33                         | 39                              | 3.4                                 |
| 8     | 140                        | 264                             | 247                                 | 41                         | 35                              | 3.9                                 | 31                         | 36                              | 3.0                                 |
| 9     | 160                        | 248                             | 133                                 | 60                         | 71                              | 13                                  | 32                         | 34                              | 2.9                                 |
| 10    | 64                         | 60                              | 10                                  | 38                         | 35                              | 3.6                                 | 29                         | 32                              | 2.4                                 |
| 11    | 50                         | 45                              | 6.1                                 | 37                         | 36                              | 4.1                                 | 27                         | 30                              | 2.1                                 |
| 12    | 47                         | 41                              | 5.2                                 | 58                         | 68                              | 13                                  | 26                         | 33                              | 2.3                                 |
| 13    | 45                         | 41                              | 4.9                                 | 34                         | 34                              | 3.1                                 | 25                         | 39                              | 2.7                                 |
| 14    | 47                         | 55                              | 7.0                                 | 30                         | 36                              | 3.0                                 | 25                         | 39                              | 2.6                                 |
| 15    | 55                         | 67                              | 9.9                                 | 28                         | 37                              | 2.8                                 | 27                         | 37                              | 2.7                                 |
| 16    | 48                         | 55                              | 7.2                                 | 27                         | 38                              | 2.7                                 | 57                         | 64                              | 11                                  |
| 17    | 43                         | 44                              | 5.1                                 | 24                         | 31                              | 2.0                                 | 45                         | 47                              | 5.9                                 |
| 18    | 40                         | 41                              | 4.4                                 | 24                         | 23                              | 1.5                                 | 33                         | 37                              | 3.2                                 |
| 19    | 38                         | 41                              | 4.2                                 | 31                         | 55                              | 4.9                                 | 36                         | 37                              | 3.8                                 |
| 20    | 37                         | 38                              | 3.8                                 | 22                         | 44                              | 2.7                                 | 30                         | 42                              | 3.4                                 |
| 21    | 48                         | 57                              | 8.0                                 | 21                         | 45                              | 2.5                                 | 588                        | 554                             | 977                                 |
| 22    | 39                         | 53                              | 5.5                                 | 19                         | 42                              | 2.2                                 | 115                        | 87                              | 31                                  |
| 23    | 37                         | 68                              | 6.8                                 | 18                         | 37                              | 1.8                                 | 53                         | 67                              | 9.7                                 |
| 24    | 374                        | 846                             | 2930                                | 17                         | 36                              | 1.7                                 | 40                         | 52                              | 5.7                                 |
| 25    | 260                        | 376                             | 347                                 | 16                         | 37                              | 1.6                                 | 36                         | 38                              | 3.7                                 |
| 26    | 93                         | 102                             | 27                                  | 16                         | 37                              | 1.6                                 | 34                         | 29                              | 2.7                                 |
| 27    | 440                        | 1090                            | 2900                                | 16                         | 26                              | 1.1                                 | 657                        | 473                             | 1210                                |
| 28    | 294                        | 466                             | 727                                 | 101                        | 211                             | 85                                  | 242                        | 283                             | 189                                 |
| 29    | 89                         | 68                              | 16                                  | 30                         | 58                              | 4.8                                 | 96                         | 73                              | 20                                  |
| 30    | 77                         | 87                              | 19                                  | 21                         | 40                              | 2.2                                 | 63                         | 50                              | 8.4                                 |
| 31    | 73                         | 68                              | 13                                  | 17                         | 28                              | 1.3                                 | ---                        | ---                             | ---                                 |

## YAZOO RIVER BASIN

07275530 PETERS (LONG) CREEK NEAR POPE, MS

LOCATION.--Lat 34°12'50", long 89°58'54", in NW 1/4 SE 1/4 sec.18, T.10 S., R.7 W., Choctaw 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.--Water years 1987 to current year.

## PERIOD OF DAILY RECORD.--

DISCHARGE: December 1986 to current year.  
 SPECIFIC CONDUCTANCE: February to April 1987.  
 pH: February to April 1987.  
 WATER TEMPERATURE: February to April 1987.  
 SUSPENDED SEDIMENT CONCENTRATION: December 1986 to current year.  
 SUSPENDED SEDIMENT DISCHARGE: December 1986 to current year.

INSTRUMENTATION.--Sutro 8200 Data Collection Platform and crest-stage gage. Datum of gage is 182.51 ft above sea level. Automatic pumping sediment sampler since December 1986.

REMARKS.--Unpublished records of daily specific conductance, pH, and water temperature during selected storm events are available in files of District office. No estimated daily discharges. Discharge records good.

AVERAGE DISCHARGE.--9 years, 124 ft<sup>3</sup>/s, 21.26 in/yr.

## EXTREMES FOR PERIOD OF DAILY RECORD.--

DISCHARGE: Maximum, 26,500 ft<sup>3</sup>/s, Feb. 3, 1990, gage height, 19.86 ft; maximum gage height, 21.13 ft, Feb. 19, 1991; minimum, 1.6 ft<sup>3</sup>/s, Sept. 8, 9, 1988.  
 SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 6,490 mg/L, Nov. 30, 1991; minimum daily mean, 1 mg/L, July 29, 1988, Dec. 8-13, 1989, Oct. 13, 14, 1991, Oct. 26, 27, 1992.  
 SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 167,000 tons, Feb. 3, 1990; minimum daily, 0.03 ton, July 29, Oct. 12, 13, 1988.

## EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum, 7,910 ft<sup>3</sup>/s, Apr. 22, gage height, 13.11 ft; minimum, 7.9 ft<sup>3</sup>/s, Oct. 2.  
 SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 1,890 mg/L, July 25; minimum daily mean, 2 mg/L, Oct. 5-7.  
 SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 9,370 tons, Sept. 21; minimum daily, 0.05 ton, Oct. 6-7.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE  | TIME | DIS-CHARGE,<br>INST. CUBIC<br>FEET PER<br>SECOND<br>(00061)     | SPE-CIFIC<br>CON-DUCT-<br>ANCE<br>(US/CM)<br>(00095)            | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010)                | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300)           | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) |                                                                          |
|-------|------|-----------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------|
|       |      |                                                                 |                                                                 |                                                                      |                                                                |                                                          |                                                                 |                                                                          |
| OCT   |      |                                                                 |                                                                 |                                                                      |                                                                |                                                          |                                                                 |                                                                          |
| 02... | 1600 | 8.3                                                             | 108                                                             | 7.5                                                                  | 30.0                                                           | 8.8                                                      | 0.010                                                           |                                                                          |
| 18... | 1130 | 8.7                                                             | 102                                                             | 7.1                                                                  | 19.0                                                           | 9.2                                                      | <0.010                                                          |                                                                          |
| 30... | 1430 | 10                                                              | 107                                                             | 7.4                                                                  | 15.5                                                           | 10.3                                                     | <0.010                                                          |                                                                          |
| NOV   |      |                                                                 |                                                                 |                                                                      |                                                                |                                                          |                                                                 |                                                                          |
| 28... | 0815 | 12                                                              | 99                                                              | 6.6                                                                  | 9.5                                                            | 10.2                                                     | <0.010                                                          |                                                                          |
| DEC   |      |                                                                 |                                                                 |                                                                      |                                                                |                                                          |                                                                 |                                                                          |
| 05... | 1130 | 13                                                              | 95                                                              | 6.8                                                                  | 15.0                                                           | 10.9                                                     | <0.010                                                          |                                                                          |
| 13... | 1445 | 12                                                              | 94                                                              | 7.0                                                                  | 14.5                                                           | 9.9                                                      | 0.010                                                           |                                                                          |
| FEB   |      |                                                                 |                                                                 |                                                                      |                                                                |                                                          |                                                                 |                                                                          |
| 28... | 0815 | 49                                                              | 83                                                              | 7.8                                                                  | 12.0                                                           | 9.8                                                      | --                                                              |                                                                          |
| APR   |      |                                                                 |                                                                 |                                                                      |                                                                |                                                          |                                                                 |                                                                          |
| 23... | 0630 | 2120                                                            | --                                                              | --                                                                   | --                                                             | --                                                       | --                                                              |                                                                          |
| MAY   |      |                                                                 |                                                                 |                                                                      |                                                                |                                                          |                                                                 |                                                                          |
| 23... | 0830 | 16                                                              | 106                                                             | 7.6                                                                  | 22.5                                                           | 8.2                                                      | --                                                              |                                                                          |
| AUG   |      |                                                                 |                                                                 |                                                                      |                                                                |                                                          |                                                                 |                                                                          |
| 12... | 1430 | 14                                                              | 97                                                              | 8.5                                                                  | 33.0                                                           | 8.3                                                      | --                                                              |                                                                          |
| DATE  |      | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665)                | PHOS-<br>PHORUS<br>ORTHO<br>TOTAL<br>(MG/L<br>AS P)<br>(70507) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) | 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) |
| OCT   |      |                                                                 |                                                                 |                                                                      |                                                                |                                                          |                                                                 |                                                                          |
| 02... |      | <0.020                                                          | 0.010                                                           | <0.020                                                               | 0.020                                                          | 1.4                                                      | --                                                              | --                                                                       |
| 18... |      | <0.020                                                          | <0.010                                                          | 0.030                                                                | 0.010                                                          | 1.1                                                      | --                                                              | --                                                                       |
| 30... |      | 0.030                                                           | 0.010                                                           | 0.100                                                                | 0.020                                                          | 3.0                                                      | --                                                              | --                                                                       |
| NOV   |      |                                                                 |                                                                 |                                                                      |                                                                |                                                          |                                                                 |                                                                          |
| 28... |      | <0.020                                                          | 0.020                                                           | 0.020                                                                | 0.030                                                          | 2.2                                                      | --                                                              | --                                                                       |
| DEC   |      |                                                                 |                                                                 |                                                                      |                                                                |                                                          |                                                                 |                                                                          |
| 05... |      | <0.020                                                          | 0.010                                                           | 0.040                                                                | 0.020                                                          | 2.1                                                      | --                                                              | --                                                                       |
| 13... |      | 0.210                                                           | 0.040                                                           | 0.060                                                                | 0.050                                                          | 3.5                                                      | --                                                              | --                                                                       |
| FEB   |      |                                                                 |                                                                 |                                                                      |                                                                |                                                          |                                                                 |                                                                          |
| 28... |      | --                                                              | --                                                              | --                                                                   | --                                                             | --                                                       | --                                                              | --                                                                       |
| APR   |      |                                                                 |                                                                 |                                                                      |                                                                |                                                          |                                                                 |                                                                          |
| 23... |      | --                                                              | --                                                              | --                                                                   | --                                                             | --                                                       | 675                                                             | 3860                                                                     |
| MAY   |      |                                                                 |                                                                 |                                                                      |                                                                |                                                          |                                                                 |                                                                          |
| 23... |      | --                                                              | --                                                              | --                                                                   | --                                                             | --                                                       | --                                                              | --                                                                       |
| AUG   |      |                                                                 |                                                                 |                                                                      |                                                                |                                                          |                                                                 |                                                                          |
| 12... |      | --                                                              | --                                                              | --                                                                   | --                                                             | --                                                       | --                                                              | --                                                                       |

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| 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) |
|-------|------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|
| APR   |      |                                                                         |                                                                         |                                                                         |                                                                         |                                                                         |                                                                         |                                                                         |                                                                         |                                                                         |
| 23... | 0630 | 14                                                                      | 20                                                                      | 27                                                                      | 43                                                                      | 76                                                                      | 93                                                                      | 94                                                                      | 97                                                                      | 100                                                                     |

07275530 PETERS (LONG) CREEK NEAR POPE, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| 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       | 9.2                        | 6                               | .14                                 | 11                         | 33                              | 1.0                                 | 12                         | 5                               | .18                                 |
| 2       | 8.8                        | 5                               | .12                                 | 24                         | 77                              | 5.1                                 | 12                         | 5                               | .16                                 |
| 3       | 11                         | 4                               | .11                                 | 14                         | 38                              | 1.5                                 | 13                         | 4                               | .16                                 |
| 4       | 11                         | 3                               | .09                                 | 11                         | 14                              | .42                                 | 14                         | 6                               | .21                                 |
| 5       | 9.5                        | 2                               | .06                                 | 10                         | 7                               | .20                                 | 13                         | 15                              | .52                                 |
| 6       | 8.9                        | 2                               | .05                                 | 15                         | 19                              | .86                                 | 12                         | 7                               | .21                                 |
| 7       | 8.5                        | 2                               | .05                                 | 155                        | 148                             | 90                                  | 11                         | 5                               | .17                                 |
| 8       | 8.7                        | 3                               | .06                                 | 31                         | 30                              | 2.6                                 | 114                        | 232                             | 214                                 |
| 9       | 8.9                        | 3                               | .07                                 | 14                         | 22                              | .80                                 | 119                        | 172                             | 86                                  |
| 10      | 8.9                        | 4                               | .08                                 | 13                         | 15                              | .50                                 | 17                         | 50                              | 2.4                                 |
| 11      | 8.8                        | 4                               | .09                                 | 95                         | 201                             | 68                                  | 13                         | 21                              | .72                                 |
| 12      | 8.9                        | 4                               | .10                                 | 20                         | 33                              | 1.9                                 | 12                         | 15                              | .48                                 |
| 13      | 9.3                        | 4                               | .10                                 | 13                         | 18                              | .67                                 | 11                         | 20                              | .58                                 |
| 14      | 9.1                        | 4                               | .11                                 | 12                         | 15                              | .49                                 | 11                         | 16                              | .46                                 |
| 15      | 8.7                        | 5                               | .11                                 | 12                         | 12                              | .39                                 | 418                        | 413                             | 2790                                |
| 16      | 8.9                        | 4                               | .11                                 | 12                         | 10                              | .32                                 | 799                        | 649                             | 2890                                |
| 17      | 8.9                        | 6                               | .13                                 | 12                         | 9                               | .27                                 | 619                        | 325                             | 765                                 |
| 18      | 9.0                        | 16                              | .39                                 | 11                         | 7                               | .22                                 | 1680                       | 693                             | 5310                                |
| 19      | 9.1                        | 9                               | .22                                 | 11                         | 6                               | .19                                 | 349                        | 184                             | 253                                 |
| 20      | 9.9                        | 4                               | .11                                 | 11                         | 6                               | .18                                 | 48                         | 57                              | 7.9                                 |
| 21      | 9.4                        | 4                               | .10                                 | 11                         | 8                               | .24                                 | 24                         | 26                              | 1.7                                 |
| 22      | 9.2                        | 4                               | .11                                 | 11                         | 28                              | .84                                 | 18                         | 16                              | .77                                 |
| 23      | 9.3                        | 9                               | .23                                 | 25                         | 48                              | 3.3                                 | 15                         | 13                              | .52                                 |
| 24      | 9.2                        | 19                              | .47                                 | 19                         | 8                               | .40                                 | 14                         | 11                              | .44                                 |
| 25      | 9.1                        | 20                              | .49                                 | 13                         | 6                               | .21                                 | 13                         | 10                              | .37                                 |
| 26      | 9.7                        | 20                              | .52                                 | 12                         | 6                               | .21                                 | 13                         | 9                               | .31                                 |
| 27      | 23                         | 70                              | 5.0                                 | 13                         | 12                              | .41                                 | 12                         | 8                               | .26                                 |
| 28      | 18                         | 14                              | .74                                 | 12                         | 11                              | .36                                 | 11                         | 6                               | .19                                 |
| 29      | 10                         | 7                               | .21                                 | 12                         | 6                               | .19                                 | 11                         | 6                               | .17                                 |
| 30      | 9.9                        | 16                              | .43                                 | 12                         | 6                               | .19                                 | 11                         | 6                               | .18                                 |
| 31      | 10                         | 11                              | .31                                 | ---                        | ---                             | ---                                 | 50                         | 55                              | 10                                  |
| JANUARY |                            |                                 | FEBRUARY                            |                            |                                 | MARCH                               |                            |                                 |                                     |
| 1       | 99                         | 149                             | 161                                 | 26                         | 47                              | 3.4                                 | 25                         | 51                              | 3.4                                 |
| 2       | 642                        | 330                             | 919                                 | 33                         | 42                              | 3.9                                 | 24                         | 49                              | 3.2                                 |
| 3       | 71                         | 94                              | 19                                  | 38                         | 42                              | 5.0                                 | 23                         | 46                              | 2.8                                 |
| 4       | 37                         | 45                              | 4.6                                 | 26                         | 80                              | 5.8                                 | 21                         | 44                              | 2.5                                 |
| 5       | 27                         | 25                              | 1.9                                 | 25                         | 63                              | 4.4                                 | 25                         | 41                              | 2.8                                 |
| 6       | 44                         | 62                              | 8.6                                 | 15                         | 41                              | 1.6                                 | 675                        | 746                             | 1910                                |
| 7       | 41                         | 66                              | 7.6                                 | 395                        | 745                             | 1350                                | 593                        | 285                             | 694                                 |
| 8       | 25                         | 39                              | 2.6                                 | 460                        | 386                             | 558                                 | 90                         | 72                              | 18                                  |
| 9       | 20                         | 29                              | 1.6                                 | 171                        | 116                             | 63                                  | 45                         | 61                              | 7.4                                 |
| 10      | 19                         | 28                              | 1.4                                 | 50                         | 61                              | 8.4                                 | 37                         | 55                              | 5.6                                 |
| 11      | 371                        | 347                             | 835                                 | 31                         | 36                              | 3.0                                 | 32                         | 51                              | 4.4                                 |
| 12      | 195                        | 97                              | 67                                  | 23                         | 23                              | 1.4                                 | 31                         | 47                              | 3.9                                 |
| 13      | 51                         | 50                              | 6.9                                 | 20                         | 23                              | 1.3                                 | 30                         | 45                              | 3.6                                 |
| 14      | 31                         | 34                              | 2.9                                 | 19                         | 25                              | 1.3                                 | 30                         | 44                              | 3.6                                 |
| 15      | 23                         | 25                              | 1.5                                 | 18                         | 25                              | 1.2                                 | 29                         | 51                              | 4.0                                 |
| 16      | 20                         | 27                              | 1.4                                 | 16                         | 21                              | .93                                 | 50                         | 86                              | 12                                  |
| 17      | 18                         | 29                              | 1.4                                 | 16                         | 22                              | .94                                 | 41                         | 74                              | 8.3                                 |
| 18      | 71                         | 146                             | 57                                  | 16                         | 24                              | 1.0                                 | 364                        | 628                             | 2540                                |
| 19      | 59                         | 51                              | 14                                  | 28                         | 166                             | 28                                  | 641                        | 634                             | 1600                                |
| 20      | 24                         | 33                              | 2.2                                 | 51                         | 262                             | 45                                  | 134                        | 75                              | 32                                  |
| 21      | 21                         | 29                              | 1.6                                 | 26                         | 68                              | 5.0                                 | 60                         | 47                              | 7.6                                 |
| 22      | 17                         | 25                              | 1.1                                 | 22                         | 48                              | 2.9                                 | 48                         | 42                              | 5.5                                 |
| 23      | 229                        | 258                             | 1540                                | 22                         | 45                              | 2.6                                 | 42                         | 41                              | 4.7                                 |
| 24      | 1250                       | 526                             | 3440                                | 20                         | 46                              | 2.5                                 | 40                         | 45                              | 5.3                                 |
| 25      | 77                         | 103                             | 24                                  | 19                         | 49                              | 2.5                                 | 2250                       | 1030                            | 9310                                |
| 26      | 335                        | 279                             | 460                                 | 19                         | 51                              | 2.6                                 | 194                        | 68                              | 36                                  |
| 27      | 187                        | 150                             | 90                                  | 20                         | 83                              | 4.9                                 | 84                         | 57                              | 13                                  |
| 28      | 44                         | 36                              | 4.2                                 | 44                         | 134                             | 16                                  | 60                         | 55                              | 8.9                                 |
| 29      | 33                         | 26                              | 2.3                                 | 29                         | 55                              | 4.3                                 | 44                         | 53                              | 6.4                                 |
| 30      | 28                         | 26                              | 2.0                                 | ---                        | ---                             | ---                                 | 37                         | 50                              | 5.0                                 |
| 31      | 32                         | 28                              | 2.4                                 | ---                        | ---                             | ---                                 | 34                         | 47                              | 4.2                                 |



## YAZOO RIVER BASIN

07275530 PETERS (LONG) CREEK NEAR POPE, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| 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     | 27                         | 45                                   | 3.3                                 | 30                         | 32                                   | 2.6                                 | 21                         | 27                                   | 1.9                                 |
| 2     | 24                         | 46                                   | 3.0                                 | 28                         | 18                                   | 1.4                                 | 22                         | 54                                   | 3.3                                 |
| 3     | 22                         | 48                                   | 2.9                                 | 27                         | 21                                   | 1.5                                 | 18                         | 22                                   | 1.0                                 |
| 4     | 21                         | 47                                   | 2.7                                 | 25                         | 25                                   | 1.7                                 | 17                         | 18                                   | .80                                 |
| 5     | 20                         | 39                                   | 2.0                                 | 24                         | 22                                   | 1.4                                 | 16                         | 16                                   | .68                                 |
| 6     | 20                         | 36                                   | 2.0                                 | 23                         | 16                                   | .99                                 | 16                         | 15                                   | .64                                 |
| 7     | 19                         | 34                                   | 1.7                                 | 22                         | 14                                   | .84                                 | 22                         | 129                                  | 8.4                                 |
| 8     | 18                         | 30                                   | 1.4                                 | 22                         | 12                                   | .72                                 | 30                         | 88                                   | 8.5                                 |
| 9     | 17                         | 19                                   | .87                                 | 20                         | 12                                   | .68                                 | 128                        | 318                                  | 155                                 |
| 10    | 17                         | 31                                   | 1.4                                 | 20                         | 13                                   | .69                                 | 26                         | 49                                   | 3.6                                 |
| 11    | 17                         | 35                                   | 1.6                                 | 23                         | 14                                   | .86                                 | 21                         | 28                                   | 1.6                                 |
| 12    | 17                         | 35                                   | 1.6                                 | 21                         | 15                                   | .87                                 | 758                        | 517                                  | 2430                                |
| 13    | 19                         | 34                                   | 1.7                                 | 20                         | 16                                   | .86                                 | 421                        | 732                                  | 1480                                |
| 14    | 17                         | 33                                   | 1.5                                 | 20                         | 16                                   | .85                                 | 68                         | 85                                   | 16                                  |
| 15    | 18                         | 32                                   | 1.6                                 | 20                         | 16                                   | .84                                 | 33                         | 61                                   | 5.5                                 |
| 16    | 16                         | 34                                   | 1.4                                 | 19                         | 15                                   | .75                                 | 28                         | 44                                   | 3.3                                 |
| 17    | 15                         | 36                                   | 1.4                                 | 18                         | 13                                   | .66                                 | 25                         | 32                                   | 2.1                                 |
| 18    | 15                         | 37                                   | 1.5                                 | 18                         | 12                                   | .60                                 | 189                        | 331                                  | 363                                 |
| 19    | 16                         | 38                                   | 1.6                                 | 17                         | 14                                   | .64                                 | 55                         | 120                                  | 24                                  |
| 20    | 131                        | 86                                   | 39                                  | 17                         | 16                                   | .72                                 | 26                         | 43                                   | 3.1                                 |
| 21    | 2150                       | 506                                  | 4400                                | 17                         | 15                                   | .69                                 | 23                         | 25                                   | 1.5                                 |
| 22    | 896                        | 214                                  | 1580                                | 17                         | 14                                   | .65                                 | 22                         | 22                                   | 1.3                                 |
| 23    | 1810                       | 485                                  | 3900                                | 16                         | 15                                   | .65                                 | 21                         | 20                                   | 1.1                                 |
| 24    | 205                        | 145                                  | 85                                  | 16                         | 15                                   | .67                                 | 20                         | 18                                   | .99                                 |
| 25    | 99                         | 67                                   | 18                                  | 16                         | 17                                   | .70                                 | 41                         | 170                                  | 47                                  |
| 26    | 66                         | 32                                   | 5.8                                 | 16                         | 19                                   | .82                                 | 33                         | 82                                   | 9.0                                 |
| 27    | 48                         | 24                                   | 3.2                                 | 17                         | 28                                   | 1.3                                 | 21                         | 27                                   | 1.6                                 |
| 28    | 41                         | 22                                   | 2.5                                 | 45                         | 173                                  | 31                                  | 20                         | 20                                   | 1.1                                 |
| 29    | 39                         | 22                                   | 2.4                                 | 20                         | 30                                   | 1.6                                 | 18                         | 20                                   | .99                                 |
| 30    | 36                         | 29                                   | 2.9                                 | 17                         | 18                                   | .84                                 | 18                         | 20                                   | .99                                 |
| 31    | ---                        | ---                                  | ---                                 | 17                         | 14                                   | .64                                 | ---                        | ---                                  | ---                                 |
| JULY  |                            |                                      | AUGUST                              |                            |                                      | SEPTEMBER                           |                            |                                      |                                     |
| 1     | 18                         | 20                                   | .99                                 | 26                         | 30                                   | 2.0                                 | 13                         | 14                                   | .49                                 |
| 2     | 19                         | 19                                   | .95                                 | 29                         | 58                                   | 4.8                                 | 18                         | 16                                   | .79                                 |
| 3     | 19                         | 17                                   | .85                                 | 17                         | 41                                   | 2.0                                 | 14                         | 32                                   | 1.2                                 |
| 4     | 19                         | 16                                   | .84                                 | 13                         | 29                                   | 1.0                                 | 35                         | 46                                   | 4.5                                 |
| 5     | 19                         | 16                                   | .83                                 | 13                         | 22                                   | .75                                 | 15                         | 26                                   | 1.0                                 |
| 6     | 19                         | 16                                   | .82                                 | 13                         | 17                                   | .58                                 | 13                         | 18                                   | .64                                 |
| 7     | 19                         | 16                                   | .84                                 | 12                         | 15                                   | .48                                 | 13                         | 17                                   | .59                                 |
| 8     | 20                         | 16                                   | .87                                 | 12                         | 16                                   | .54                                 | 13                         | 17                                   | .57                                 |
| 9     | 23                         | 15                                   | .96                                 | 13                         | 18                                   | .61                                 | 13                         | 16                                   | .57                                 |
| 10    | 18                         | 13                                   | .64                                 | 13                         | 17                                   | .57                                 | 12                         | 15                                   | .49                                 |
| 11    | 17                         | 13                                   | .61                                 | 14                         | 16                                   | .58                                 | 12                         | 14                                   | .45                                 |
| 12    | 17                         | 14                                   | .67                                 | 14                         | 18                                   | .65                                 | 11                         | 13                                   | .39                                 |
| 13    | 17                         | 16                                   | .74                                 | 13                         | 18                                   | .66                                 | 11                         | 13                                   | .39                                 |
| 14    | 17                         | 17                                   | .82                                 | 13                         | 17                                   | .61                                 | 11                         | 19                                   | .57                                 |
| 15    | 24                         | 62                                   | 4.3                                 | 13                         | 16                                   | .58                                 | 11                         | 28                                   | .85                                 |
| 16    | 17                         | 31                                   | 1.4                                 | 13                         | 16                                   | .57                                 | 49                         | 34                                   | 4.6                                 |
| 17    | 16                         | 18                                   | .79                                 | 13                         | 15                                   | .53                                 | 18                         | 23                                   | 1.1                                 |
| 18    | 15                         | 15                                   | .62                                 | 13                         | 15                                   | .50                                 | 13                         | 16                                   | .58                                 |
| 19    | 14                         | 15                                   | .57                                 | 13                         | 14                                   | .48                                 | 12                         | 14                                   | .47                                 |
| 20    | 119                        | 226                                  | 515                                 | 12                         | 14                                   | .47                                 | 12                         | 12                                   | .40                                 |
| 21    | 65                         | 179                                  | 79                                  | 12                         | 14                                   | .46                                 | 1210                       | 1220                                 | 9370                                |
| 22    | 15                         | 30                                   | 1.2                                 | 12                         | 14                                   | .46                                 | 41                         | 72                                   | 8.5                                 |
| 23    | 14                         | 23                                   | .90                                 | 12                         | 14                                   | .46                                 | 21                         | 37                                   | 2.1                                 |
| 24    | 22                         | 198                                  | 34                                  | 11                         | 14                                   | .43                                 | 16                         | 21                                   | .89                                 |
| 25    | 126                        | 1890                                 | 1020                                | 11                         | 14                                   | .43                                 | 15                         | 17                                   | .67                                 |
| 26    | 16                         | 200                                  | 9.2                                 | 11                         | 14                                   | .41                                 | 14                         | 19                                   | .83                                 |
| 27    | 79                         | 422                                  | 210                                 | 12                         | 13                                   | .41                                 | 283                        | 377                                  | 373                                 |
| 28    | 29                         | 175                                  | 17                                  | 12                         | 12                                   | .40                                 | 55                         | 73                                   | 11                                  |
| 29    | 25                         | 154                                  | 54                                  | 12                         | 13                                   | .42                                 | 20                         | 39                                   | 2.2                                 |
| 30    | 62                         | 423                                  | 108                                 | 12                         | 14                                   | .43                                 | 15                         | 22                                   | .91                                 |
| 31    | 106                        | 375                                  | 211                                 | 12                         | 14                                   | .45                                 | ---                        | ---                                  | ---                                 |

## 07277700 HICKAHALA CREEK NEAR SENATOBIA, MS

LOCATION.--Lat 34°37'54", long 89°55'30", in SE 1/4 NW 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, 1986 to current year.

## 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.--Unpublished records of daily specific conductance, pH, water temperature, and dissolved oxygen during selected storm events are available in files of District office. Estimated daily discharges: Oct. 5, 12, Feb. 19-20, 27-28, Mar. 25, 31. Discharge records fair except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--10 years, 190 ft<sup>3</sup>/s, 21.32 in/yr.

## EXTREMES FOR PERIOD OF DAILY RECORD.--

DISCHARGE: Maximum, 19,100 ft<sup>3</sup>/s, Feb. 3, 1990, gage height, 19.91 ft; minimum, 22 ft<sup>3</sup>/s, all or part of each day, July 4-11, 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, 5,120 ft<sup>3</sup>/s, Jan. 24, gage height, 15.52 ft; minimum, 29 ft<sup>3</sup>/s, part of each day May 17-23.  
 SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 2,370 mg/L, Jan. 24; minimum daily mean, 7 mg/L, Oct. 21-26.  
 SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 17,800 tons, Jan. 24; minimum daily, 0.74 ton, Oct. 23-24.

## WATER QUALITY 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) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML)<br>(31625) | STREP-<br>TOCOCCI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML)<br>(31673) |
|-------|------|-----------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| OCT   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                           |                                                                               |
| 02... | 1045 | 38                                                                    | 59                                                           | 6.8                                                                  | 22.0                                            | 8.3                                            | --                                                                        | --                                                                            |
| 18... | 0930 | 36                                                                    | 54                                                           | 7.0                                                                  | 15.0                                            | 10.2                                           | --                                                                        | --                                                                            |
| 31... | 0630 | 40                                                                    | 68                                                           | 6.8                                                                  | 14.0                                            | 8.4                                            | 440                                                                       | 370                                                                           |
| 31... | 0900 | 40                                                                    | 66                                                           | 7.2                                                                  | 14.0                                            | 10.0                                           | --                                                                        | --                                                                            |
| 31... | 0930 | 40                                                                    | 66                                                           | 7.0                                                                  | 15.0                                            | 8.6                                            | --                                                                        | --                                                                            |
| 31... | 1230 | 40                                                                    | 64                                                           | 6.9                                                                  | 17.0                                            | 8.9                                            | 520                                                                       | 160                                                                           |
| 31... | 1530 | 40                                                                    | 65                                                           | 6.9                                                                  | 19.0                                            | 8.5                                            | --                                                                        | --                                                                            |
| 31... | 1830 | 41                                                                    | 69                                                           | 7.0                                                                  | 18.0                                            | 9.1                                            | 660                                                                       | 270                                                                           |
| 31... | 2130 | 40                                                                    | 66                                                           | 7.0                                                                  | 17.0                                            | 9.2                                            | --                                                                        | --                                                                            |
| NOV   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                           |                                                                               |
| 01... | 0030 | 39                                                                    | 66                                                           | 7.0                                                                  | 17.0                                            | 9.4                                            | 640                                                                       | 360                                                                           |
| 01... | 0330 | 38                                                                    | 65                                                           | 7.0                                                                  | 17.0                                            | 9.3                                            | --                                                                        | --                                                                            |
| 01... | 0630 | 38                                                                    | 64                                                           | 7.0                                                                  | 16.5                                            | 8.3                                            | --                                                                        | 260                                                                           |
| 01... | 0930 | 38                                                                    | 64                                                           | 7.0                                                                  | 17.0                                            | 8.9                                            | --                                                                        | --                                                                            |
| 01... | 1230 | 38                                                                    | 61                                                           | 7.0                                                                  | 18.0                                            | 9.2                                            | K8700                                                                     | 4200                                                                          |
| 01... | 1530 | 47                                                                    | 61                                                           | 6.9                                                                  | 19.0                                            | 7.8                                            | --                                                                        | --                                                                            |
| 01... | 1830 | 44                                                                    | 65                                                           | 7.0                                                                  | 18.5                                            | 8.8                                            | 2000                                                                      | 1200                                                                          |
| 01... | 2130 | 43                                                                    | 67                                                           | 7.0                                                                  | 17.5                                            | 8.0                                            | --                                                                        | --                                                                            |
| 02... | 0030 | 41                                                                    | 66                                                           | 7.0                                                                  | 17.5                                            | 8.6                                            | 1100                                                                      | 390                                                                           |
| 02... | 0330 | 41                                                                    | 68                                                           | 7.0                                                                  | 17.5                                            | 8.4                                            | --                                                                        | --                                                                            |
| 02... | 0630 | 47                                                                    | 68                                                           | 7.0                                                                  | 17.0                                            | --                                             | 3700                                                                      | 3800                                                                          |
| 27... | 1200 | 44                                                                    | 57                                                           | 6.2                                                                  | 15.5                                            | 5.9                                            | --                                                                        | --                                                                            |
| DEC   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                           |                                                                               |
| 05... | 0930 | 51                                                                    | 62                                                           | 6.6                                                                  | 13.0                                            | 9.2                                            | --                                                                        | --                                                                            |
| 13... | 1245 | 52                                                                    | 61                                                           | 6.8                                                                  | 14.5                                            | 11.5                                           | --                                                                        | --                                                                            |
| FEB   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                           |                                                                               |
| 27... | 1430 | 64                                                                    | 70                                                           | 7.0                                                                  | 20.0                                            | 9.0                                            | --                                                                        | --                                                                            |
| MAY   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                           |                                                                               |
| 22... | 1615 | 32                                                                    | 62                                                           | 8.1                                                                  | 30.5                                            | 9.6                                            | --                                                                        | --                                                                            |
| AUG   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                           |                                                                               |
| 12... | 1730 | 49                                                                    | 57                                                           | 6.7                                                                  | 29.5                                            | 6.7                                            | --                                                                        | --                                                                            |

## YAZOO RIVER BASIN

07277700 HICKAHALA CREEK NEAR SENATOBIA, MS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

|      |       | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615)                | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630)               | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610)    | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665)                          | PHOS-<br>PHORUS<br>ORTHO<br>TOTAL<br>(MG/L<br>AS P)<br>(70507)           | 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)                   | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDEDED<br>(T/DAY)<br>(80155) |                                                                    |                                                                       |    |
|------|-------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------|----|
| OCT  |       |                                                                                |                                                                               |                                                                    |                                                                                |                                                                          |                                                                           |                                                                           |                                                                             |                                                                    |                                                                       |    |
|      | 02... | <0.010                                                                         | 0.190                                                                         | 0.010                                                              | <0.020                                                                         | 0.020                                                                    | 0.60                                                                      | --                                                                        | --                                                                          |                                                                    |                                                                       |    |
|      | 18... | <0.010                                                                         | 0.170                                                                         | <0.010                                                             | <0.020                                                                         | 0.010                                                                    | 0.70                                                                      | --                                                                        | --                                                                          |                                                                    |                                                                       |    |
|      | 31... | 0.010                                                                          | 0.370                                                                         | 0.020                                                              | 0.060                                                                          | 0.050                                                                    | 2.3                                                                       | 37                                                                        | 4.0                                                                         |                                                                    |                                                                       |    |
|      | 31... | 0.010                                                                          | 0.390                                                                         | 0.010                                                              | 0.080                                                                          | 0.050                                                                    | 2.7                                                                       | 32                                                                        | 3.5                                                                         |                                                                    |                                                                       |    |
|      | 31... | 0.010                                                                          | 0.410                                                                         | 0.010                                                              | 0.060                                                                          | 0.050                                                                    | 2.3                                                                       | 32                                                                        | 3.5                                                                         |                                                                    |                                                                       |    |
|      | 31... | 0.010                                                                          | 0.340                                                                         | 0.020                                                              | 0.060                                                                          | 0.060                                                                    | 2.3                                                                       | 35                                                                        | 3.8                                                                         |                                                                    |                                                                       |    |
|      | 31... | 0.010                                                                          | 0.310                                                                         | 0.020                                                              | 0.060                                                                          | 0.070                                                                    | 2.2                                                                       | 36                                                                        | 3.9                                                                         |                                                                    |                                                                       |    |
|      | 31... | 0.020                                                                          | 0.660                                                                         | 0.030                                                              | 0.060                                                                          | 0.060                                                                    | 2.7                                                                       | 40                                                                        | 4.4                                                                         |                                                                    |                                                                       |    |
|      | 31... | 0.010                                                                          | 0.370                                                                         | 0.030                                                              | 0.070                                                                          | 0.060                                                                    | 2.3                                                                       | 38                                                                        | 4.1                                                                         |                                                                    |                                                                       |    |
| NOV  |       |                                                                                |                                                                               |                                                                    |                                                                                |                                                                          |                                                                           |                                                                           |                                                                             |                                                                    |                                                                       |    |
|      | 01... | 0.010                                                                          | 0.350                                                                         | 0.030                                                              | 0.070                                                                          | 0.060                                                                    | 2.2                                                                       | 45                                                                        | 4.7                                                                         |                                                                    |                                                                       |    |
|      | 01... | 0.010                                                                          | 0.310                                                                         | 0.020                                                              | 0.050                                                                          | 0.060                                                                    | 2.2                                                                       | 40                                                                        | 4.1                                                                         |                                                                    |                                                                       |    |
|      | 01... | 0.010                                                                          | 0.320                                                                         | 0.030                                                              | 0.050                                                                          | 0.060                                                                    | 2.1                                                                       | 35                                                                        | 3.6                                                                         |                                                                    |                                                                       |    |
|      | 01... | 0.010                                                                          | 0.320                                                                         | 0.030                                                              | 0.050                                                                          | 0.060                                                                    | 2.1                                                                       | 34                                                                        | 3.5                                                                         |                                                                    |                                                                       |    |
|      | 01... | 0.010                                                                          | 0.280                                                                         | 0.020                                                              | 0.070                                                                          | 0.070                                                                    | 2.1                                                                       | 39                                                                        | 4.0                                                                         |                                                                    |                                                                       |    |
|      | 01... | 0.010                                                                          | 0.300                                                                         | 0.020                                                              | 0.080                                                                          | 0.070                                                                    | 2.4                                                                       | 52                                                                        | 6.6                                                                         |                                                                    |                                                                       |    |
|      | 01... | 0.010                                                                          | 0.310                                                                         | 0.010                                                              | 0.090                                                                          | 0.070                                                                    | 2.7                                                                       | 46                                                                        | 5.5                                                                         |                                                                    |                                                                       |    |
|      | 01... | 0.010                                                                          | 0.340                                                                         | 0.020                                                              | 0.080                                                                          | 0.070                                                                    | 2.5                                                                       | 42                                                                        | 4.9                                                                         |                                                                    |                                                                       |    |
|      | 02... | 0.010                                                                          | 0.340                                                                         | 0.030                                                              | 0.090                                                                          | 0.070                                                                    | 2.4                                                                       | 48                                                                        | 5.3                                                                         |                                                                    |                                                                       |    |
|      | 02... | 0.010                                                                          | 0.330                                                                         | 0.030                                                              | 0.070                                                                          | 0.070                                                                    | 2.4                                                                       | 36                                                                        | 4.0                                                                         |                                                                    |                                                                       |    |
|      | 02... | 0.010                                                                          | 0.280                                                                         | 0.020                                                              | 0.120                                                                          | 0.090                                                                    | 3.0                                                                       | 65                                                                        | 8.2                                                                         |                                                                    |                                                                       |    |
|      | 27... | 0.010                                                                          | 0.220                                                                         | 0.020                                                              | <0.020                                                                         | 0.020                                                                    | 0.90                                                                      | --                                                                        | --                                                                          |                                                                    |                                                                       |    |
| DEC  |       |                                                                                |                                                                               |                                                                    |                                                                                |                                                                          |                                                                           |                                                                           |                                                                             |                                                                    |                                                                       |    |
|      | 05... | 0.010                                                                          | 0.390                                                                         | 0.030                                                              | 0.100                                                                          | 0.060                                                                    | 1.6                                                                       | --                                                                        | --                                                                          |                                                                    |                                                                       |    |
|      | 13... | 0.010                                                                          | 0.400                                                                         | 0.040                                                              | 0.050                                                                          | 0.050                                                                    | 2.1                                                                       | --                                                                        | --                                                                          |                                                                    |                                                                       |    |
| FEB  |       |                                                                                |                                                                               |                                                                    |                                                                                |                                                                          |                                                                           |                                                                           |                                                                             |                                                                    |                                                                       |    |
|      | 27... | --                                                                             | --                                                                            | --                                                                 | --                                                                             | --                                                                       | --                                                                        | --                                                                        | --                                                                          |                                                                    |                                                                       |    |
| MAY  |       |                                                                                |                                                                               |                                                                    |                                                                                |                                                                          |                                                                           |                                                                           |                                                                             |                                                                    |                                                                       |    |
|      | 22... | --                                                                             | --                                                                            | --                                                                 | --                                                                             | --                                                                       | --                                                                        | --                                                                        | --                                                                          |                                                                    |                                                                       |    |
| AUG  |       |                                                                                |                                                                               |                                                                    |                                                                                |                                                                          |                                                                           |                                                                           |                                                                             |                                                                    |                                                                       |    |
|      | 12... | --                                                                             | --                                                                            | --                                                                 | --                                                                             | --                                                                       | --                                                                        | --                                                                        | --                                                                          |                                                                    |                                                                       |    |
| DATE | TIME  | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080)                        | 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)    | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA)<br>(00930)                        | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K)<br>(00935)           | ALKA-<br>LINITY<br>LAB<br>(MG/L<br>AS CAC03)<br>(90410)                   | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4)<br>(00945)                  | 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)      | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SIO2)<br>(00955)          |    |
| NOV  | 01... | 1530                                                                           | <5                                                                            | 3.8                                                                | 1.6                                                                            | 5.6                                                                      | 2.1                                                                       | 20                                                                        | 1.5                                                                         | 5.1                                                                | <0.10                                                                 | 14 |
| DATE | TIME  | SOLIDS,<br>SUM OF<br>CONSTI-<br>TUENTS,<br>DIS-<br>SOLVED<br>(MG/L)<br>(70301) | NITRO-<br>GEN,<br>NITRITE<br>SOLVED<br>(MG/L<br>AS N)<br>(00613)              | NITRO-<br>GEN,<br>NO2+NO3<br>SOLVED<br>(MG/L<br>AS N)<br>(00631)   | NITRO-<br>GEN,<br>AMMONIA<br>SOLVED<br>(MG/L<br>AS N)<br>(00608)               | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671) | ALUM-<br>INUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS AL)<br>(01105) | ARSENIC<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS AS)<br>(01002)        | ARSENIC<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS AS)<br>(01003)       | CADMIUM<br>WATER<br>UNFLTRD<br>TOTAL<br>(UG/L<br>AS CD)<br>(01027) | CADMIUM<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/L<br>AS CD)<br>(01028) |    |
| NOV  | 01... | 48                                                                             | 0.010                                                                         | 0.300                                                              | 0.020                                                                          | 0.070                                                                    | 310                                                                       | <1                                                                        | 2                                                                           | <1                                                                 | <1                                                                    |    |
| DATE | TIME  | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR)<br>(01034)      | CHRO-<br>MIUM,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G)<br>(01029) | COBALT,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CO)<br>(01037) | COBALT,<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G)<br>AS CO)<br>(01038)         | COPPER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU)<br>(01042)       | COPPER,<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G)<br>AS CU)<br>(01043)    | IRON,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS FE)<br>(01045)          | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE)<br>(01046)                       | IRON,<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G)<br>(01170)         | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB)<br>(01051)      |    |
| NOV  | 01... | 2                                                                              | <1                                                                            | <1                                                                 | <5                                                                             | 2                                                                        | <1                                                                        | 910                                                                       | 130                                                                         | 950                                                                | <1                                                                    |    |
| DATE | TIME  | LEAD,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS PB)<br>(01052)  | MANGA-<br>NESE,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS MN)<br>(01055)    | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN)<br>(01056)    | MANGA-<br>NESE,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G)<br>(01053) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG)<br>(71900)       | MERCURY<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G)<br>AS HG)<br>(71921)    | SELE-<br>NIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS SE)<br>(01147) | SELE-<br>NIUM,<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/G)<br>(01148)         | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN)<br>(01092)   | ZINC,<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS ZN)<br>(01093)   |    |
| NOV  | 01... | <10                                                                            | 210                                                                           | 150                                                                | 120                                                                            | 0.10                                                                     | <0.01                                                                     | <1                                                                        | <1                                                                          | <4                                                                 | <10                                                                   |    |

## 07277700 HICKAHALA CREEK NEAR SENATOBIA, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| 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       | 39                         | 15                              | 1.6                                 | 41                         | 42                              | 4.7                                 | 45                         | 10                              | 1.2                                 |
| 2       | 38                         | 14                              | 1.4                                 | 51                         | 61                              | 8.6                                 | 45                         | 10                              | 1.2                                 |
| 3       | 38                         | 10                              | .98                                 | 40                         | 27                              | 2.9                                 | 47                         | 11                              | 1.4                                 |
| 4       | 39                         | 9                               | .95                                 | 36                         | 20                              | 2.0                                 | 90                         | 35                              | 9.4                                 |
| 5       | 39                         | 8                               | .84                                 | 37                         | 17                              | 1.6                                 | 51                         | 75                              | 10                                  |
| 6       | 38                         | 8                               | .85                                 | 40                         | 17                              | 1.8                                 | 47                         | 47                              | 6.0                                 |
| 7       | 38                         | 8                               | .83                                 | 411                        | 211                             | 324                                 | 47                         | 24                              | 3.0                                 |
| 8       | 38                         | 9                               | .89                                 | 78                         | 36                              | 7.8                                 | 96                         | 30                              | 19                                  |
| 9       | 38                         | 9                               | .95                                 | 49                         | 31                              | 4.1                                 | 158                        | 68                              | 45                                  |
| 10      | 37                         | 10                              | 1.0                                 | 46                         | 29                              | 3.6                                 | 64                         | 25                              | 4.3                                 |
| 11      | 38                         | 9                               | .96                                 | 118                        | 52                              | 23                                  | 56                         | 21                              | 3.2                                 |
| 12      | 36                         | 9                               | .84                                 | 54                         | 17                              | 2.5                                 | 53                         | 20                              | 2.9                                 |
| 13      | 37                         | 8                               | .84                                 | 45                         | 14                              | 1.7                                 | 52                         | 30                              | 4.2                                 |
| 14      | 37                         | 8                               | .82                                 | 44                         | 13                              | 1.5                                 | 50                         | 17                              | 2.3                                 |
| 15      | 36                         | 10                              | .96                                 | 42                         | 12                              | 1.4                                 | 313                        | 399                             | 1420                                |
| 16      | 37                         | 11                              | 1.1                                 | 41                         | 11                              | 1.2                                 | 786                        | 550                             | 2070                                |
| 17      | 37                         | 11                              | 1.1                                 | 40                         | 11                              | 1.1                                 | 330                        | 227                             | 356                                 |
| 18      | 37                         | 10                              | .97                                 | 40                         | 10                              | 1.1                                 | 1280                       | 943                             | 5180                                |
| 19      | 37                         | 8                               | .82                                 | 40                         | 10                              | 1.1                                 | 597                        | 186                             | 474                                 |
| 20      | 38                         | 8                               | .80                                 | 40                         | 10                              | 1.1                                 | 142                        | 40                              | 16                                  |
| 21      | 38                         | 7                               | .76                                 | 39                         | 10                              | 1.1                                 | 97                         | 25                              | 6.5                                 |
| 22      | 38                         | 7                               | .75                                 | 40                         | 10                              | 1.1                                 | 82                         | 18                              | 3.9                                 |
| 23      | 39                         | 7                               | .74                                 | 47                         | 13                              | 1.6                                 | 75                         | 13                              | 2.7                                 |
| 24      | 39                         | 7                               | .74                                 | 44                         | 9                               | 1.1                                 | 71                         | 13                              | 2.6                                 |
| 25      | 40                         | 7                               | .75                                 | 43                         | 8                               | .97                                 | 69                         | 14                              | 2.6                                 |
| 26      | 40                         | 7                               | .75                                 | 43                         | 10                              | 1.2                                 | 67                         | 14                              | 2.5                                 |
| 27      | 252                        | 229                             | 269                                 | 44                         | 23                              | 2.7                                 | 66                         | 13                              | 2.4                                 |
| 28      | 68                         | 48                              | 8.8                                 | 44                         | 19                              | 2.3                                 | 64                         | 13                              | 2.3                                 |
| 29      | 45                         | 43                              | 5.3                                 | 44                         | 14                              | 1.6                                 | 63                         | 12                              | 2.1                                 |
| 30      | 41                         | 40                              | 4.4                                 | 44                         | 10                              | 1.3                                 | 62                         | 12                              | 2.0                                 |
| 31      | 41                         | 37                              | 4.0                                 | ---                        | ---                             | ---                                 | 412                        | 315                             | 511                                 |
| JANUARY |                            |                                 | FEBRUARY                            |                            |                                 | MARCH                               |                            |                                 |                                     |
| 1       | 215                        | 101                             | 74                                  | 92                         | 87                              | 21                                  | 90                         | 76                              | 19                                  |
| 2       | 718                        | 575                             | 1550                                | 101                        | 211                             | 58                                  | 81                         | 50                              | 11                                  |
| 3       | 153                        | 105                             | 45                                  | 91                         | 103                             | 25                                  | 72                         | 51                              | 9.9                                 |
| 4       | 99                         | 82                              | 22                                  | 84                         | 87                              | 20                                  | 69                         | 56                              | 10                                  |
| 5       | 81                         | 75                              | 17                                  | 78                         | 72                              | 15                                  | 79                         | 73                              | 16                                  |
| 6       | 75                         | 69                              | 14                                  | 77                         | 61                              | 13                                  | 132                        | 141                             | 51                                  |
| 7       | 73                         | 64                              | 12                                  | 406                        | 368                             | 623                                 | 612                        | 610                             | 1430                                |
| 8       | 69                         | 59                              | 11                                  | 436                        | 346                             | 437                                 | 141                        | 153                             | 59                                  |
| 9       | 68                         | 54                              | 10                                  | 182                        | 156                             | 79                                  | 98                         | 107                             | 28                                  |
| 10      | 71                         | 50                              | 9.5                                 | 113                        | 111                             | 34                                  | 86                         | 99                              | 23                                  |
| 11      | 275                        | 231                             | 357                                 | 90                         | 79                              | 19                                  | 78                         | 98                              | 21                                  |
| 12      | 231                        | 198                             | 141                                 | 77                         | 58                              | 12                                  | 77                         | 97                              | 20                                  |
| 13      | 112                        | 113                             | 34                                  | 73                         | 52                              | 10                                  | 72                         | 97                              | 19                                  |
| 14      | 89                         | 73                              | 18                                  | 71                         | 49                              | 9.4                                 | 69                         | 96                              | 18                                  |
| 15      | 80                         | 58                              | 12                                  | 69                         | 46                              | 8.6                                 | 69                         | 95                              | 18                                  |
| 16      | 74                         | 48                              | 9.7                                 | 65                         | 43                              | 7.6                                 | 76                         | 93                              | 19                                  |
| 17      | 73                         | 49                              | 9.6                                 | 62                         | 40                              | 6.8                                 | 68                         | 85                              | 16                                  |
| 18      | 511                        | 342                             | 753                                 | 62                         | 38                              | 6.4                                 | 121                        | 178                             | 149                                 |
| 19      | 233                        | 150                             | 106                                 | 174                        | 225                             | 147                                 | 415                        | 407                             | 551                                 |
| 20      | 117                        | 74                              | 24                                  | 187                        | 252                             | 129                                 | 125                        | 68                              | 24                                  |
| 21      | 98                         | 64                              | 17                                  | 104                        | 156                             | 44                                  | 87                         | 55                              | 13                                  |
| 22      | 87                         | 59                              | 14                                  | 86                         | 89                              | 21                                  | 76                         | 62                              | 13                                  |
| 23      | 397                        | 196                             | 1540                                | 80                         | 53                              | 11                                  | 65                         | 68                              | 12                                  |
| 24      | 1650                       | 2370                            | 17800                               | 70                         | 42                              | 8.0                                 | 62                         | 73                              | 13                                  |
| 25      | 234                        | 258                             | 169                                 | 67                         | 35                              | 6.4                                 | 1150                       | 2050                            | 6740                                |
| 26      | 382                        | 469                             | 718                                 | 67                         | 29                              | 5.3                                 | 292                        | 271                             | 218                                 |
| 27      | 266                        | 252                             | 200                                 | 82                         | 95                              | 32                                  | 155                        | 220                             | 93                                  |
| 28      | 140                        | 158                             | 60                                  | 311                        | 398                             | 327                                 | 129                        | 127                             | 44                                  |
| 29      | 119                        | 137                             | 44                                  | 115                        | 122                             | 38                                  | 119                        | 58                              | 19                                  |
| 30      | 106                        | 118                             | 34                                  | ---                        | ---                             | ---                                 | 105                        | 69                              | 19                                  |
| 31      | 97                         | 102                             | 27                                  | ---                        | ---                             | ---                                 | 685                        | 1460                            | 2700                                |

## YAZOO RIVER BASIN

07277700 HICKAHALA CREEK NEAR SENATOBIA, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| 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) |
|-------|----------------------------|---------------------------------|-------------------------------------|----------------------------|---------------------------------|-------------------------------------|----------------------------|---------------------------------|-------------------------------------|
| APRIL |                            |                                 | MAY                                 |                            |                                 | JUNE                                |                            |                                 |                                     |
| 1     | 198                        | 230                             | 146                                 | 47                         | 17                              | 2.2                                 | 47                         | 380                             | 66                                  |
| 2     | 100                        | 113                             | 31                                  | 47                         | 25                              | 3.1                                 | 73                         | 183                             | 48                                  |
| 3     | 82                         | 82                              | 18                                  | 46                         | 30                              | 3.8                                 | 46                         | 43                              | 5.3                                 |
| 4     | 75                         | 45                              | 9.2                                 | 46                         | 33                              | 4.0                                 | 37                         | 40                              | 4.1                                 |
| 5     | 68                         | 26                              | 4.7                                 | 45                         | 32                              | 3.9                                 | 34                         | 38                              | 3.5                                 |
| 6     | 67                         | 30                              | 5.4                                 | 46                         | 31                              | 3.8                                 | 33                         | 37                              | 3.2                                 |
| 7     | 63                         | 39                              | 6.5                                 | 102                        | 216                             | 66                                  | 55                         | 108                             | 19                                  |
| 8     | 59                         | 30                              | 4.8                                 | 63                         | 93                              | 18                                  | 59                         | 97                              | 20                                  |
| 9     | 56                         | 30                              | 4.6                                 | 48                         | 37                              | 4.7                                 | 770                        | 939                             | 3280                                |
| 10    | 55                         | 39                              | 5.7                                 | 48                         | 32                              | 4.2                                 | 91                         | 104                             | 28                                  |
| 11    | 54                         | 37                              | 5.4                                 | 632                        | 658                             | 2000                                | 53                         | 54                              | 7.7                                 |
| 12    | 53                         | 35                              | 5.1                                 | 85                         | 82                              | 21                                  | 46                         | 51                              | 6.4                                 |
| 13    | 55                         | 34                              | 5.1                                 | 46                         | 48                              | 6.0                                 | 51                         | 58                              | 8.3                                 |
| 14    | 53                         | 35                              | 5.0                                 | 39                         | 39                              | 4.2                                 | 42                         | 54                              | 6.2                                 |
| 15    | 54                         | 36                              | 5.2                                 | 36                         | 34                              | 3.3                                 | 38                         | 42                              | 4.3                                 |
| 16    | 52                         | 37                              | 5.1                                 | 34                         | 46                              | 4.1                                 | 36                         | 37                              | 3.6                                 |
| 17    | 49                         | 38                              | 5.0                                 | 31                         | 65                              | 5.4                                 | 35                         | 34                              | 3.2                                 |
| 18    | 49                         | 39                              | 5.2                                 | 30                         | 83                              | 6.7                                 | 394                        | 378                             | 935                                 |
| 19    | 238                        | 742                             | 807                                 | 30                         | 68                              | 5.5                                 | 122                        | 185                             | 85                                  |
| 20    | 64                         | 66                              | 11                                  | 30                         | 52                              | 4.2                                 | 53                         | 56                              | 8.0                                 |
| 21    | 52                         | 52                              | 7.3                                 | 31                         | 41                              | 3.3                                 | 48                         | 50                              | 6.5                                 |
| 22    | 76                         | 338                             | 175                                 | 30                         | 32                              | 2.6                                 | 45                         | 46                              | 5.5                                 |
| 23    | 506                        | 963                             | 2140                                | 31                         | 31                              | 2.6                                 | 43                         | 42                              | 4.9                                 |
| 24    | 83                         | 81                              | 18                                  | 32                         | 31                              | 2.7                                 | 42                         | 39                              | 4.4                                 |
| 25    | 59                         | 61                              | 9.7                                 | 32                         | 32                              | 2.8                                 | 47                         | 42                              | 6.2                                 |
| 26    | 52                         | 53                              | 7.5                                 | 33                         | 34                              | 3.0                                 | 50                         | 55                              | 8.4                                 |
| 27    | 48                         | 49                              | 6.3                                 | 33                         | 35                              | 3.1                                 | 40                         | 41                              | 4.4                                 |
| 28    | 47                         | 52                              | 6.5                                 | 86                         | 84                              | 25                                  | 38                         | 45                              | 4.7                                 |
| 29    | 50                         | 50                              | 6.7                                 | 44                         | 52                              | 6.4                                 | 38                         | 47                              | 4.8                                 |
| 30    | 50                         | 29                              | 3.9                                 | 35                         | 38                              | 3.6                                 | 37                         | 40                              | 4.0                                 |
| 31    | ---                        | ---                             | ---                                 | 34                         | 47                              | 4.3                                 | ---                        | ---                             | ---                                 |
| JULY  |                            |                                 | AUGUST                              |                            |                                 | SEPTEMBER                           |                            |                                 |                                     |
| 1     | 36                         | 34                              | 3.3                                 | 68                         | 86                              | 18                                  | 165                        | 71                              | 93                                  |
| 2     | 37                         | 29                              | 2.9                                 | 49                         | 52                              | 6.9                                 | 1910                       | 820                             | 5360                                |
| 3     | 36                         | 33                              | 3.2                                 | 48                         | 45                              | 5.9                                 | 195                        | 191                             | 112                                 |
| 4     | 36                         | 38                              | 3.8                                 | 47                         | 44                              | 5.5                                 | 143                        | 166                             | 80                                  |
| 5     | 37                         | 43                              | 4.2                                 | 45                         | 43                              | 5.3                                 | 74                         | 74                              | 15                                  |
| 6     | 36                         | 47                              | 4.6                                 | 45                         | 42                              | 5.1                                 | 66                         | 60                              | 11                                  |
| 7     | 37                         | 52                              | 5.2                                 | 45                         | 41                              | 5.1                                 | 64                         | 49                              | 8.5                                 |
| 8     | 39                         | 57                              | 6.0                                 | 45                         | 40                              | 4.9                                 | 63                         | 44                              | 7.4                                 |
| 9     | 38                         | 61                              | 6.3                                 | 45                         | 40                              | 4.8                                 | 62                         | 39                              | 6.6                                 |
| 10    | 36                         | 46                              | 4.5                                 | 45                         | 39                              | 4.7                                 | 62                         | 36                              | 5.9                                 |
| 11    | 37                         | 31                              | 3.0                                 | 46                         | 35                              | 4.4                                 | 61                         | 35                              | 5.8                                 |
| 12    | 37                         | 39                              | 3.9                                 | 48                         | 19                              | 2.5                                 | 60                         | 36                              | 5.8                                 |
| 13    | 37                         | 55                              | 5.5                                 | 47                         | 19                              | 2.4                                 | 58                         | 37                              | 5.7                                 |
| 14    | 38                         | 53                              | 5.5                                 | 47                         | 20                              | 2.6                                 | 58                         | 37                              | 5.8                                 |
| 15    | 42                         | 49                              | 5.7                                 | 48                         | 22                              | 2.9                                 | 59                         | 38                              | 6.1                                 |
| 16    | 40                         | 43                              | 4.6                                 | 48                         | 25                              | 3.2                                 | 62                         | 39                              | 6.6                                 |
| 17    | 105                        | 113                             | 43                                  | 49                         | 27                              | 3.5                                 | 98                         | 54                              | 16                                  |
| 18    | 45                         | 46                              | 5.5                                 | 49                         | 28                              | 3.8                                 | 55                         | 39                              | 5.8                                 |
| 19    | 43                         | 46                              | 5.3                                 | 50                         | 30                              | 4.0                                 | 53                         | 36                              | 5.1                                 |
| 20    | 42                         | 45                              | 5.1                                 | 52                         | 31                              | 4.4                                 | 53                         | 34                              | 4.9                                 |
| 21    | 44                         | 40                              | 4.7                                 | 54                         | 33                              | 4.8                                 | 227                        | 346                             | 390                                 |
| 22    | 42                         | 35                              | 4.0                                 | 52                         | 35                              | 4.9                                 | 74                         | 79                              | 16                                  |
| 23    | 45                         | 31                              | 3.8                                 | 51                         | 36                              | 5.0                                 | 55                         | 51                              | 7.7                                 |
| 24    | 44                         | 36                              | 4.3                                 | 51                         | 38                              | 5.2                                 | 52                         | 34                              | 4.7                                 |
| 25    | 48                         | 47                              | 6.2                                 | 51                         | 39                              | 5.3                                 | 51                         | 23                              | 3.2                                 |
| 26    | 54                         | 63                              | 9.4                                 | 430                        | 694                             | 2980                                | 52                         | 21                              | 2.9                                 |
| 27    | 48                         | 36                              | 4.7                                 | 549                        | 632                             | 1310                                | 1400                       | 734                             | 3530                                |
| 28    | 49                         | 37                              | 4.9                                 | 155                        | 130                             | 58                                  | 345                        | 260                             | 298                                 |
| 29    | 46                         | 41                              | 5.1                                 | 98                         | 66                              | 18                                  | 84                         | 66                              | 15                                  |
| 30    | 81                         | 89                              | 20                                  | 91                         | 44                              | 11                                  | 58                         | 40                              | 6.3                                 |
| 31    | 112                        | 127                             | 51                                  | 87                         | 40                              | 9.4                                 | ---                        | ---                             | ---                                 |



07277730 SENATOBIA CREEK NEAR SENATOBIA,

LOCATION.--Lat 34°37'02", Long 89°56'30", 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.

DRAINAGE AREA.--82.0 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

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.

GAGE.--Water-stage recorder. Datum of gage is 233.80 ft above sea level.

REMARKS.--Estimated daily discharges: Dec. 6 - Mar. 20, 25, Jun. 4, Aug. 9-14, Sept. 2, 27. Records fair except for estimated daily discharges, which are poor.

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).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1     | 12   | 13   | 15   | e60  | e24  | e39  | 53   | 19   | 15   | 14   | 15   | 19   |
| 2     | 12   | 17   | 14   | e250 | e26  | e35  | 34   | 18   | 50   | 14   | 15   | e950 |
| 3     | 12   | 13   | 14   | e77  | e24  | e31  | 27   | 18   | 102  | 14   | 14   | 43   |
| 4     | 12   | 12   | 17   | e24  | e22  | e29  | 25   | 17   | e17  | 14   | 15   | 42   |
| 5     | 13   | 13   | 15   | e22  | e21  | e31  | 23   | 17   | 23   | 15   | 14   | 17   |
| 6     | 12   | 14   | e12  | e20  | e20  | e35  | 23   | 17   | 15   | 14   | 14   | 15   |
| 7     | 12   | 104  | e12  | e19  | e110 | e450 | 22   | 46   | 21   | 15   | 14   | 14   |
| 8     | 12   | 28   | e70  | e18  | e115 | e66  | 21   | 20   | 20   | 16   | 14   | 13   |
| 9     | 12   | 13   | e190 | e19  | 43   | e45  | 20   | 17   | 678  | 21   | e14  | 13   |
| 10    | 12   | 13   | e32  | e19  | e18  | e38  | 20   | 17   | 54   | 14   | e14  | 13   |
| 11    | 12   | 16   | e22  | e74  | e17  | e33  | 37   | 217  | 25   | 14   | e14  | 12   |
| 12    | 12   | 14   | e17  | e66  | e17  | e32  | 34   | 32   | 19   | 14   | e15  | 13   |
| 13    | 12   | 13   | e13  | e30  | e16  | e30  | 31   | 20   | 20   | 14   | e14  | 13   |
| 14    | 13   | 13   | e11  | e24  | e16  | e26  | 26   | 18   | 18   | 15   | e14  | 13   |
| 15    | 12   | 12   | e300 | e21  | e16  | e24  | 25   | 17   | 16   | 15   | 13   | 13   |
| 16    | 12   | 12   | e500 | e20  | e16  | e26  | 24   | 16   | 16   | 14   | 14   | 14   |
| 17    | 13   | 11   | e250 | e19  | e16  | e26  | 23   | 16   | 15   | 15   | 14   | 13   |
| 18    | 13   | 12   | e900 | e135 | e16  | e30  | 22   | 16   | 91   | 15   | 14   | 12   |
| 19    | 12   | 12   | e200 | e60  | e47  | e112 | 37   | 15   | 25   | 15   | 15   | 12   |
| 20    | 13   | 12   | e55  | e31  | e50  | e62  | 24   | 15   | 17   | 15   | 15   | 13   |
| 21    | 12   | 12   | e31  | e26  | e27  | 32   | 35   | 15   | 16   | 15   | 15   | 314  |
| 22    | 12   | 11   | e25  | e24  | e23  | 25   | 45   | 15   | 15   | 15   | 15   | 29   |
| 23    | 12   | 15   | e22  | e110 | e21  | 21   | 571  | 21   | 15   | 15   | 15   | 18   |
| 24    | 12   | 13   | e21  | e430 | e18  | 19   | 32   | 25   | 15   | 15   | 15   | 17   |
| 25    | 12   | 12   | e20  | e64  | e18  | e800 | 21   | 21   | 15   | 18   | 16   | 17   |
| 26    | 12   | 12   | e19  | e100 | e18  | 99   | 18   | 16   | 15   | 16   | 51   | 16   |
| 27    | 28   | 12   | e19  | e72  | e27  | 49   | 17   | 15   | 14   | 27   | 104  | e900 |
| 28    | 17   | 11   | e18  | e35  | e81  | 39   | 19   | 51   | 14   | 25   | 36   | 127  |
| 29    | 11   | 12   | e18  | e32  | e50  | 35   | 21   | 23   | 14   | 16   | 16   | 31   |
| 30    | 11   | 18   | e18  | e28  | ---  | 31   | 21   | 15   | 14   | 17   | 18   | 18   |
| 31    | 13   | ---  | e120 | e26  | ---  | 177  | ---  | 15   | ---  | 17   | 63   | ---  |
| TOTAL | 397  | 495  | 2990 | 1955 | 933  | 2527 | 1351 | 820  | 1404 | 493  | 649  | 2754 |
| MEAN  | 12.8 | 16.5 | 96.5 | 63.1 | 32.2 | 81.5 | 45.0 | 26.5 | 46.8 | 15.9 | 20.9 | 91.8 |
| MAX   | 28   | 104  | 900  | 430  | 115  | 800  | 571  | 217  | 678  | 27   | 104  | 950  |
| MIN   | 11   | 11   | 11   | 18   | 16   | 19   | 17   | 15   | 14   | 14   | 13   | 12   |
| MED   | 12   | 13   | 20   | 30   | 21   | 33   | 24   | 17   | 16   | 15   | 15   | 15   |
| AC-FT | 787  | 982  | 5930 | 3880 | 1850 | 5010 | 2680 | 1630 | 2780 | 978  | 1290 | 5460 |
| CFSM  | .16  | .20  | 1.18 | .77  | .39  | .99  | .55  | .32  | .57  | .19  | .26  | 1.12 |
| IN.   | .18  | .22  | 1.36 | .89  | .42  | 1.15 | .61  | .37  | .64  | .22  | .29  | 1.25 |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 1996, BY WATER YEAR (WY)

|      | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |
|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 14.0 | 82.6 | 177  | 132  | 191  | 131  | 123  | 69.0 | 100  | 66.0 | 26.8 |
| MAX  | 21.2 | 219  | 370  | 391  | 472  | 288  | 668  | 227  | 457  | 331  | 72.1 |
| (WY) | 1987 | 1988 | 1991 | 1989 | 1990 | 1992 | 1991 | 1991 | 1989 | 1993 | 1996 |
| MIN  | 10.6 | 16.5 | 34.4 | 25.7 | 32.2 | 24.5 | 11.4 | 8.54 | 8.85 | 8.75 | 9.47 |
| (WY) | 1988 | 1996 | 1990 | 1987 | 1996 | 1986 | 1986 | 1986 | 1988 | 1986 | 1987 |

## SUMMARY STATISTICS

## FOR 1995 CALENDAR YEAR

## FOR 1996 WATER YEAR

## WATER YEARS 1986 - 1996

|                          | 1995  | 1996    | 1986-1996 |
|--------------------------|-------|---------|-----------|
| ANNUAL TOTAL             | 29145 | 16768   |           |
| ANNUAL MEAN              | 79.8  | 45.8    | 96.5      |
| HIGHEST ANNUAL MEAN      |       |         | 175       |
| LOWEST ANNUAL MEAN       |       |         | 45.8      |
| HIGHEST DAILY MEAN       | 2980  | Mar 7   | 5890      |
| LOWEST DAILY MEAN        | 11    | Apr 14  | 7.2       |
| ANNUAL SEVEN-DAY MINIMUM | 11    | Sep 18  | 7.3       |
| INSTANTANEOUS PEAK FLOW  |       | unknown | 12100     |
| INSTANTANEOUS PEAK STAGE |       | 14.28   | 19.55     |
| INSTANTANEOUS LOW FLOW   |       | 8.8     | 7.1       |
| ANNUAL RUNOFF (CFSM)     | .97   | .56     | 1.18      |
| ANNUAL RUNOFF (INCHES)   | 13.22 | 7.61    | 15.99     |
| 10 PERCENT EXCEEDS       | 118   | 66      | 117       |
| 50 PERCENT EXCEEDS       | 17    | 18      | 16        |
| 90 PERCENT EXCEEDS       | 12    | 12      | 9.1       |

e Estimated

## YAZOO RIVER BASIN

07277730 SENATOBIA CREEK NEAR SENATOBIA, MS--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1986 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1986 to October 1987.

pH: May 1986 to October 1987.

WATER TEMPERATURE: February 1986 to October 1987.

DISSOLVED OXYGEN: February 1986 to October 1987.

SUSPENDED SEDIMENT CONCENTRATION: March 1986 to November 1989.

SUSPENDED SEDIMENT DISCHARGE: March 1986 to November 1989.

REMARKS.--Unpublished records of daily specific conductance, pH, water temperature, and dissolved oxygen during selected storm events are available in files of District office.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE  | TIME | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) | SPECIFIC CONDUCTANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STANDARD ARD UNITS) (00400) | TEMPERATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) | COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625) | STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML) (31673) |
|-------|------|-------------------------------------------------|--------------------------------------|---------------------------------------------------|-----------------------------------|-----------------------------------|---------------------------------------------------|---------------------------------------------------------|
| OCT   |      |                                                 |                                      |                                                   |                                   |                                   |                                                   |                                                         |
| 02... | 1245 | 12                                              | 87                                   | 7.0                                               | 29.0                              | 8.9                               | --                                                | --                                                      |
| 18... | 1000 | 12                                              | 80                                   | 6.9                                               | 15.0                              | 8.0                               | --                                                | --                                                      |
| 31... | 0700 | 13                                              | 87                                   | 6.9                                               | 14.0                              | 8.5                               | 780                                               | 840                                                     |
| 31... | 0930 | 13                                              | 82                                   | 7.3                                               | 14.0                              | 9.2                               | --                                                | --                                                      |
| 31... | 1000 | 13                                              | 86                                   | 7.0                                               | 14.5                              | 8.7                               | --                                                | --                                                      |
| 31... | 1300 | 12                                              | 83                                   | 7.0                                               | 17.0                              | 9.6                               | K320                                              | 480                                                     |
| 31... | 1600 | 12                                              | 84                                   | 7.1                                               | 17.5                              | 9.5                               | --                                                | --                                                      |
| 31... | 1900 | 13                                              | 85                                   | 7.2                                               | 17.0                              | 9.6                               | 240                                               | 600                                                     |
| 31... | 2200 | 13                                              | 84                                   | 7.0                                               | 16.5                              | 9.2                               | --                                                | --                                                      |
| NOV   |      |                                                 |                                      |                                                   |                                   |                                   |                                                   |                                                         |
| 01... | 0100 | 13                                              | 86                                   | 7.0                                               | 16.5                              | 9.1                               | 320                                               | K570                                                    |
| 01... | 0400 | 13                                              | 85                                   | 7.0                                               | 16.5                              | 9.1                               | --                                                | --                                                      |
| 01... | 0700 | 12                                              | 81                                   | 7.0                                               | 16.5                              | 7.2                               | --                                                | 740                                                     |
| 01... | 1000 | 12                                              | 80                                   | 7.0                                               | 17.0                              | 8.5                               | --                                                | --                                                      |
| 01... | 1300 | 12                                              | 77                                   | 7.0                                               | 18.0                              | 8.7                               | K380                                              | 1000                                                    |
| 01... | 1600 | 18                                              | 76                                   | 7.2                                               | 18.5                              | 8.3                               | --                                                | --                                                      |
| 01... | 1900 | 16                                              | 80                                   | 7.1                                               | 18.5                              | 8.4                               | 920                                               | 1800                                                    |
| 01... | 2200 | 16                                              | 82                                   | 7.1                                               | 18.0                              | 7.3                               | --                                                | --                                                      |
| 02... | 0100 | 14                                              | 83                                   | 7.0                                               | 17.5                              | 8.6                               | K1900                                             | 3800                                                    |
| 02... | 0400 | 14                                              | 78                                   | 7.0                                               | 17.0                              | --                                | --                                                | --                                                      |
| 02... | 0700 | 16                                              | 72                                   | 7.0                                               | 17.0                              | --                                | 2300                                              | 4700                                                    |
| 27... | 1400 | 11                                              | 83                                   | 6.4                                               | 13.5                              | 9.9                               | --                                                | --                                                      |
| DEC   |      |                                                 |                                      |                                                   |                                   |                                   |                                                   |                                                         |
| 05... | 1015 | 15                                              | 83                                   | 6.5                                               | 13.0                              | 9.3                               | --                                                | --                                                      |
| 13... | 1330 | 13                                              | 82                                   | 6.8                                               | 10.5                              | 10.2                              | --                                                | --                                                      |
| FEB   |      |                                                 |                                      |                                                   |                                   |                                   |                                                   |                                                         |
| 27... | 1545 | 26                                              | 86                                   | 7.3                                               | 20.5                              | 9.5                               | --                                                | --                                                      |
| MAY   |      |                                                 |                                      |                                                   |                                   |                                   |                                                   |                                                         |
| 22... | 1730 | 16                                              | 84                                   | 9.0                                               | 30.5                              | 10.7                              | --                                                | --                                                      |
| AUG   |      |                                                 |                                      |                                                   |                                   |                                   |                                                   |                                                         |
| 12... | 1800 | 14                                              | 78                                   | 8.5                                               | 31.0                              | 7.0                               | --                                                | --                                                      |

[illegible]

## 07277730 SENATOBIA CREEK NEAR SENATOBIA, MS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

|              |                                                                                                            | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080)                                            | 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)                                    | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA)<br>(00930)                                   | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K)<br>(00935)                                            | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4)<br>(00945)                                        | 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)                                    | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>STO2)<br>(00955)                            |
|--------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| NOV<br>01... | 1600                                                                                                       | 65                                                                                                 | 3.2                                                                                               | 1.7                                                                                                | 9.6                                                                                       | 1.3                                                                                                       | 1.9                                                                                             | 8.1                                                                                              | <0.10                                                                                            | 16                                                                                      |
|              | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613)                                   | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631)                           | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608)                          | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671)                           | ALUM-<br>INUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS AL)<br>(01105)                 | ARSENIC<br>TOTAL<br>IN BOT-<br>TOM MA-<br>RECOV-<br>ERABLE<br>(UG/L<br>AS AS)<br>(01002)                  | ARSENIC<br>TOTAL<br>IN BOT-<br>TOM MA-<br>RECOV-<br>ERABLE<br>(UG/L<br>AS AS)<br>(01003)        | CADMIUM<br>WATER<br>UNFLTRD<br>TOTAL<br>(UG/L<br>AS CD)<br>(01027)                               | CADMIUM<br>RECOV.<br>FM BOT-<br>TOM MA-<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD)<br>(01028)        | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR)<br>(01034)               |
| NOV<br>01... | 0.010                                                                                                      | 0.740                                                                                              | 0.050                                                                                             | 0.090                                                                                              | 4000                                                                                      | 4                                                                                                         | 2                                                                                               | <1                                                                                               | <1                                                                                               | 7                                                                                       |
|              | CHRO-<br>MIUM,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CO)<br>(01029)           | COBALT,<br>TOTAL<br>RECOV-<br>FM BOT-<br>TOM MA-<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CO)<br>(01037) | COBALT,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CO)<br>(01038)         | COPPER,<br>TOTAL<br>RECOV-<br>FM BOT-<br>TOM MA-<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU)<br>(01042) | COPPER,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU)<br>(01043) | IRON,<br>TOTAL<br>RECOV-<br>FM BOT-<br>TOM MA-<br>RECOV-<br>ERABLE<br>(UG/L<br>AS FE)<br>(01045)          | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE)<br>(01046)                                           | IRON,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>RECOV-<br>ERABLE<br>(UG/L<br>AS FE)<br>(01170)          | LEAD,<br>TOTAL<br>RECOV-<br>FM BOT-<br>TOM MA-<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB)<br>(01051) | LEAD,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB)<br>(01052) |
| NOV<br>01... | 1                                                                                                          | 3                                                                                                  | <5                                                                                                | 7                                                                                                  | <1                                                                                        | 6200                                                                                                      | 42                                                                                              | 2000                                                                                             | 6                                                                                                | <10                                                                                     |
|              | MANGA-<br>NESE,<br>TOTAL<br>RECOV-<br>FM BOT-<br>TOM MA-<br>RECOV-<br>ERABLE<br>(UG/L<br>AS MN)<br>(01055) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN)<br>(01056)                                    | MANGA-<br>NESE,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG)<br>(01053) | MERCURY<br>TOTAL<br>RECOV-<br>FM BOT-<br>TOM MA-<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG)<br>(71900) | MERCURY<br>RECOV.<br>FM BOT-<br>TOM MA-<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG)<br>(71921) | SELE-<br>NIUM,<br>TOTAL<br>RECOV-<br>FM BOT-<br>TOM MA-<br>RECOV-<br>ERABLE<br>(UG/L<br>AS SE)<br>(01147) | SELE-<br>NIUM,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>RECOV-<br>ERABLE<br>(UG/L<br>AS SE)<br>(01148) | ZINC,<br>TOTAL<br>RECOV-<br>FM BOT-<br>TOM MA-<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN)<br>(01092) | ZINC,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN)<br>(01093)          |                                                                                         |
| NOV<br>01... | 470                                                                                                        | 270                                                                                                | 62                                                                                                | <0.10                                                                                              | <0.01                                                                                     | <1                                                                                                        | <1                                                                                              | 20                                                                                               | <10                                                                                              |                                                                                         |

## 07281600 TALLAHATCHIE RIVER AT MONEY, MS

LOCATION.--Lat 33°39'04", long 90°12'40", in SW1/4 sec.29, T.21 N., R.1 E., Choctaw Meridian, Leflore County, Hydrologic Unit 08030202, County code 83, at county road bridge about 9 mi north of Greenwood, MS.

DRAINAGE AREA.--5221 mi<sup>2</sup>, U.S. Army Corps of Engineers

PERIOD OF RECORD.--October 1995 to September 1996. 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.--Estimated daily discharges: Oct. 1. Records good except estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY   | JUN    | JUL   | AUG   | SEP    |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|-------|--------|
| 1     | e5820  | 2270   | 4820   | 10500  | 10600  | 5500   | 7950   | 7360  | 1730   | 1750  | 3620  | 2720   |
| 2     | 5810   | 2990   | 4160   | 10700  | 10800  | 5190   | 7140   | 5930  | 2310   | 1760  | 3570  | 3010   |
| 3     | 5800   | 3540   | 3700   | 11000  | 10900  | 5510   | 6370   | 4720  | 3330   | 1720  | 4690  | 3410   |
| 4     | 5800   | 3950   | 3490   | 11200  | 10900  | 6280   | 5600   | 3870  | 3680   | 1650  | 5440  | 3730   |
| 5     | 5790   | 4390   | 3400   | 11200  | 10800  | 6630   | 5060   | 3280  | 3310   | 1580  | 4970  | 4110   |
| 6     | 5740   | 4600   | 3210   | 11300  | 10600  | 6830   | 4700   | 2860  | 2820   | 1510  | 4210  | 5240   |
| 7     | 5690   | 4680   | 3000   | 11400  | 10400  | 7390   | 4420   | 2550  | 2440   | 1460  | 3600  | 5980   |
| 8     | 5630   | 4800   | 2980   | 11400  | 10400  | 8270   | 4140   | 2640  | 2290   | 1440  | 3190  | 6310   |
| 9     | 5590   | 4900   | 3730   | 11300  | 10500  | 8260   | 3890   | 3290  | 3300   | 1460  | 2950  | 6530   |
| 10    | 5570   | 5310   | 4550   | 11100  | 10500  | 8140   | 3670   | 3500  | 4710   | 1520  | 2880  | 6660   |
| 11    | 5540   | 5850   | 4140   | 10800  | 10300  | 8160   | 3470   | 3330  | 5400   | 1580  | 2860  | 6700   |
| 12    | 5660   | 6170   | 3690   | 10800  | 10200  | 8140   | 3320   | 2980  | 5540   | 1540  | 2840  | 6720   |
| 13    | 5850   | 6390   | 3680   | 10800  | 10100  | 8020   | 3250   | 2910  | 8690   | 1710  | 2790  | 6700   |
| 14    | 5930   | 6420   | 3870   | 10700  | 9910   | 7810   | 3180   | 2740  | 10100  | 2200  | 2720  | 6680   |
| 15    | 5960   | 6560   | 3920   | 10500  | 9660   | 7570   | 3510   | 2390  | 10300  | 2450  | 2650  | 6680   |
| 16    | 5940   | 6850   | 4470   | 10300  | 9240   | 7400   | 3820   | 2010  | 9830   | 2600  | 2580  | 6990   |
| 17    | 5910   | 7060   | 6770   | 9750   | 8530   | 7260   | 3630   | 1700  | 8870   | 2810  | 2510  | 7310   |
| 18    | 5880   | 7150   | 8930   | 9060   | 7480   | 7110   | 3370   | 1480  | 7480   | 2870  | 2460  | 7180   |
| 19    | 5780   | 7130   | 10600  | 8680   | 6170   | 7380   | 3180   | 1320  | 6370   | 2800  | 2420  | 6940   |
| 20    | 5440   | 7080   | 11200  | 8700   | 5070   | 8140   | 3110   | 1180  | 6340   | 2720  | 2390  | 6950   |
| 21    | 4860   | 7000   | 11200  | 8530   | 4630   | 7930   | 5190   | 1080  | 5870   | 2680  | 2360  | 7060   |
| 22    | 4490   | 6910   | 11200  | 8260   | 4310   | 7170   | 9800   | 1010  | 4890   | 2810  | 2360  | 7570   |
| 23    | 4310   | 6870   | 11200  | 7940   | 3900   | 6090   | 12000  | 958   | 3920   | 2820  | 2370  | 7340   |
| 24    | 4230   | 6860   | 11300  | 8310   | 3580   | 5050   | 13000  | 905   | 3140   | 2770  | 2320  | 6040   |
| 25    | 4170   | 6650   | 11300  | 9480   | 3460   | 5880   | 13500  | 860   | 2620   | 2750  | 2270  | 5440   |
| 26    | 4130   | 6380   | 11200  | 9850   | 3410   | 9260   | 13100  | 788   | 2330   | 2860  | 2230  | 5990   |
| 27    | 4130   | 6110   | 11100  | 10100  | 3410   | 10200  | 12100  | 696   | 2200   | 2910  | 2200  | 7090   |
| 28    | 4390   | 5890   | 10900  | 10400  | 3800   | 10200  | 10800  | 841   | 2190   | 3090  | 2230  | 8120   |
| 29    | 4130   | 5680   | 10800  | 10400  | 5220   | 9960   | 9830   | 1490  | 1910   | 3470  | 2420  | 8180   |
| 30    | 3180   | 5350   | 10700  | 10300  | ---    | 9500   | 8630   | 2060  | 1750   | 3470  | 2520  | 7790   |
| 31    | 2350   | ---    | 10500  | 10400  | ---    | 8800   | ---    | 1980  | ---    | 3570  | 2460  | ---    |
| TOTAL | 159500 | 171790 | 219710 | 315160 | 228780 | 235030 | 194730 | 74708 | 139660 | 72330 | 91080 | 187170 |
| MEAN  | 5145   | 5726   | 7087   | 10170  | 7889   | 7582   | 6491   | 2410  | 4655   | 2333  | 2938  | 6239   |
| MAX   | 5960   | 7150   | 11300  | 11400  | 10900  | 10200  | 13500  | 7360  | 10300  | 3570  | 5440  | 8180   |
| MIN   | 2350   | 2270   | 2980   | 7940   | 3410   | 5050   | 3110   | 696   | 1730   | 1440  | 2200  | 2720   |

## SUMMARY STATISTICS

## FOR 1996 WATER YEAR

ANNUAL TOTAL

2089648

ANNUAL MEAN

5709

HIGHEST ANNUAL MEAN

LOWEST ANNUAL MEAN

HIGHEST DAILY MEAN

13500 Apr 25

LOWEST DAILY MEAN

696 May 27

ANNUAL SEVEN-DAY MINIMUM

865 May 22

INSTANTANEOUS PEAK FLOW

13600 Apr 25

INSTANTANEOUS PEAK STAGE

29.56 Apr 25

INSTANTANEOUS LOW FLOW

678 May 27

10 PERCENT EXCEEDS

10600

50 PERCENT EXCEEDS

5420

90 PERCENT EXCEEDS

2220

e Estimated

## 07282000 YALOBUSHA RIVER AT CALHOUN CITY, MS

LOCATION.--Lat 33°50'20", long 89°18'55", 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.--305 mi<sup>2</sup>, combined drainage area of all channels.

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

REVISED RECORDS.--WRD Miss. 1970: 1969(M). WDR MS-78-1: 1977(P). WDR MS-92: 1983-85.

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: Feb. 3-13 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<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Apr. 21 | 1600 | 15,300                            | 20.62               | Apr. 23 | 0515 | *19,800                           | *22.07              |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT   | NOV  | DEC   | JAN   | FEB   | MAR   | APR   | MAY    | JUN    | JUL    | AUG   | SEP  |
|-------|-------|------|-------|-------|-------|-------|-------|--------|--------|--------|-------|------|
| 1     | 7.6   | 14   | 36    | 580   | 890   | 374   | 216   | 546    | 11     | 14     | 1250  | 234  |
| 2     | 7.1   | 41   | 32    | 3500  | 1720  | 173   | 143   | 379    | 219    | 12     | 1740  | 226  |
| 3     | 12    | 97   | 30    | 1220  | e900  | 128   | 120   | 265    | 164    | 10     | 1230  | 476  |
| 4     | 18    | 55   | 40    | 623   | e380  | 107   | 108   | 183    | 39     | 9.5    | 520   | 363  |
| 5     | 18    | 32   | 51    | 421   | e310  | 98    | 67    | 128    | 20     | 8.8    | 215   | 174  |
| 6     | 15    | 25   | 44    | 2670  | e470  | 812   | 52    | 95     | 13     | 8.3    | 108   | 107  |
| 7     | 13    | 79   | 38    | 1780  | e410  | 1950  | 46    | 71     | 9.7    | 8.0    | 81    | 83   |
| 8     | 11    | 170  | 731   | 771   | e480  | 885   | 41    | 57     | 9.9    | 459    | 61    | 67   |
| 9     | 9.8   | 69   | 3250  | 505   | e360  | 281   | 36    | 42     | 40     | 292    | 1030  | 64   |
| 10    | 8.9   | 42   | 818   | 423   | e250  | 150   | 29    | 34     | 38     | 66     | 543   | 55   |
| 11    | 8.2   | 502  | 350   | 958   | e210  | 126   | 28    | 32     | 20     | 34     | 201   | 48   |
| 12    | 7.7   | 320  | 199   | 1410  | e170  | 116   | 25    | 36     | 1990   | 22     | 830   | 42   |
| 13    | 7.4   | 110  | 138   | 718   | e160  | 111   | 32    | 32     | 2760   | 17     | 433   | 37   |
| 14    | 7.6   | 66   | 115   | 500   | 150   | 104   | 94    | 26     | 2160   | 552    | 188   | 32   |
| 15    | 7.7   | 51   | 98    | 386   | 140   | 112   | 2150  | 23     | 989    | 1340   | 107   | 29   |
| 16    | 7.4   | 39   | 842   | 320   | 123   | 101   | 746   | 19     | 346    | 714    | 76    | 1310 |
| 17    | 7.1   | 33   | 1700  | 289   | 111   | 91    | 171   | 17     | 126    | 750    | 59    | 832  |
| 18    | 7.0   | 28   | 4000  | 646   | 111   | 135   | 78    | 15     | 70     | 207    | 53    | 307  |
| 19    | 6.7   | 25   | 3810  | 908   | 116   | 1860  | 52    | 13     | 50     | 78     | 58    | 108  |
| 20    | 6.6   | 23   | 1110  | 544   | 278   | 855   | 107   | 11     | 37     | 47     | 54    | 62   |
| 21    | 6.4   | 21   | 571   | 432   | 197   | 340   | 7620  | 11     | 30     | 33     | 44    | 1080 |
| 22    | 6.1   | 20   | 382   | 354   | 150   | 169   | 3960  | 11     | 25     | 25     | 36    | 955  |
| 23    | 5.9   | 183  | 284   | 317   | 137   | 130   | 13200 | 10     | 37     | 21     | 31    | 392  |
| 24    | 5.8   | 334  | 238   | 2150  | 114   | 115   | 3460  | 8.6    | 47     | 158    | 28    | 123  |
| 25    | 5.6   | 131  | 205   | 957   | 96    | 5610  | 1410  | 7.4    | 59     | 612    | 25    | 66   |
| 26    | 5.5   | 75   | 184   | 1780  | 90    | 2600  | 834   | 6.8    | 242    | 332    | 180   | 45   |
| 27    | 67    | 56   | 165   | 2460  | 92    | 1300  | 619   | 6.0    | 62     | 337    | 144   | 393  |
| 28    | 184   | 46   | 152   | 1070  | 2100  | 696   | 493   | 30     | 31     | 1040   | 120   | 706  |
| 29    | 48    | 43   | 138   | 645   | 1200  | 514   | 631   | 49     | 21     | 597    | 105   | 475  |
| 30    | 24    | 40   | 125   | 880   | ---   | 360   | 827   | 22     | 16     | 342    | 208   | 182  |
| 31    | 17    | ---  | 213   | 1640  | ---   | 293   | ---   | 14     | ---    | 855    | 620   | ---  |
| TOTAL | 569.1 | 2770 | 20089 | 31857 | 11915 | 20696 | 37395 | 2199.8 | 9681.6 | 9000.6 | 10378 | 9073 |
| MEAN  | 18.4  | 92.3 | 648   | 1028  | 411   | 668   | 1246  | 71.0   | 323    | 290    | 335   | 302  |
| MAX   | 184   | 502  | 4000  | 3500  | 2100  | 5610  | 13200 | 546    | 2760   | 1340   | 1740  | 1310 |
| MIN   | 5.5   | 14   | 30    | 289   | 90    | 91    | 25    | 6.0    | 9.7    | 8.0    | 25    | 29   |
| CFSM  | .06   | .30  | 2.12  | 3.37  | 1.35  | 2.19  | 4.09  | .23    | 1.06   | .95    | 1.10  | .99  |
| IN.   | .07   | .34  | 2.45  | 3.89  | 1.45  | 2.52  | 4.56  | .27    | 1.18   | 1.10   | 1.27  | 1.11 |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1996, BY WATER YEAR (WY)

|      | MEAN | 48.3 | 272  | 622  | 684  | 862  | 971  | 813  | 415  | 194  | 110  | 50.4 | 61.8 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 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 | 3.8  | 1.26 | .80  | .000 |      |
| (WY) | 1954 | 1982 | 1966 | 1956 | 1963 | 1954 | 1986 | 1988 | 1988 | 1954 | 1951 | 1952 |      |

## SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1951 - 1996

|                          | ANNUAL TOTAL | 172071.9 | 165624.1 | 423         |
|--------------------------|--------------|----------|----------|-------------|
| ANNUAL MEAN              | 471          | 453      | 1171     | 1991        |
| HIGHEST ANNUAL MEAN      |              |          | 78.6     | 1986        |
| LOWEST ANNUAL MEAN       |              |          | 50800    | Dec 26 1982 |
| HIGHEST DAILY MEAN       | 13700        | Apr 23   | 5.5      | Oct 26      |
| LOWEST DAILY MEAN        | 5.5          | Oct 26   | 6.0      | Oct 20      |
| ANNUAL SEVEN-DAY MINIMUM | 6.0          | Oct 20   | 19800    | Apr 23      |
| INSTANTANEOUS PEAK FLOW  |              |          | 22.07    | Apr 23      |
| ANNUAL RUNOFF (CFSM)     | 1.55         | 1.48     | 25.75    | Dec 26 1982 |
| ANNUAL RUNOFF (INCHES)   | 20.99        | 20.20    | 18.84    |             |
| 10 PERCENT EXCEEDS       | 784          | 1090     | 893      |             |
| 50 PERCENT EXCEEDS       | 65           | 115      | 39       |             |
| 90 PERCENT EXCEEDS       | 7.4          | 11       | 2.0      |             |

e Estimated



## YAZOO RIVER BASIN

07283000 SKUNA RIVER AT BRUCE, MS  
(National Water-Quality Assessment station)

LOCATION.--Lat 33°58'25", long 89°20'50", in SW1/4 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>.

## WATER-DISCHARGE RECORDS

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: Apr. 23 - May 7. Records are good except for estimated daily discharges, which are poor. Satellite 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) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Dec. 9  | 0115 | 5,070                             | 15.68               | Mar. 25 | 1130 | 11,100                            | 20.97               |
| Dec. 18 | 2345 | 8,980                             | 19.34               | Apr. 21 | 1815 | 8,570                             | 19.01               |
| Jan. 6  | 1830 | 5,920                             | 16.59               | Apr. 23 | 0600 | *22,700                           | *26.60              |
| Jan. 24 | 0830 | 6,510                             | 17.17               | Jun. 13 | 1600 | 5,280                             | 15.91               |
| Feb. 28 | 0930 | 7,360                             | 17.97               |         |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT   | NOV  | DEC   | JAN   | FEB   | MAR   | APR    | MAY    | JUN    | JUL    | AUG    | SE'    |
|-------|-------|------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 1     | 9.2   | 11   | 17    | 918   | 231   | 358   | 130    | e172   | 13     | 9.8    | 205    | 14     |
| 2     | 9.5   | 16   | 16    | 1920  | 361   | 278   | 103    | e148   | 73     | 9.3    | 563    | 15     |
| 3     | 9.5   | 26   | 17    | 514   | 336   | 216   | 91     | e125   | 35     | 8.8    | 279    | 17     |
| 4     | 9.5   | 16   | 40    | 275   | 279   | 176   | 80     | e104   | 19     | 7.8    | 90     | 37     |
| 5     | 10    | 12   | 28    | 204   | 255   | 163   | 76     | e83    | 13     | 7.3    | 45     | 16     |
| 6     | 8.9   | 18   | 20    | 2910  | 170   | 647   | 72     | e69    | 10     | 7.3    | 30     | 12     |
| 7     | 9.0   | 90   | 18    | 1270  | 489   | 1790  | 63     | e56    | 9.4    | 7.3    | 24     | 11     |
| 8     | 8.6   | 111  | 945   | 374   | 1300  | 476   | 56     | 53     | 866    | 466    | 22     | 13     |
| 9     | 8.4   | 35   | 2140  | 260   | 1290  | 295   | 49     | 45     | 484    | 336    | 183    | 10     |
| 10    | 8.2   | 21   | 309   | 218   | 532   | 233   | 43     | 37     | 100    | 55     | 44     | 8.8    |
| 11    | 8.1   | 192  | 162   | 1290  | 337   | 193   | 40     | 75     | 42     | 23     | 34     | 8.2    |
| 12    | 7.9   | 134  | 121   | 1900  | 235   | 171   | 38     | 112    | 69     | 15     | 272    | 7.6    |
| 13    | 7.8   | 48   | 96    | 447   | 183   | 154   | 41     | 52     | 2290   | 12     | 65     | 7.1    |
| 14    | 7.6   | 30   | 74    | 277   | 163   | 138   | 54     | 38     | 717    | 131    | e30    | 6.9    |
| 15    | 7.3   | 25   | 75    | 204   | 144   | 129   | 418    | 42     | 185    | 226    | 21     | 6.8    |
| 16    | 7.0   | 20   | 1300  | 167   | 122   | 129   | 136    | 35     | 94     | 54     | 15     | 238    |
| 17    | 6.8   | 18   | 1700  | 144   | 108   | 122   | 79     | 27     | 62     | 67     | 13     | 72     |
| 18    | 7.0   | 16   | 3840  | 643   | 108   | 169   | 55     | 24     | 42     | 22     | 13     | 24     |
| 19    | 7.1   | 15   | 3260  | 780   | 167   | 1290  | 45     | 21     | 33     | 13     | 12     | 14     |
| 20    | 6.8   | 14   | 502   | 287   | 554   | 408   | 45     | 20     | 27     | 10     | 11     | 11     |
| 21    | 7.2   | 13   | 276   | 221   | 285   | 264   | 3260   | 16     | 23     | 8.9    | 10     | 1700   |
| 22    | 7.4   | 12   | 196   | 178   | 204   | 197   | 1840   | 14     | 20     | 8.3    | 10     | 365    |
| 23    | 7.3   | 73   | 150   | 158   | 165   | 157   | e12000 | 14     | 25     | 10     | 9.5    | 102    |
| 24    | 6.8   | 127  | 122   | 3350  | 130   | 135   | e1620  | 13     | 18     | 266    | 9.3    | 51     |
| 25    | 7.2   | 53   | 104   | 605   | 108   | 5550  | e891   | 12     | 15     | 652    | 9.3    | 35     |
| 26    | 7.6   | 33   | 90    | 1100  | 99    | 968   | e647   | 11     | 14     | 148    | 9.2    | 28     |
| 27    | 90    | 31   | 78    | 1220  | 100   | 450   | e462   | 9.8    | 12     | 285    | 99     | 797    |
| 28    | 120   | 22   | 67    | 408   | 3750  | 312   | e359   | 22     | 11     | 281    | 154    | 492    |
| 29    | 24    | 19   | 58    | 313   | 668   | 243   | e274   | 23     | 11     | 61     | 35     | 198    |
| 30    | 14    | 18   | 55    | 281   | ---   | 187   | e215   | 20     | 10     | 30     | 25     | 82     |
| 31    | 12    | ---  | 598   | 270   | ---   | 161   | ---    | 14     | ---    | 241    | 17     | ---    |
| TOTAL | 467.7 | 1269 | 16474 | 23106 | 12873 | 16159 | 23282  | 1506.8 | 5342.4 | 3478.8 | 2358.3 | 4399.4 |
| MEAN  | 15.1  | 42.3 | 531   | 745   | 444   | 521   | 776    | 48.6   | 178    | 112    | 76.1   | 147    |
| MAX   | 120   | 192  | 3840  | 3350  | 3750  | 5550  | 12000  | 172    | 2290   | 652    | 563    | 1700   |
| MIN   | 6.8   | 11   | 16    | 144   | 99    | 122   | 38     | 9.8    | 9.4    | 7.3    | 9.2    | 6.8    |
| CFSM  | .06   | .17  | 2.09  | 2.93  | 1.75  | 2.05  | 3.06   | .19    | .70    | .44    | .30    | .58    |
| IN.   | .07   | .19  | 2.41  | 3.38  | 1.89  | 2.37  | 3.41   | .22    | .78    | .51    | .35    | .64    |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 1996, BY WATER YEAR (WY)

|      | MEAN | 46.4 | 248  | 492  | 585  | 758  | 850  | 643  | 332  | 191  | 101  | 57.9 | 77.4 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MAX  | 389  | 1922 | 3035 | 2091 | 2703 | 3426 | 2356 | 1481 | 1001 | 661  | 460  | 895  |      |
| (WY) | 1985 | 1958 | 1983 | 1949 | 1991 | 1973 | 1991 | 1991 | 1986 | 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 1995 CALENDAR YEAR

## FOR 1996 WATER YEAR

## WATER YEARS 1948 - 1996

|                          |          |          |        |
|--------------------------|----------|----------|--------|
| ANNUAL TOTAL             | 143090.7 | 110716.4 |        |
| ANNUAL MEAN              | 392      | 303      | 363    |
| HIGHEST ANNUAL MEAN      |          |          | 767    |
| LOWEST ANNUAL MEAN       |          |          | 74.6   |
| HIGHEST DAILY MEAN       | 18500    | Mar 7    | 35100  |
| LOWEST DAILY MEAN        | 6.8      | Oct 17   | 1.0    |
| ANNUAL SEVEN-DAY MINIMUM | 7.0      | Oct 15   | 1.1    |
| INSTANTANEOUS PEAK FLOW  |          |          | 61400a |
| INSTANTANEOUS PEAK STAGE |          |          | 34.41  |
| ANNUAL RUNOFF (CFSM)     | 1.54     |          | 1.43   |
| ANNUAL RUNOFF (INCHES)   | 20.96    |          | 19.42  |
| 10 PERCENT EXCEEDS       | 573      | 647      | 722    |
| 50 PERCENT EXCEEDS       | 57       | 68       | 45     |
| 90 PERCENT EXCEEDS       | 8.3      | 9.3      | 6.7    |

e Estimated

a From rating curve extended above 19,000 ft<sup>3</sup>/s on basis of indirect measurement.

07283000 SKUNA RIVER AT BRUCE, MS--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970, 1972, 1996 to current year.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE  | TIME | DEPTH<br>AT<br>SAMPLE<br>LOC-<br>ATION,<br>TOTAL<br>(FEET)<br>(81903) | SAMPLE<br>LOC-<br>ATION,<br>CROSS<br>SECTION<br>(FT FM<br>L BANK)<br>(00009) | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L)<br>(80154) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM<br>(70331) |
|-------|------|-----------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------------|
| OCT   |      |                                                                       |                                                                              |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                       |                                                                          |
| 20... | 0930 | --                                                                    | --                                                                           | 7.0                                                                   | 242                                                          | 6.7                                                                  | 19.0                                            | 7.8                                            | --                                                    | --                                                                       |
| JAN   |      |                                                                       |                                                                              |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                       |                                                                          |
| 24... | 1400 | 1.00                                                                  | 10.0                                                                         | --                                                                    | 54                                                           | 5.7                                                                  | 9.0                                             | 10.0                                           | --                                                    | --                                                                       |
| 24... | 1402 | 1.00                                                                  | 30.0                                                                         | --                                                                    | 54                                                           | 6.0                                                                  | 9.0                                             | 11.0                                           | --                                                    | --                                                                       |
| 24... | 1404 | 1.00                                                                  | 50.0                                                                         | --                                                                    | 54                                                           | 6.0                                                                  | 9.0                                             | 11.1                                           | --                                                    | --                                                                       |
| 24... | 1405 | 1.00                                                                  | 70.0                                                                         | --                                                                    | 54                                                           | 6.0                                                                  | 9.0                                             | 11.2                                           | --                                                    | --                                                                       |
| 24... | 1406 | 1.00                                                                  | 90.0                                                                         | --                                                                    | 54                                                           | 6.0                                                                  | 9.0                                             | 11.2                                           | --                                                    | --                                                                       |
| 24... | 1407 | 1.00                                                                  | 110                                                                          | --                                                                    | 55                                                           | 6.0                                                                  | 9.0                                             | 11.2                                           | --                                                    | --                                                                       |
| 24... | 1408 | 1.00                                                                  | 130                                                                          | --                                                                    | 55                                                           | 6.1                                                                  | 9.0                                             | 11.1                                           | --                                                    | --                                                                       |
| 24... | 1409 | 1.00                                                                  | 150                                                                          | --                                                                    | 55                                                           | 6.1                                                                  | 9.0                                             | 11.0                                           | --                                                    | --                                                                       |
| 24... | 1415 | --                                                                    | --                                                                           | 3570                                                                  | 55                                                           | 6.0                                                                  | 9.0                                             | 11.1                                           | 801                                                   | 88                                                                       |
| FEB   |      |                                                                       |                                                                              |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                       |                                                                          |
| 15... | 1230 | --                                                                    | --                                                                           | 143                                                                   | 147                                                          | 6.7                                                                  | 11.0                                            | 11.4                                           | 56                                                    | 86                                                                       |
| 27... | 0900 | --                                                                    | --                                                                           | 94                                                                    | 183                                                          | 7.2                                                                  | 17.0                                            | 8.5                                            | --                                                    | --                                                                       |
| MAR   |      |                                                                       |                                                                              |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                       |                                                                          |
| 26... | 1100 | --                                                                    | --                                                                           | 859                                                                   | 65                                                           | 6.2                                                                  | 12.0                                            | 10.9                                           | 265                                                   | 96                                                                       |
| APR   |      |                                                                       |                                                                              |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                       |                                                                          |
| 17... | 1240 | --                                                                    | --                                                                           | 74                                                                    | 191                                                          | 6.9                                                                  | 19.0                                            | 8.8                                            | 55                                                    | 84                                                                       |
| MAY   |      |                                                                       |                                                                              |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                       |                                                                          |
| 10... | 0945 | --                                                                    | --                                                                           | 38                                                                    | 191                                                          | 6.8                                                                  | 24.5                                            | 7.6                                            | 44                                                    | 92                                                                       |
| 22... | 1100 | --                                                                    | --                                                                           | 14                                                                    | 205                                                          | 7.2                                                                  | 26.5                                            | 7.6                                            | --                                                    | --                                                                       |
| JUN   |      |                                                                       |                                                                              |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                       |                                                                          |
| 26... | 1515 | --                                                                    | --                                                                           | 14                                                                    | 178                                                          | 6.9                                                                  | 34.0                                            | 8.1                                            | 15                                                    | 67                                                                       |
| JUL   |      |                                                                       |                                                                              |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                       |                                                                          |
| 24... | 1400 | --                                                                    | --                                                                           | 693                                                                   | 85                                                           | 5.9                                                                  | 25.5                                            | 8.3                                            | 3920                                                  | 98                                                                       |
| AUG   |      |                                                                       |                                                                              |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                       |                                                                          |
| 13... | 1430 | --                                                                    | --                                                                           | 54                                                                    | 86                                                           | 6.7                                                                  | 29.5                                            | 6.9                                            | --                                                    | --                                                                       |
| 27... | 1140 | --                                                                    | --                                                                           | 11                                                                    | 195                                                          | 7.1                                                                  | 29.5                                            | 8.9                                            | 11                                                    | 77                                                                       |
| SEP   |      |                                                                       |                                                                              |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                       |                                                                          |
| 10... | 1250 | --                                                                    | --                                                                           | 8.8                                                                   | 200                                                          | 7.3                                                                  | 30.5                                            | 8.3                                            | 27                                                    | 96                                                                       |

| DATE  | TIME | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML)<br>(31625) | E. COLI<br>WATER<br>WHOLE<br>TOTAL<br>UREASE<br>(COL /<br>100 ML)<br>(31633) | 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) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA)<br>(00930) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K)<br>(00935) | BICAR-<br>BONATE<br>WATER<br>DIS IT<br>FIELD<br>MG/L AS<br>HCO3<br>(00453) | ALKA-<br>LINITY<br>WAT DIS<br>TOT IT<br>FIELD<br>MG/L AS<br>CACO3<br>(39086) |
|-------|------|---------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------|
| FEB   |      |                                                                           |                                                                              |                                                         |                                                                 |                                                         |                                                                |                                                                            |                                                                              |
| 15... | 1230 | K16                                                                       | K12                                                                          | 9.4                                                     | 4.5                                                             | 9.7                                                     | 1.7                                                            | 14                                                                         | 12                                                                           |
| MAR   |      |                                                                           |                                                                              |                                                         |                                                                 |                                                         |                                                                |                                                                            |                                                                              |
| 26... | 1100 | 1000                                                                      | <1300                                                                        | 4.2                                                     | 1.8                                                             | 4.1                                                     | 1.7                                                            | 8                                                                          | 7                                                                            |
| APR   |      |                                                                           |                                                                              |                                                         |                                                                 |                                                         |                                                                |                                                                            |                                                                              |
| 17... | 1240 | --                                                                        | --                                                                           | 15                                                      | 5.6                                                             | 10                                                      | 2.3                                                            | 26                                                                         | 21                                                                           |
| MAY   |      |                                                                           |                                                                              |                                                         |                                                                 |                                                         |                                                                |                                                                            |                                                                              |
| 10... | 0945 | --                                                                        | --                                                                           | 11                                                      | 5.1                                                             | 14                                                      | 2.1                                                            | 21                                                                         | 25                                                                           |
| JUN   |      |                                                                           |                                                                              |                                                         |                                                                 |                                                         |                                                                |                                                                            |                                                                              |
| 26... | 1515 | --                                                                        | --                                                                           | 11                                                      | 4.8                                                             | 14                                                      | 2.7                                                            | 25                                                                         | 31                                                                           |
| JUL   |      |                                                                           |                                                                              |                                                         |                                                                 |                                                         |                                                                |                                                                            |                                                                              |
| 24... | 1400 | --                                                                        | --                                                                           | 3.4                                                     | 1.5                                                             | 7.6                                                     | 2.4                                                            | 7                                                                          | 6                                                                            |
| AUG   |      |                                                                           |                                                                              |                                                         |                                                                 |                                                         |                                                                |                                                                            |                                                                              |
| 27... | 1140 | --                                                                        | --                                                                           | 11                                                      | 5.3                                                             | 16                                                      | 2.8                                                            | 49                                                                         | 40                                                                           |
| SEP   |      |                                                                           |                                                                              |                                                         |                                                                 |                                                         |                                                                |                                                                            |                                                                              |
| 10... | 1250 | --                                                                        | --                                                                           | 11                                                      | 5.9                                                             | 14                                                      | 3.6                                                            | 32                                                                         | 26                                                                           |

## YAZOO RIVER BASIN

07283000 SKUNA RIVER AT BRUCE, MS--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE         | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4)<br>(00945) | 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) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SIO2)<br>(00955) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | 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) |
|--------------|----------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| FEB<br>15... | 35                                                       | 11                                                             | <0.10                                                         | 13                                                           | 104                                                                           | 0.010                                                                    | <0.050                                                                   | 0.130                                                                    | <0.20                                                                         |
| MAR<br>26... | 13                                                       | 4.5                                                            | <0.10                                                         | 7.9                                                          | 61                                                                            | <0.010                                                                   | 0.120                                                                    | 0.040                                                                    | 0.70                                                                          |
| APR<br>17... | 41                                                       | 14                                                             | <0.10                                                         | 12                                                           | 128                                                                           | <0.010                                                                   | 0.100                                                                    | 0.020                                                                    | 0.60                                                                          |
| MAY<br>10... | 41                                                       | 15                                                             | <0.10                                                         | 16                                                           | 116                                                                           | <0.010                                                                   | 0.090                                                                    | 0.020                                                                    | 0.30                                                                          |
| JUN<br>26... | 29                                                       | 14                                                             | 0.10                                                          | 17                                                           | 108                                                                           | <0.010                                                                   | <0.050                                                                   | <0.015                                                                   | 0.30                                                                          |
| JUL<br>24... | 13                                                       | 8.7                                                            | 0.10                                                          | 5.2                                                          | 66                                                                            | 0.020                                                                    | 0.420                                                                    | 0.110                                                                    | 1.8                                                                           |
| AUG<br>27... | 27                                                       | 15                                                             | 0.10                                                          | 14                                                           | 121                                                                           | <0.010                                                                   | <0.050                                                                   | <0.015                                                                   | 0.40                                                                          |
| SEP<br>10... | 35                                                       | 16                                                             | 0.10                                                          | 13                                                           | 116                                                                           | <0.010                                                                   | 0.060                                                                    | <0.015                                                                   | 0.40                                                                          |

| DATE         | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>DIS.<br>(MG/L<br>AS N)<br>(00623) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | 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) | 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) | CARBON,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS C)<br>(00681) | CARBON,<br>ORGANIC<br>SUS-<br>PENDEED<br>TOTAL<br>(MG/L<br>AS C)<br>(00689) |
|--------------|------------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------|
| FEB<br>15... | <0.20                                                                        | 0.030                                                 | 0.010                                                          | 0.010                                                                    | 88                                                    | 170                                                             | 2.9                                                               | 0.30                                                                        |
| MAR<br>26... | 0.40                                                                         | 0.170                                                 | 0.040                                                          | 0.030                                                                    | 150                                                   | 200                                                             | 6.0                                                               | 3.2                                                                         |
| APR<br>17... | 0.40                                                                         | 0.090                                                 | 0.030                                                          | 0.030                                                                    | 340                                                   | 200                                                             | 7.0                                                               | 1.7                                                                         |
| MAY<br>10... | 0.20                                                                         | 0.020                                                 | <0.010                                                         | <0.010                                                                   | 130                                                   | 180                                                             | 3.4                                                               | 0.70                                                                        |
| JUN<br>26... | <0.20                                                                        | 0.030                                                 | <0.010                                                         | <0.010                                                                   | 200                                                   | 47                                                              | 5.4                                                               | 0.80                                                                        |
| JUL<br>24... | <0.20                                                                        | 0.580                                                 | <0.010                                                         | 0.020                                                                    | 10                                                    | 270                                                             | 4.1                                                               | 6.8                                                                         |
| AUG<br>27... | 0.30                                                                         | 0.020                                                 | <0.010                                                         | <0.010                                                                   | 130                                                   | 96                                                              | 4.2                                                               | 0.90                                                                        |
| SEP<br>10... | <0.20                                                                        | 0.050                                                 | 0.010                                                          | <0.010                                                                   | 130                                                   | 120                                                             | 4.1                                                               | 1.4                                                                         |

## BED SEDIMENT DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE         | CALCIUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34830) | MAGNE-<br>SIUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34900) | SODIUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34960) | POTAS-<br>SIUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34940) | SULFUR<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34970) | PHOS-<br>PHORUS<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34935) | ALUM-<br>INUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34790) | ANTI-<br>MONY<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34795) | ARSENIC<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34800) | BARIUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34805) | BERYL-<br>LIUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34810) | BISMUTH<br>BOT MAT<br><180UWS<br>FIELD<br>PERCENT<br>(34816) |
|--------------|--------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------|
| OCT<br>20... | 0.40                                                         | 0.53                                                                | 0.40                                                        | 1.3                                                                 | <0.05                                                       | 0.06                                                                 | 5.9                                                                | 0.5                                                                | 5.9                                                          | 640                                                         | 2                                                                   | <10                                                          |

| DATE         | CADMIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34825) | CERIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34835) | CHRO-<br>MIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34840) | COBALT<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34845) | COPPER<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34850) | EURO-<br>PIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34855) | GALLIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34860) | GOLD<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34870) | HOLMIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34875) | IRON<br>BOT MAT<br><63U WS<br>PERCENT<br>(34880) | LANTHA-<br>NUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34885) | LEAD<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34890) |
|--------------|-------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------|
| OCT<br>20... | 0.1                                                         | 72                                                         | 71                                                                | 19                                                         | 11                                                         | <2                                                                | 12                                                          | <8                                                       | <4                                                          | 3.0                                              | 33                                                                 | 19                                                       |

07283000 SKUNA RIVER AT BRUCE, MS--Continued

## BED SEDIMENT DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE         | LITHIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34895)             | MANGA-<br>NESE<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34905)                 | MERCURY<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34910)                       | MOLYB-<br>DENUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34915)                 | NEODYM-<br>IUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34920)                   | NICKEL<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34925)                          | NIOBIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34930)                       | SCAN-<br>DIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34945)                  | SELE-<br>NIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34950)                    | SILVER<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34955)                             | STRON-<br>TIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34965)                   | TANTA-<br>LUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34975)                     |
|--------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| OCT<br>20... | 30                                                                      | 2500                                                                               | 0.03                                                                              | <2                                                                                  | 28                                                                                   | 25                                                                                  | 14                                                                                | 10                                                                                 | 0.3                                                                                  | 0.1                                                                                    | 130                                                                                  | <40                                                                                   |
| DATE         | THORIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34980)             | TIN<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34985)                            | TITA-<br>NIUM,<br>SED, BM<br>WS, <63U<br>DRY WGT<br>REC<br>(49274)                | URANIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(35000)                         | VANA-<br>DIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(35005)                    | YTTER-<br>BIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(35015)                  | YTTRIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(35010)                       | ZINC<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(35020)                           | CARBON,<br>ORGANIC<br>SED, BM<br>WS, <63U<br>DW, REC<br>(PER-<br>CENT)<br>(49266)    | CARBON,<br>ORGANIC<br>SED, BM<br>WS, <63U<br>DW, REC<br>(G/KG)<br>(49271)              | CARBON,<br>INORG,<br>SED, BM<br>WS, <63U<br>DW, REC<br>(PER-<br>CENT)<br>(49269)     | CARBON,<br>INORG,<br>SED, BM<br>WS, <63U<br>DW, REC<br>(G/KG)<br>(49270)              |
| OCT<br>20... | 8                                                                       | <10                                                                                | 0.350                                                                             | 3.4                                                                                 | 100                                                                                  | 2                                                                                   | 18                                                                                | 68                                                                                 | 1.57                                                                                 | 7.30                                                                                   | 0.05                                                                                 | <0.100                                                                                |
| DATE         | PCB,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49459)            | ALPHA-<br>BHC,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49338)             | BETA-<br>BHC,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49339)             | ALDRIN,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49319)                     | CIS-<br>CHLOR-<br>DANE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49320)      | OXY-<br>CHLOR-<br>DANE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49318)     | TRANS-<br>CHLOR-<br>DANE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49321) | CHLORO-<br>NEB,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49322)            | DCPA,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49324)                        | O, P'-<br>DDD,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49325)                 | P, P'-<br>DDD,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49326)               | O, P'-<br>DDE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49327)                |
| OCT<br>20... | <50                                                                     | <1.00                                                                              | <1.00                                                                             | <1.00                                                                               | <1.00                                                                                | <1.00                                                                               | <1.00                                                                             | <5.00                                                                              | <5.00                                                                                | <1.00                                                                                  | 1.50                                                                                 | <1.00                                                                                 |
| DATE         | P, P'-<br>DDE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49328)  | O, P'-<br>DDT,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49329)             | P, P'-<br>DDT,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49330)            | DIEL-<br>DRIN,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49331)              | ENDO-<br>SULFAN<br>I,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49332)        | ENDRIN,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49335)                     | HEPTA-<br>CHLOR,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49341)          | HEPTA-<br>CHLOR<br>EPOXIDE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49342) | ISODRIN<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49344)                      | LINDANE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49345)                        | METHOXY<br>CHLOR,<br>O, P'-,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49347) | METHOXY<br>CHLOR<br>P, P'-,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49346)   |
| OCT<br>20... | 1.20                                                                    | <2.00                                                                              | <2.00                                                                             | <1.00                                                                               | <1.00                                                                                | <2.00                                                                               | <1.00                                                                             | <1.00                                                                              | <1.00                                                                                | <1.00                                                                                  | <5.00                                                                                | <5.00                                                                                 |
| DATE         | MIREX,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49348)          | CIS-<br>NONA-<br>CHLOR,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49316)    | TRANS-<br>NONA-<br>CHLOR,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49317) | CIS-<br>PER-<br>METHRIN<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49349)     | TRANS-<br>PER-<br>METHRIN<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49350)    | TOXA-<br>PHENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49351)              | ACENAPH-<br>THENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49429)         | ACENAPH-<br>THYLENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49428)        | ACRI-<br>DINE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49430)                | PHENOL<br>C8-<br>ALKYL-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49424)        | ANTHRA-<br>CENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49434)              | 9,10-<br>ANTHRA-<br>QUINONE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49437)   |
| OCT<br>20... | <1.00                                                                   | <1.00                                                                              | <1.00                                                                             | <5.00                                                                               | <5.00                                                                                | <200                                                                                | <50                                                                               | E13                                                                                | <50                                                                                  | <50                                                                                    | <50                                                                                  | <50                                                                                   |
| DATE         | AZO-<br>BENZENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49443) | BENZ(A)<br>ANTHRA-<br>CENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49436) | BENZOCI<br>NNOLINE<br>BED MAT<br>WS, <2MM<br>DRY WGT<br>REC<br>(49468)            | BENZOB<br>FLUOR-<br>ANTHENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49458) | BENZO K<br>FLUOR-<br>ANTHENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49397) | BENZO(G<br>HI) PERY<br>LENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49408) | BENZO<br>(A)<br>PYRENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49389)    | 2,2'-BI<br>QUINO-<br>LINE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49391) | METHANE<br>2CHLORO<br>ETHOXY<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49401) | PHTHALA<br>TE, BIS2<br>ETHHEXL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49426) | 4-BROMO<br>PHNPHNL<br>ETHER<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49454)  | PHTHALA<br>TEBUTYL<br>BENZYL-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49427) |
| OCT<br>20... | <50                                                                     | <50                                                                                | <50                                                                               | <50                                                                                 | <50                                                                                  | <50                                                                                 | <50                                                                               | <50                                                                                | <50                                                                                  | 54                                                                                     | <50                                                                                  | 53                                                                                    |

## YAZOO RIVER BASIN

07283000 SKUNA RIVER AT BRUCE, MS--Continued

## BED SEDIMENT DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

|              |                                                                                                |                                                                                                |                                                                                               |                                                                                               |                                                                                               |                                                                                                |                                                                                               |                                                                                               |                                                                                              |                                                                                               |                                                                                                |                                                                                             |
|--------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
|              | CARBA-<br>ZOLE<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49449)                 | M-CRE-<br>SOL, 4-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49422)   | NAPTHAL<br>ENE, 2-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49407) | PHENOL,<br>2CHLORO<br>BED MAT<br>WS <2MM<br>DATE<br>REC<br>(UG/KG)<br>(49467)                 | 4CHLORO<br>PHNPHN<br>LEATHER<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49455)  | CHRY-<br>SENE<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49450)                  | P-<br>CRESOL<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49451)                  | DIBENZ<br>(AH), AN<br>THRACEN<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49461) | THIOPH<br>ENE, DI-<br>BENZO-<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49452) | PHTHAL-<br>ATE, D<br>DIBUTYL<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49381)  | BENZENE<br>O-DI-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49439)    | BENZENE<br>M-DI-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49441) |
| OCT<br>20... | <50                                                                                            | <50                                                                                            | <50                                                                                           | <50                                                                                           | <50                                                                                           | <50                                                                                            | E14                                                                                           | <50                                                                                           | <50                                                                                          | 53                                                                                            | <50                                                                                            | <50                                                                                         |
|              | BENZENE<br>P-DI-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49442)    | PHTHAL-<br>ATE, D<br>IETHYL<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49383)    | NAPTHAL<br>ENE, 12<br>DIMETHL<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49403) | NAPTHAL<br>ENE, 16<br>DIMETHL<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49404) | NAPTHAL<br>ENE, 26<br>DIMETHL<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49406) | 3,5-<br>XYLENOL<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49421)                | PHTHAL-<br>ATE, DI-<br>METHYL<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49384) | TOLUENE<br>2,4-DI-<br>NITRO-<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49395)  | TOLUENE<br>2,6-DI-<br>NITRO-<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49396) | PHTHAL<br>ATE, D<br>IOCTYL<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49382)    | NAPTHAL<br>ENE, 2-<br>ETHYL-<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49948)   | FLUOR-<br>ANTHENE<br>BED MAT<br>WS <2MM<br>DATE<br>REC<br>(UG/KG)<br>(49466)                |
| OCT<br>20... | <50                                                                                            | E21                                                                                            | <50                                                                                           | E9.0                                                                                          | E17                                                                                           | <50                                                                                            | E10                                                                                           | <50                                                                                           | <50                                                                                          | <50                                                                                           | <50.0                                                                                          | E20                                                                                         |
|              | 9H-FLU-<br>ORENE<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49399)               | BENZENE<br>HEXA-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49343)    | INDENO<br>123-CD<br>PYRENE<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49390)    | ISOPHOR<br>ONE<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49400)                | ISO-<br>QUINO-<br>LINE,<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49394)       | ANTHRA-<br>CENE, 2-<br>METHYL-<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49435) | 9H-FLU-<br>ORENE,<br>1METHYL<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49398)  | PHENAN<br>THRENE<br>1METHYL<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49410)   | PYRENE,<br>1-<br>METHYL,<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49388)     | 4HCYPEN<br>PHENAN<br>THRENE<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49411)   | NAPHTH-<br>ALENE,<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49402)              | BENZENE<br>NITRO-<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49444)           |
| OCT<br>20... | <50                                                                                            | <50.0                                                                                          | <50                                                                                           | <50                                                                                           | <50                                                                                           | <50                                                                                            | <50                                                                                           | <50                                                                                           | <50                                                                                          | <50                                                                                           | E13                                                                                            | <50                                                                                         |
|              | DPROPYL<br>AMINE, N<br>NITROSO<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49431) | DIPHNYL<br>AMINE, N<br>NITROSO<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49433) | PENTA-<br>CHLORO-<br>ANISOLE<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49460)  | BENZENE<br>PNTCHLR<br>NITRO-<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49446)  | PHENAN<br>THRENE<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49409)              | PHENAN-<br>THRI-<br>DINE<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49393)       | PHENOL<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49413)                        | PYRENE,<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49387)                       | QUINO-<br>LINE,<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49392)              | BENZENE<br>124TRI-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49438) | NAPTHAL<br>ENE, 236<br>TRIMETH<br>SED, BM<br>WS, <2MM<br>DATE<br>DW, REC<br>(UG/KG)<br>(49405) |                                                                                             |
| OCT<br>20... | <50                                                                                            | <50                                                                                            | <50                                                                                           | <50                                                                                           | <5.0                                                                                          | <50                                                                                            | E17                                                                                           | E23                                                                                           | <50                                                                                          | <50                                                                                           | <50                                                                                            |                                                                                             |

## FISH LIVER DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

|              | ALUMI-<br>NUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>DATE<br>REC<br>(UG/G)<br>(49237) | ANTI-<br>MONY,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>DATE<br>REC<br>(UG/G)<br>(49246)  | ARSENIC<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>DATE<br>REC<br>(UG/G)<br>(49247) | BARIUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>DATE<br>REC<br>(UG/G)<br>(49238)          | BERYL-<br>LIUM-,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>DATE<br>REC<br>(UG/G)<br>(49248) | BORON,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>DATE<br>REC<br>(UG/G)<br>(49239)         | CADMIUM<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>DATE<br>REC<br>(UG/G)<br>(49249) | CHROM-<br>IUM-,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>DATE<br>REC<br>(UG/G)<br>(49240) | COBALT,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>DATE<br>REC<br>(UG/G)<br>(49250) | COPPER,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>DATE<br>REC<br>(UG/G)<br>(49241)       | IRON,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>DATE<br>REC<br>(UG/G)<br>(49242) |
|--------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| OCT<br>20... | 8.4                                                                                | <0.1                                                                                | 0.3                                                                         | <0.1                                                                                 | <0.1                                                                                 | 0.3                                                                                | 1.2                                                                         | <0.5                                                                                | 0.3                                                                         | 84                                                                                | 1500                                                                      |
|              | LEAD,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>DATE<br>REC<br>(UG/G)<br>(49251)          | MANGAN-<br>ESE,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>DATE<br>REC<br>(UG/G)<br>(49243) | MERCURY<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>DATE<br>REC<br>(UG/G)<br>(49258) | MOLYB-<br>DENUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>DATE<br>REC<br>(UG/G)<br>(49252) | NICKEL,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>DATE<br>REC<br>(UG/G)<br>(49253)          | SELEN-<br>IUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>DATE<br>REC<br>(UG/G)<br>(49254) | SILVER,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>DATE<br>REC<br>(UG/G)<br>(49255) | STRON-<br>TIUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>DATE<br>REC<br>(UG/G)<br>(49244) | URANIUM<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>DATE<br>REC<br>(UG/G)<br>(49257) | VANA-<br>DIUM<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>DATE<br>REC<br>(UG/G)<br>(49465) | ZINC,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>DATE<br>REC<br>(UG/G)<br>(49245) |
| OCT<br>20... | <0.1                                                                               | 20                                                                                  | 0.2                                                                         | 0.9                                                                                  | 0.2                                                                                  | 5.2                                                                                | 0.3                                                                         | 0.7                                                                                 | <0.1                                                                        | 2.0                                                                               | 660                                                                       |



## FISH TISSUE DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

|              | PCB,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49354)          | ALPHA-<br>BHC,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49366)              | BETA-<br>BHC,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49365)               | DELTA-<br>BHC,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49364) | ALDRIN,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49353)                 | CIS-<br>CHLOR-<br>DANE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49380)   | OXY-<br>CHLOR<br>DANE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49357) | TRANS-<br>CHLOR-<br>DANE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49379) | DCPA,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49378)                      | O,P'-<br>DDD,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49374) |
|--------------|--------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------|
| DATE         | WW, REC<br>(UG/KG)<br>(49354)                                      | WW, REC<br>(UG/KG)<br>(49366)                                                    | WW, REC<br>(UG/KG)<br>(49365)                                                    | WW, REC<br>(UG/KG)<br>(49364)                                       | WW, REC<br>(UG/KG)<br>(49353)                                                | WW, REC<br>(UG/KG)<br>(49380)                                                  | WW, REC<br>(UG/KG)<br>(49357)                                               | WW, REC<br>(UG/KG)<br>(49379)                                                  | WW, REC<br>(UG/KG)<br>(49378)                                                   | WW, REC<br>(UG/KG)<br>(49374)                                      |
| OCT<br>20... | <50.0                                                              | <5.00                                                                            | <5.60                                                                            | <5.00                                                               | <5.00                                                                        | <5.00                                                                          | <5.00                                                                       | <5.00                                                                          | <5.00                                                                           | 12.0                                                               |
|              | P,P'-<br>DDD,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49375) | O,P'-<br>DDE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49373)               | P,P'-<br>DDE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49372)               | O,P'-<br>DDT,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49377)  | P,P'-<br>DDT,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49376)           | DIEL-<br>DRIN,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49371)            | ENDRIN,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49370)                | HEPTA-<br>CHLOR,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49369)          | EPOXIDE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49368)                   | LINDANE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49363)      |
| DATE         | WW, REC<br>(UG/KG)<br>(49375)                                      | WW, REC<br>(UG/KG)<br>(49373)                                                    | WW, REC<br>(UG/KG)<br>(49372)                                                    | WW, REC<br>(UG/KG)<br>(49377)                                       | WW, REC<br>(UG/KG)<br>(49376)                                                | WW, REC<br>(UG/KG)<br>(49371)                                                  | WW, REC<br>(UG/KG)<br>(49370)                                               | WW, REC<br>(UG/KG)<br>(49369)                                                  | WW, REC<br>(UG/KG)<br>(49368)                                                   | WW, REC<br>(UG/KG)<br>(49363)                                      |
| OCT<br>20... | 320                                                                | 10.0                                                                             | 680                                                                              | <10.0                                                               | E21.0                                                                        | 11.0                                                                           | <5.00                                                                       | <5.00                                                                          | <5.00                                                                           | <5.00                                                              |
|              | LIPIDS,<br>BIOTA,<br>WH ORG<br>WW, REC<br>PERCENT<br>(49289)       | METHOXY<br>CHLOR,<br>O,P'-,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49362) | METHOXY<br>CHLOR,<br>P,P'-,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49361) | MIREX,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49360)         | CIS-<br>NONA-<br>CHLOR,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49359) | TRANS-<br>NONA-<br>CHLOR,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49358) | TOXA-<br>PHENE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49355)        | BENZENE<br>CHLORO-<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49367)        | PENTA<br>CHLORO<br>ANISOLE<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49356) |                                                                    |
| DATE         | WW, REC<br>PERCENT<br>(49289)                                      | WW, REC<br>(UG/KG)<br>(49362)                                                    | WW, REC<br>(UG/KG)<br>(49361)                                                    | WW, REC<br>(UG/KG)<br>(49360)                                       | WW, REC<br>(UG/KG)<br>(49359)                                                | WW, REC<br>(UG/KG)<br>(49358)                                                  | WW, REC<br>(UG/KG)<br>(49355)                                               | WW, REC<br>(UG/KG)<br>(49367)                                                  | WW, REC<br>(UG/KG)<br>(49356)                                                   |                                                                    |
| OCT<br>20... | 13.0                                                               | <10.0                                                                            | <10.0                                                                            | 13.0                                                                | <5.00                                                                        | 5.60                                                                           | <1100                                                                       | <5.00                                                                          | <5.00                                                                           |                                                                    |

## 07285400 BATUPAN BOGUE AT GRENADA, MS

LOCATION.--Lat 33°46'26", long 89°47'15", in NE 1/4 SE 1/4 sec.17, T.22 N., R.5 E., Choctaw Meridian, Grenada County, Hydrologic Unit 08030205, on downstream side of bridge on State Highway 8, 0.2 mi east of Grenada, 1.4 mi upstream from mouth, and 1.1 mi downstream from Perry Creek.

DRAINAGE AREA.--240 mi<sup>2</sup>.

PERIOD OF RECORD.--Water years 1972, 1985 to current year.

## PERIOD OF DAILY RECORD.--

DISCHARGE: June 1985 to current year.

SPECIFIC CONDUCTANCE: July 1985 to September 1987.

pH: June 1985 to September 1987.

WATER TEMPERATURE: June 1985 to September 1987.

DISSOLVED OXYGEN: July 1985 to September 1987.

SUSPENDED SEDIMENT CONCENTRATION: July 1985 to current year.

SUSPENDED SEDIMENT DISCHARGE: July 1985 to current year.

INSTRUMENTATION.--Water-stage recorder and crest-stage gage. Datum of gage is 162.13 ft above sea level. Automatic pumping sediment sampler since October 1985.

REMARKS.--Unpublished records of daily specific conductance, pH, water temperature, and dissolved oxygen during selected storm events are available in files of District office. Estimated daily discharges: Dec. 14-15, Dec. 21-Jan. 16, Jan. 29-Feb. 6, Mar. 25. Discharge records good except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--11 years, 398 ft<sup>3</sup>/s, 22.51 in/yr.

## EXTREMES FOR PERIOD OF DAILY RECORD.--

DISCHARGE: Maximum, 30,400 ft<sup>3</sup>/s, Apr. 29, 1991, gage height, 19.65 ft; minimum, 17 ft<sup>3</sup>/s, June 18, 20-21, 1988.

SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 6,300 mg/L, Dec. 1, 1991; minimum daily mean, 3 mg/L, Nov. 8, 1987, Aug. 1, 11, 1988.

SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 160,000 tons, Dec. 1, 1991; minimum daily, 0.22 ton, Nov. 8, 1987.

## EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum, 22,600 ft<sup>3</sup>/s, Apr. 23, gage height, 16.46 ft; minimum, 19 ft<sup>3</sup>/s, July 6.

SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 3,110 mg/L, Apr. 21; minimum daily mean, 9 mg/L, Nov. 20.

SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 107,000 tons, Apr. 21; minimum daily, 0.64 ton, Oct. 10.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE  | TIME  | DIS-CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SPE-CIFIC<br>CON-DUCT-<br>ANCE<br>(US/CM)<br>(00095)            | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010)                | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300)           | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615)          |                                                                           |
|-------|-------|-------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------|
|       |       |                                                                   |                                                                 |                                                                      |                                                                |                                                          |                                                                          |                                                                           |
| OCT   |       |                                                                   |                                                                 |                                                                      |                                                                |                                                          |                                                                          |                                                                           |
| 02... | 1500  | --                                                                | 155                                                             | 7.1                                                                  | 27.0                                                           | 6.5                                                      | 0.010                                                                    |                                                                           |
| 18... | 1400  | --                                                                | 136                                                             | 7.7                                                                  | 13.5                                                           | 8.0                                                      | 0.010                                                                    |                                                                           |
| 30... | 1230  | --                                                                | 112                                                             | 7.7                                                                  | 14.0                                                           | 8.9                                                      | 0.010                                                                    |                                                                           |
| NOV   |       |                                                                   |                                                                 |                                                                      |                                                                |                                                          |                                                                          |                                                                           |
| 28... | 1245  | --                                                                | 109                                                             | 6.7                                                                  | 11.5                                                           | 9.7                                                      | 0.010                                                                    |                                                                           |
| DEC   |       |                                                                   |                                                                 |                                                                      |                                                                |                                                          |                                                                          |                                                                           |
| 05... | 1330  | --                                                                | 128                                                             | 6.9                                                                  | 15.5                                                           | 9.8                                                      | <0.010                                                                   |                                                                           |
| 13... | 0730  | --                                                                | 88                                                              | 6.6                                                                  | 7.0                                                            | 12.8                                                     | 0.020                                                                    |                                                                           |
| FEB   |       |                                                                   |                                                                 |                                                                      |                                                                |                                                          |                                                                          |                                                                           |
| 28... | 1615  | 782                                                               | 67                                                              | 7.2                                                                  | 13.0                                                           | 9.2                                                      | --                                                                       |                                                                           |
| APR   |       |                                                                   |                                                                 |                                                                      |                                                                |                                                          |                                                                          |                                                                           |
| 23... | 1000  | 21200                                                             | --                                                              | --                                                                   | --                                                             | --                                                       | --                                                                       |                                                                           |
| MAY   |       |                                                                   |                                                                 |                                                                      |                                                                |                                                          |                                                                          |                                                                           |
| 20... | 1400  | 52                                                                | 140                                                             | 7.2                                                                  | 29.0                                                           | 8.5                                                      | --                                                                       |                                                                           |
| AUG   |       |                                                                   |                                                                 |                                                                      |                                                                |                                                          |                                                                          |                                                                           |
| 13... | 0730  | 130                                                               | 130                                                             | 6.5                                                                  | 24.5                                                           | 7.3                                                      | --                                                                       |                                                                           |
| DATE  |       | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630)   | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665)                | PHOS-<br>PHORUS<br>ORTHO<br>TOTAL<br>(MG/L<br>AS P)<br>(70507) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDED<br>(MG/L)<br>(80154) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDED<br>(T/DAY)<br>(80155) |
|       |       |                                                                   |                                                                 |                                                                      |                                                                |                                                          |                                                                          |                                                                           |
| OCT   |       |                                                                   |                                                                 |                                                                      |                                                                |                                                          |                                                                          |                                                                           |
| 02... | 0.040 | 0.020                                                             | 0.020                                                           | 0.020                                                                | 2.1                                                            | --                                                       | --                                                                       |                                                                           |
| 18... | 0.040 | 0.020                                                             | 0.060                                                           | 0.030                                                                | 3.6                                                            | --                                                       | --                                                                       |                                                                           |
| 30... | 0.070 | 0.080                                                             | 0.110                                                           | 0.070                                                                | 5.2                                                            | --                                                       | --                                                                       |                                                                           |
| NOV   |       |                                                                   |                                                                 |                                                                      |                                                                |                                                          |                                                                          |                                                                           |
| 28... | 0.050 | 0.040                                                             | 0.050                                                           | 0.050                                                                | 4.1                                                            | --                                                       | --                                                                       |                                                                           |
| DEC   |       |                                                                   |                                                                 |                                                                      |                                                                |                                                          |                                                                          |                                                                           |
| 05... | 0.030 | 0.030                                                             | 0.050                                                           | 0.030                                                                | 2.0                                                            | --                                                       | --                                                                       |                                                                           |
| 13... | 0.120 | 0.130                                                             | 0.060                                                           | 0.050                                                                | 4.4                                                            | --                                                       | --                                                                       |                                                                           |
| FEB   |       |                                                                   |                                                                 |                                                                      |                                                                |                                                          |                                                                          |                                                                           |
| 28... | --    | --                                                                | --                                                              | --                                                                   | --                                                             | --                                                       | --                                                                       |                                                                           |
| APR   |       |                                                                   |                                                                 |                                                                      |                                                                |                                                          |                                                                          |                                                                           |
| 23... | --    | --                                                                | --                                                              | --                                                                   | --                                                             | 1920                                                     | 110000                                                                   |                                                                           |
| MAY   |       |                                                                   |                                                                 |                                                                      |                                                                |                                                          |                                                                          |                                                                           |
| 20... | --    | --                                                                | --                                                              | --                                                                   | --                                                             | --                                                       | --                                                                       |                                                                           |
| AUG   |       |                                                                   |                                                                 |                                                                      |                                                                |                                                          |                                                                          |                                                                           |
| 13... | --    | --                                                                | --                                                              | --                                                                   | --                                                             | --                                                       | --                                                                       |                                                                           |

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE  | TIME | SED.    | SED.    | SED.    | SED.    | SED.    | SED.    | SED.    | SED.    | SED.    |         |
|-------|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|       |      | SUSP.   | SUSP.   | SUSP.   | SUSP.   | SUSP.   | SUSP.   | SUSP.   | SUSP.   | SUSP.   |         |
|       |      | FALL    | FALL    | FALL    | FALL    | FALL    | FALL    | FALL    | FALL    | FALL    |         |
|       |      | DIAM.   | DIAM.   | DIAM.   | DIAM.   | DIAM.   | DIAM.   | DIAM.   | DIAM.   | DIAM.   |         |
|       |      | % FINER | % FINER | % FINER | % FINER | % FINER | % FINER | % FINER | % FINER | % FINER |         |
|       |      | THAN    | THAN    | THAN    | THAN    | THAN    | THAN    | THAN    | THAN    | THAN    |         |
|       |      | .002 MM | .004 MM | .008 MM | .016 MM | .031 MM | .062 MM | .125 MM | .250 MM | .500 MM | 1.00 MM |
|       |      | (70337) | (70338) | (70339) | (70340) | (70341) | (70342) | (70343) | (70344) | (70345) | (70346) |
| APR   |      |         |         |         |         |         |         |         |         |         |         |
| 23... | 1000 | 17      | 23      | 30      | 40      | 58      | 71      | 75      | 90      | 99      | 100     |

07285400 BATUPAN BOGUE AT GRENADA, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| 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       | 33                         | 15                                   | 1.3                                 | 46                         | 33                                   | 4.1                                 | 50                         | 44                                   | 5.9                                 |
| 2       | 31                         | 14                                   | 1.2                                 | 95                         | 51                                   | 18                                  | 49                         | 42                                   | 5.6                                 |
| 3       | 89                         | 62                                   | 20                                  | 119                        | 54                                   | 18                                  | 49                         | 40                                   | 5.2                                 |
| 4       | 47                         | 46                                   | 5.9                                 | 69                         | 31                                   | 5.8                                 | 46                         | 39                                   | 4.8                                 |
| 5       | 36                         | 35                                   | 3.4                                 | 57                         | 27                                   | 4.2                                 | 44                         | 38                                   | 4.5                                 |
| 6       | 31                         | 26                                   | 2.2                                 | 58                         | 28                                   | 4.4                                 | 42                         | 23                                   | 2.7                                 |
| 7       | 28                         | 20                                   | 1.5                                 | 114                        | 44                                   | 15                                  | 42                         | 16                                   | 1.8                                 |
| 8       | 25                         | 16                                   | 1.1                                 | 130                        | 38                                   | 13                                  | 827                        | 596                                  | 5490                                |
| 9       | 24                         | 13                                   | .81                                 | 74                         | 36                                   | 7.2                                 | 2570                       | 1900                                 | 18200                               |
| 10      | 23                         | 10                                   | .64                                 | 61                         | 35                                   | 5.9                                 | 448                        | 376                                  | 500                                 |
| 11      | 24                         | 11                                   | .72                                 | 380                        | 602                                  | 1080                                | 214                        | 117                                  | 69                                  |
| 12      | 24                         | 25                                   | 1.6                                 | 193                        | 228                                  | 145                                 | 171                        | 76                                   | 35                                  |
| 13      | 25                         | 46                                   | 3.0                                 | 95                         | 108                                  | 28                                  | 149                        | 42                                   | 17                                  |
| 14      | 28                         | 43                                   | 3.2                                 | 78                         | 93                                   | 20                                  | 140                        | 65                                   | 26                                  |
| 15      | 30                         | 38                                   | 3.0                                 | 68                         | 61                                   | 11                                  | 120                        | 190                                  | 56                                  |
| 16      | 34                         | 34                                   | 3.1                                 | 62                         | 39                                   | 6.5                                 | 570                        | 261                                  | 407                                 |
| 17      | 31                         | 30                                   | 2.5                                 | 59                         | 22                                   | 3.5                                 | 2900                       | 808                                  | 9400                                |
| 18      | 29                         | 27                                   | 2.1                                 | 57                         | 13                                   | 1.9                                 | 4420                       | 1240                                 | 15200                               |
| 19      | 28                         | 23                                   | 1.7                                 | 54                         | 10                                   | 1.5                                 | 2010                       | 606                                  | 3270                                |
| 20      | 28                         | 19                                   | 1.4                                 | 53                         | 9                                    | 1.3                                 | 1140                       | 247                                  | 785                                 |
| 21      | 28                         | 16                                   | 1.2                                 | 51                         | 10                                   | 1.3                                 | 330                        | 182                                  | 161                                 |
| 22      | 28                         | 13                                   | .98                                 | 49                         | 11                                   | 1.4                                 | 270                        | 151                                  | 109                                 |
| 23      | 28                         | 11                                   | .85                                 | 405                        | 380                                  | 723                                 | 225                        | 125                                  | 76                                  |
| 24      | 28                         | 12                                   | .89                                 | 279                        | 258                                  | 243                                 | 210                        | 104                                  | 59                                  |
| 25      | 28                         | 12                                   | .92                                 | 106                        | 55                                   | 16                                  | 185                        | 86                                   | 43                                  |
| 26      | 29                         | 12                                   | .95                                 | 80                         | 38                                   | 8.3                                 | 170                        | 71                                   | 33                                  |
| 27      | 244                        | 576                                  | 751                                 | 71                         | 34                                   | 6.6                                 | 160                        | 59                                   | 25                                  |
| 28      | 279                        | 608                                  | 622                                 | 63                         | 49                                   | 8.3                                 | 150                        | 49                                   | 19                                  |
| 29      | 71                         | 129                                  | 26                                  | 53                         | 49                                   | 7.0                                 | 145                        | 42                                   | 16                                  |
| 30      | 52                         | 71                                   | 10                                  | 51                         | 47                                   | 6.5                                 | 140                        | 41                                   | 15                                  |
| 31      | 47                         | 58                                   | 7.3                                 | ---                        | ---                                  | ---                                 | 140                        | 41                                   | 15                                  |
| JANUARY |                            |                                      | FEBRUARY                            |                            |                                      | MARCH                               |                            |                                      |                                     |
| 1       | 3100                       | 40                                   | 335                                 | 155                        | 224                                  | 95                                  | 173                        | 68                                   | 32                                  |
| 2       | 1000                       | 688                                  | 1860                                | 205                        | 284                                  | 159                                 | 150                        | 57                                   | 23                                  |
| 3       | 400                        | 360                                  | 386                                 | 160                        | 88                                   | 40                                  | 127                        | 52                                   | 18                                  |
| 4       | 300                        | 182                                  | 147                                 | 145                        | 180                                  | 80                                  | 114                        | 47                                   | 14                                  |
| 5       | 250                        | 129                                  | 88                                  | 135                        | 285                                  | 112                                 | 114                        | 42                                   | 13                                  |
| 6       | 1200                       | 504                                  | 2210                                | 210                        | 117                                  | 67                                  | 232                        | 362                                  | 272                                 |
| 7       | 1100                       | 625                                  | 1930                                | 646                        | 144                                  | 257                                 | 209                        | 365                                  | 210                                 |
| 8       | 500                        | 333                                  | 462                                 | 757                        | 245                                  | 525                                 | 146                        | 132                                  | 53                                  |
| 9       | 350                        | 124                                  | 120                                 | 467                        | 81                                   | 106                                 | 118                        | 82                                   | 26                                  |
| 10      | 250                        | 68                                   | 45                                  | 341                        | 45                                   | 42                                  | 110                        | 54                                   | 16                                  |
| 11      | 1000                       | 180                                  | 540                                 | 278                        | 37                                   | 28                                  | 106                        | 35                                   | 10                                  |
| 12      | 840                        | 348                                  | 787                                 | 208                        | 31                                   | 18                                  | 104                        | 23                                   | 6.6                                 |
| 13      | 400                        | 214                                  | 233                                 | 164                        | 27                                   | 12                                  | 103                        | 26                                   | 7.1                                 |
| 14      | 300                        | 119                                  | 97                                  | 158                        | 26                                   | 11                                  | 99                         | 32                                   | 8.5                                 |
| 15      | 250                        | 66                                   | 47                                  | 147                        | 25                                   | 10                                  | 93                         | 34                                   | 8.5                                 |
| 16      | 240                        | 40                                   | 27                                  | 132                        | 25                                   | 8.9                                 | 99                         | 34                                   | 9.0                                 |
| 17      | 260                        | 35                                   | 25                                  | 122                        | 24                                   | 7.9                                 | 91                         | 24                                   | 5.8                                 |
| 18      | 447                        | 249                                  | 559                                 | 123                        | 19                                   | 6.4                                 | 558                        | 285                                  | 1220                                |
| 19      | 540                        | 265                                  | 472                                 | 146                        | 19                                   | 7.9                                 | 1600                       | 595                                  | 3100                                |
| 20      | 276                        | 79                                   | 60                                  | 227                        | 77                                   | 47                                  | 339                        | 116                                  | 115                                 |
| 21      | 241                        | 39                                   | 25                                  | 161                        | 73                                   | 32                                  | 227                        | 48                                   | 29                                  |
| 22      | 209                        | 24                                   | 14                                  | 140                        | 63                                   | 24                                  | 185                        | 27                                   | 14                                  |
| 23      | 211                        | 20                                   | 12                                  | 131                        | 56                                   | 20                                  | 160                        | 26                                   | 11                                  |
| 24      | 936                        | 1030                                 | 2700                                | 117                        | 44                                   | 14                                  | 148                        | 25                                   | 10                                  |
| 25      | 388                        | 332                                  | 387                                 | 106                        | 22                                   | 6.3                                 | 6000                       | 2730                                 | 52000                               |
| 26      | 658                        | 482                                  | 1450                                | 105                        | 12                                   | 3.5                                 | 1470                       | 561                                  | 2610                                |
| 27      | 802                        | 632                                  | 1380                                | 121                        | 20                                   | 9.1                                 | 539                        | 199                                  | 293                                 |
| 28      | 465                        | 128                                  | 167                                 | 1010                       | 853                                  | 2810                                | 377                        | 127                                  | 130                                 |
| 29      | 268                        | 108                                  | 78                                  | 267                        | 214                                  | 167                                 | 299                        | 82                                   | 66                                  |
| 30      | 210                        | 531                                  | 409                                 | ---                        | ---                                  | ---                                 | 244                        | 69                                   | 46                                  |
| 31      | 180                        | 474                                  | 233                                 | ---                        | ---                                  | ---                                 | 222                        | 58                                   | 35                                  |

## YAZOO RIVER BASIN

07285400 BATUPAN BOGUE AT GRENADA, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| 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) |
|-------|----------------------------|---------------------------------|-------------------------------------|----------------------------|---------------------------------|-------------------------------------|----------------------------|---------------------------------|-------------------------------------|
| APRIL |                            |                                 | MAY                                 |                            |                                 | JUNE                                |                            |                                 |                                     |
| 1     | 181                        | 46                              | 23                                  | 294                        | 74                              | 59                                  | 55                         | 44                              | 6.4                                 |
| 2     | 144                        | 52                              | 20                                  | 217                        | 55                              | 32                                  | 1180                       | 1280                            | 7270                                |
| 3     | 130                        | 54                              | 19                                  | 185                        | 52                              | 26                                  | 117                        | 168                             | 56                                  |
| 4     | 119                        | 40                              | 13                                  | 162                        | 51                              | 22                                  | 66                         | 111                             | 20                                  |
| 5     | 107                        | 31                              | 8.9                                 | 142                        | 51                              | 20                                  | 50                         | 87                              | 12                                  |
| 6     | 104                        | 30                              | 8.5                                 | 128                        | 50                              | 17                                  | 41                         | 70                              | 7.8                                 |
| 7     | 101                        | 31                              | 8.3                                 | 118                        | 50                              | 16                                  | 37                         | 59                              | 6.0                                 |
| 8     | 93                         | 32                              | 7.9                                 | 113                        | 50                              | 15                                  | 36                         | 51                              | 4.9                                 |
| 9     | 84                         | 35                              | 8.0                                 | 98                         | 47                              | 12                                  | 34                         | 44                              | 4.0                                 |
| 10    | 77                         | 39                              | 8.1                                 | 91                         | 44                              | 11                                  | 32                         | 39                              | 3.4                                 |
| 11    | 75                         | 39                              | 8.0                                 | 109                        | 112                             | 36                                  | 30                         | 35                              | 2.9                                 |
| 12    | 74                         | 40                              | 7.9                                 | 112                        | 236                             | 72                                  | 943                        | 1570                            | 6950                                |
| 13    | 116                        | 85                              | 30                                  | 88                         | 141                             | 34                                  | 1120                       | 1340                            | 8000                                |
| 14    | 243                        | 286                             | 984                                 | 79                         | 78                              | 17                                  | 882                        | 927                             | 3710                                |
| 15    | 2770                       | 2160                            | 18700                               | 73                         | 48                              | 9.6                                 | 151                        | 120                             | 53                                  |
| 16    | 553                        | 435                             | 704                                 | 68                         | 49                              | 9.0                                 | 86                         | 73                              | 17                                  |
| 17    | 281                        | 206                             | 158                                 | 63                         | 52                              | 8.8                                 | 60                         | 55                              | 8.9                                 |
| 18    | 201                        | 138                             | 76                                  | 59                         | 46                              | 7.4                                 | 48                         | 50                              | 6.5                                 |
| 19    | 167                        | 93                              | 42                                  | 56                         | 37                              | 5.6                                 | 41                         | 50                              | 5.6                                 |
| 20    | 632                        | 621                             | 2060                                | 53                         | 31                              | 4.5                                 | 38                         | 53                              | 5.4                                 |
| 21    | 11200                      | 3110                            | 107000                              | 51                         | 33                              | 4.4                                 | 35                         | 58                              | 5.5                                 |
| 22    | 6710                       | 1190                            | 23900                               | 48                         | 36                              | 4.7                                 | 32                         | 55                              | 4.8                                 |
| 23    | 15400                      | 1290                            | 57200                               | 48                         | 39                              | 5.0                                 | 46                         | 85                              | 12                                  |
| 24    | 4660                       | 564                             | 7360                                | 46                         | 42                              | 5.1                                 | 32                         | 78                              | 6.6                                 |
| 25    | 2780                       | 298                             | 2290                                | 43                         | 42                              | 4.9                                 | 28                         | 60                              | 4.6                                 |
| 26    | 1730                       | 165                             | 789                                 | 42                         | 42                              | 4.8                                 | 226                        | 777                             | 626                                 |
| 27    | 1020                       | 121                             | 336                                 | 41                         | 42                              | 4.6                                 | 124                        | 393                             | 157                                 |
| 28    | 638                        | 101                             | 175                                 | 53                         | 67                              | 13                                  | 45                         | 87                              | 11                                  |
| 29    | 493                        | 93                              | 123                                 | 84                         | 188                             | 47                                  | 34                         | 53                              | 4.8                                 |
| 30    | 424                        | 85                              | 98                                  | 55                         | 65                              | 9.6                                 | 29                         | 44                              | 3.5                                 |
| 31    | ---                        | ---                             | ---                                 | 45                         | 53                              | 6.5                                 | ---                        | ---                             | ---                                 |
| JULY  |                            |                                 | AUGUST                              |                            |                                 | SEPTEMBER                           |                            |                                 |                                     |
| 1     | 27                         | 30                              | 2.1                                 | 90                         | 235                             | 69                                  | 66                         | 107                             | 29                                  |
| 2     | 25                         | 57                              | 3.9                                 | 169                        | 244                             | 139                                 | 192                        | 536                             | 331                                 |
| 3     | 23                         | 102                             | 6.4                                 | 116                        | 178                             | 58                                  | 59                         | 122                             | 20                                  |
| 4     | 23                         | 148                             | 9.1                                 | 81                         | 81                              | 18                                  | 60                         | 55                              | 8.9                                 |
| 5     | 20                         | 98                              | 5.3                                 | 73                         | 55                              | 11                                  | 47                         | 66                              | 8.3                                 |
| 6     | 20                         | 60                              | 3.2                                 | 69                         | 62                              | 12                                  | 43                         | 69                              | 8.1                                 |
| 7     | 26                         | 63                              | 4.4                                 | 66                         | 72                              | 13                                  | 42                         | 69                              | 7.7                                 |
| 8     | 36                         | 77                              | 7.5                                 | 92                         | 70                              | 18                                  | 41                         | 68                              | 7.6                                 |
| 9     | 32                         | 76                              | 6.5                                 | 338                        | 283                             | 326                                 | 42                         | 69                              | 7.8                                 |
| 10    | 30                         | 69                              | 5.6                                 | 175                        | 77                              | 39                                  | 39                         | 73                              | 7.8                                 |
| 11    | 27                         | 72                              | 5.3                                 | 135                        | 48                              | 17                                  | 38                         | 81                              | 8.2                                 |
| 12    | 29                         | 80                              | 6.2                                 | 120                        | 55                              | 18                                  | 35                         | 117                             | 11                                  |
| 13    | 26                         | 89                              | 6.3                                 | 108                        | 56                              | 16                                  | 32                         | 163                             | 14                                  |
| 14    | 31                         | 99                              | 8.2                                 | 100                        | 60                              | 16                                  | 31                         | 104                             | 8.7                                 |
| 15    | 61                         | 103                             | 17                                  | 97                         | 40                              | 11                                  | 29                         | 100                             | 7.7                                 |
| 16    | 44                         | 85                              | 10                                  | 89                         | 31                              | 7.4                                 | 708                        | 1120                            | 3280                                |
| 17    | 49                         | 73                              | 9.7                                 | 85                         | 40                              | 9.3                                 | 105                        | 110                             | 36                                  |
| 18    | 40                         | 118                             | 13                                  | 83                         | 55                              | 12                                  | 58                         | 66                              | 10                                  |
| 19    | 35                         | 120                             | 11                                  | 83                         | 74                              | 17                                  | 48                         | 56                              | 7.2                                 |
| 20    | 36                         | 92                              | 8.9                                 | 76                         | 99                              | 20                                  | 44                         | 70                              | 8.2                                 |
| 21    | 32                         | 70                              | 6.1                                 | 72                         | 133                             | 26                                  | 48                         | 71                              | 9.1                                 |
| 22    | 30                         | 55                              | 4.5                                 | 67                         | 178                             | 32                                  | 43                         | 71                              | 8.3                                 |
| 23    | 35                         | 62                              | 5.8                                 | 63                         | 220                             | 37                                  | 40                         | 74                              | 8.0                                 |
| 24    | 32                         | 83                              | 7.3                                 | 61                         | 127                             | 21                                  | 38                         | 92                              | 9.4                                 |
| 25    | 111                        | 338                             | 148                                 | 59                         | 64                              | 10                                  | 36                         | 116                             | 11                                  |
| 26    | 33                         | 83                              | 7.5                                 | 57                         | 57                              | 8.7                                 | 33                         | 129                             | 12                                  |
| 27    | 226                        | 1130                            | 1670                                | 58                         | 55                              | 8.6                                 | 455                        | 796                             | 1260                                |
| 28    | 100                        | 530                             | 208                                 | 66                         | 67                              | 12                                  | 92                         | 231                             | 67                                  |
| 29    | 32                         | 160                             | 14                                  | 57                         | 60                              | 9.2                                 | 36                         | 80                              | 8.0                                 |
| 30    | 25                         | 100                             | 6.8                                 | 86                         | 120                             | 42                                  | 40                         | 54                              | 5.7                                 |
| 31    | 176                        | 475                             | 517                                 | 69                         | 121                             | 25                                  | ---                        | ---                             | ---                                 |

## 07285500 YALOBUSHA RIVER AT GRENADA, MS

LOCATION.--Lat 33°47'18", long 89°48'36", in 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 fair. Regulated by Grenada Lake Spillway. U.S. Geological Survey 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 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC    | JAN    | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG    | SEP   |
|-------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|--------|-------|
| 1     | 2970  | 1420  | 2020   | 5430   | 4180  | 1100  | 514   | 851   | 557   | 1010  | 2290   | 3370  |
| 2     | 2960  | 1430  | 1980   | 6890   | 4610  | 2530  | 466   | 770   | 1350  | 1020  | 3430   | 3790  |
| 3     | 3070  | 1500  | 1940   | 5800   | 4200  | 2500  | 440   | 730   | 701   | 1020  | 3330   | 3480  |
| 4     | 2990  | 1390  | 1680   | 5420   | 3870  | 2450  | 421   | 707   | 588   | 1010  | 3270   | 3350  |
| 5     | 2950  | 1340  | 1400   | 5300   | 3780  | 2270  | 395   | 686   | 555   | 1020  | 3260   | 3290  |
| 6     | 2930  | 1330  | 1380   | 6720   | 3760  | 2150  | 391   | 672   | 541   | 1030  | 3260   | 3240  |
| 7     | 2910  | 1390  | 1180   | 6550   | 4050  | 2220  | 390   | 659   | 544   | 1030  | 3230   | 3230  |
| 8     | 2900  | 1420  | 1060   | 5630   | 4210  | 2290  | 389   | 660   | 599   | 1030  | 3280   | 3220  |
| 9     | 2880  | 1320  | 3560   | 5450   | 4020  | 2730  | 382   | 646   | 615   | 1020  | 3750   | 3210  |
| 10    | 2630  | 1280  | 1330   | 5350   | 3900  | 2700  | 374   | 636   | 556   | 1020  | 3630   | 3190  |
| 11    | 1870  | 1430  | 1310   | 5510   | 3840  | 2580  | 374   | 657   | 548   | 1020  | 3610   | 3170  |
| 12    | 1850  | 1500  | 2290   | 5930   | 3660  | 1810  | 378   | 676   | 1670  | 1020  | 3600   | 3150  |
| 13    | 1910  | 1450  | 2750   | 5510   | 3060  | 985   | 429   | 641   | 1570  | 1020  | 3570   | 3140  |
| 14    | 1950  | 2760  | 2710   | 5260   | 3010  | 615   | 479   | 627   | 2020  | 1030  | 3550   | 3120  |
| 15    | 1910  | 2700  | 2670   | 5120   | 2610  | 459   | 2710  | 761   | 1010  | 1080  | 3550   | 3100  |
| 16    | 1880  | 2630  | 2990   | 4290   | 1900  | 479   | 861   | 616   | 860   | 1090  | 3530   | 3920  |
| 17    | 1830  | 2550  | 3650   | 3270   | 1220  | 443   | 590   | 598   | 797   | 1080  | 3520   | 3370  |
| 18    | 1790  | 2490  | 4520   | 3170   | 912   | 822   | 511   | 588   | 768   | 1060  | 3510   | 3250  |
| 19    | 1750  | 2420  | 5010   | 3150   | 948   | 1850  | 485   | 590   | 775   | 1080  | 3500   | 3210  |
| 20    | 1720  | 2370  | 2830   | 2790   | 1080  | 796   | 767   | 582   | 738   | 1130  | 3480   | 3200  |
| 21    | 1670  | 2300  | 3940   | 2720   | 1010  | 613   | 6540  | 577   | 721   | 1150  | 3460   | 3210  |
| 22    | 1640  | 2240  | 4880   | 2670   | 785   | 552   | 6920  | 572   | 709   | 1140  | 3440   | 3190  |
| 23    | 1600  | 1830  | 5160   | 2630   | 516   | 513   | 10600 | 568   | 716   | 1140  | 3420   | 3170  |
| 24    | 1570  | 1720  | 5040   | 2600   | 486   | 490   | 4270  | 565   | 704   | 1150  | 3410   | 3160  |
| 25    | 1530  | 2320  | 4930   | 2270   | 452   | 5000  | 1650  | 558   | 683   | 1280  | 3390   | 3140  |
| 26    | 1490  | 2240  | 4810   | 3430   | 440   | 1930  | 1300  | 555   | 938   | 1200  | 3380   | 3130  |
| 27    | 1640  | 2190  | 4710   | 4310   | 474   | 942   | 1220  | 551   | 882   | 1200  | 3370   | 3820  |
| 28    | 1900  | 2160  | 4880   | 3280   | 1710  | 764   | 1080  | 557   | 824   | 1470  | 3390   | 1050  |
| 29    | 1560  | 2100  | 5370   | 3530   | 800   | 677   | 975   | 613   | 1030  | 1200  | 3360   | 1470  |
| 30    | 1480  | 2050  | 5400   | 4250   | ---   | 608   | 956   | 580   | 1010  | 1190  | 3420   | 2790  |
| 31    | 1450  | ---   | 5430   | 4640   | ---   | 576   | ---   | 557   | ---   | 1300  | 3400   | ---   |
| TOTAL | 65180 | 57270 | 102810 | 138870 | 69493 | 46444 | 47257 | 19606 | 25579 | 34240 | 105590 | 94130 |
| MEAN  | 2103  | 1909  | 3316   | 4480   | 2396  | 1498  | 1575  | 632   | 853   | 1105  | 3406   | 3138  |
| MAX   | 3070  | 2760  | 5430   | 6890   | 4610  | 5000  | 10600 | 851   | 2020  | 1470  | 3750   | 3920  |
| MIN   | 1450  | 1280  | 1060   | 2270   | 440   | 443   | 374   | 551   | 541   | 1010  | 2290   | 1050  |
| CFSM  | 1.34  | 1.22  | 2.11   | 2.85   | 1.53  | .95   | 1.00  | .40   | .54   | .70   | 2.17   | 2.00  |
| IN.   | 1.54  | 1.36  | 2.44   | 3.29   | 1.65  | 1.10  | 1.12  | .46   | .61   | .81   | 2.50   | 2.23  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1996, BY WATER YEAR (WY)

|      | MEAN | 2613 | 2759 | 3869 | 4208 | 2928 | 3124 | 2349 | 2315 | 1950 | 1727 | 2556 | 2960 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MAX  | 4951 | 4963 | 6461 | 5935 | 4971 | 5756 | 4228 | 9529 | 5646 | 4904 | 4808 | 5652 |      |
| (WY) | 1992 | 1990 | 1990 | 1991 | 1990 | 1991 | 1990 | 1991 | 1991 | 1991 | 1991 | 1991 | 1991 |
| MIN  | 1369 | 1909 | 1757 | 1499 | 1038 | 1033 | 365  | 189  | 320  | 322  | 382  | 848  |      |
| (WY) | 1991 | 1996 | 1994 | 1994 | 1992 | 1993 | 1992 | 1992 | 1993 | 1993 | 1992 | 1992 | 1992 |

## SUMMARY STATISTICS

## FOR 1995 CALENDAR YEAR

## FOR 1996 WATER YEAR

## WATER YEARS 1989 - 1996

|                          |         |        |       |
|--------------------------|---------|--------|-------|
| ANNUAL TOTAL             | 1034362 | 806469 |       |
| ANNUAL MEAN              | 2834    | 2203   |       |
| HIGHEST ANNUAL MEAN      |         |        | 2725  |
| LOWEST ANNUAL MEAN       |         |        | 4441  |
| HIGHEST DAILY MEAN       | 10500   | Mar 7  | 1685  |
| LOWEST DAILY MEAN        | 41      | Aug 26 | 21900 |
| ANNUAL SEVEN-DAY MINIMUM | 49      | Aug 20 | 30    |
| INSTANTANEOUS PEAK FLOW  |         |        | 33    |
| INSTANTANEOUS PEAK STAGE |         |        | 23000 |
| ANNUAL RUNOFF (CFSM)     | 1.81    |        | 27.54 |
| ANNUAL RUNOFF (INCHES)   | 24.51   |        | 1.74  |
| 10 PERCENT EXCEEDS       | 5130    |        | 23.58 |
| 50 PERCENT EXCEEDS       | 2790    |        | 5720  |
| 90 PERCENT EXCEEDS       | 903     |        | 2420  |
|                          |         |        | 287   |



LOCATION.--Lat 33°20'24", long 90°09'04", in NW 1/4 SE 1/4 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.

PERIOD OF RECORD.--Water years 1992 to current year.

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: July 9-10, 13, Aug. 6-8, Sept. 11. Discharge records good except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--5 years, 113 ft<sup>3</sup>/s, 19.80 in/yr.

EXTREMES FOR PERIOD OF DAILY RECORD.--

DISCHARGE: Maximum observed, 5,670 ft<sup>3</sup>/s, Feb. 11, 1994, maximum gage height, 19.30 ft, Apr. 23, 1995; minimum daily, 28 ft<sup>3</sup>/s, Aug. 17, 1992.

SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 2,170 mg/L, Apr. 15, 1996; 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, 4,010 ft<sup>3</sup>/s, Apr. 23, gage height, 17.45 ft; minimum daily, 31 ft<sup>3</sup>/s, Nov. 22.

SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 2,170 mg/L, Apr. 15; minimum daily mean, 27 mg/L, Oct. 22.

SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 9,860 tons, Apr. 23; minimum daily, 2.7 tons, Oct. 17, 23.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

[illegible]

## 07287150 ABIACA CREEK NEAR SEVEN PINES, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| 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       | 36                         | 37                                   | 3.6                                 | 40                         | 73                                   | 8.0                                 | 34                         | 168                                  | 16                                  |
| 2       | 34                         | 69                                   | 6.3                                 | 46                         | 138                                  | 17                                  | 33                         | 172                                  | 15                                  |
| 3       | 40                         | 108                                  | 12                                  | 44                         | 190                                  | 23                                  | 37                         | 174                                  | 17                                  |
| 4       | 37                         | 89                                   | 9.0                                 | 42                         | 104                                  | 12                                  | 42                         | 139                                  | 16                                  |
| 5       | 36                         | 67                                   | 6.6                                 | 40                         | 54                                   | 5.9                                 | 43                         | 60                                   | 6.9                                 |
| 6       | 34                         | 59                                   | 5.4                                 | 37                         | 38                                   | 3.8                                 | 39                         | 85                                   | 8.8                                 |
| 7       | 34                         | 77                                   | 7.0                                 | 46                         | 63                                   | 7.9                                 | 37                         | 224                                  | 22                                  |
| 8       | 34                         | 102                                  | 9.4                                 | 43                         | 84                                   | 9.8                                 | 171                        | 413                                  | 452                                 |
| 9       | 33                         | 124                                  | 11                                  | 40                         | 61                                   | 6.6                                 | 461                        | 724                                  | 1030                                |
| 10      | 34                         | 123                                  | 11                                  | 40                         | 44                                   | 4.8                                 | 120                        | 163                                  | 58                                  |
| 11      | 35                         | 113                                  | 11                                  | 106                        | 813                                  | 277                                 | 73                         | 130                                  | 26                                  |
| 12      | 34                         | 85                                   | 7.9                                 | 62                         | 221                                  | 40                                  | 61                         | 95                                   | 16                                  |
| 13      | 36                         | 67                                   | 6.5                                 | 52                         | 73                                   | 10                                  | 54                         | 180                                  | 26                                  |
| 14      | 38                         | 65                                   | 6.7                                 | 48                         | 102                                  | 13                                  | 48                         | 197                                  | 26                                  |
| 15      | 43                         | 63                                   | 7.3                                 | 40                         | 122                                  | 13                                  | 45                         | 203                                  | 24                                  |
| 16      | 39                         | 50                                   | 5.4                                 | 38                         | 91                                   | 9.5                                 | 83                         | 280                                  | 66                                  |
| 17      | 35                         | 29                                   | 2.7                                 | 37                         | 67                                   | 6.7                                 | 447                        | 714                                  | 1110                                |
| 18      | 35                         | 47                                   | 4.5                                 | 39                         | 56                                   | 5.9                                 | 958                        | 1060                                 | 3600                                |
| 19      | 38                         | 37                                   | 3.8                                 | 36                         | 47                                   | 4.6                                 | 800                        | 772                                  | 1830                                |
| 20      | 37                         | 30                                   | 3.0                                 | 35                         | 44                                   | 4.1                                 | 304                        | 342                                  | 291                                 |
| 21      | 36                         | 28                                   | 2.8                                 | 33                         | 49                                   | 4.3                                 | 166                        | 206                                  | 94                                  |
| 22      | 38                         | 27                                   | 2.8                                 | 31                         | 61                                   | 5.2                                 | 117                        | 126                                  | 40                                  |
| 23      | 36                         | 28                                   | 2.7                                 | 45                         | 97                                   | 12                                  | 96                         | 96                                   | 25                                  |
| 24      | 35                         | 34                                   | 3.3                                 | 42                         | 151                                  | 17                                  | 82                         | 80                                   | 18                                  |
| 25      | 36                         | 41                                   | 4.0                                 | 36                         | 219                                  | 22                                  | 75                         | 69                                   | 14                                  |
| 26      | 38                         | 42                                   | 4.3                                 | 39                         | 315                                  | 33                                  | 69                         | 108                                  | 20                                  |
| 27      | 43                         | 41                                   | 4.8                                 | 38                         | 425                                  | 43                                  | 62                         | 178                                  | 30                                  |
| 28      | 43                         | 39                                   | 4.5                                 | 34                         | 416                                  | 39                                  | 58                         | 176                                  | 27                                  |
| 29      | 42                         | 36                                   | 4.1                                 | 34                         | 106                                  | 9.6                                 | 57                         | 159                                  | 24                                  |
| 30      | 37                         | 49                                   | 4.8                                 | 34                         | 131                                  | 12                                  | 57                         | 125                                  | 19                                  |
| 31      | 40                         | 114                                  | 12                                  | ---                        | ---                                  | ---                                 | 55                         | 96                                   | 14                                  |
| JANUARY |                            |                                      | FEBRUARY                            |                            |                                      | MARCH                               |                            |                                      |                                     |
| 1       | 57                         | 74                                   | 11                                  | 110                        | 94                                   | 28                                  | 51                         | 121                                  | 17                                  |
| 2       | 298                        | 496                                  | 487                                 | 376                        | 615                                  | 753                                 | 52                         | 85                                   | 12                                  |
| 3       | 151                        | 195                                  | 85                                  | 218                        | 183                                  | 111                                 | 50                         | 59                                   | 8.0                                 |
| 4       | 97                         | 137                                  | 35                                  | 140                        | 117                                  | 44                                  | 47                         | 44                                   | 5.5                                 |
| 5       | 79                         | 215                                  | 47                                  | 115                        | 80                                   | 25                                  | 44                         | 41                                   | 4.9                                 |
| 6       | 530                        | 1050                                 | 2420                                | 98                         | 75                                   | 20                                  | 111                        | 505                                  | 233                                 |
| 7       | 428                        | 680                                  | 875                                 | 94                         | 84                                   | 21                                  | 75                         | 201                                  | 41                                  |
| 8       | 193                        | 200                                  | 109                                 | 99                         | 108                                  | 29                                  | 66                         | 319                                  | 56                                  |
| 9       | 127                        | 135                                  | 46                                  | 95                         | 119                                  | 31                                  | 59                         | 318                                  | 51                                  |
| 10      | 102                        | 192                                  | 53                                  | 90                         | 93                                   | 22                                  | 53                         | 186                                  | 27                                  |
| 11      | 94                         | 174                                  | 44                                  | 84                         | 71                                   | 16                                  | 50                         | 126                                  | 17                                  |
| 12      | 117                        | 195                                  | 62                                  | 73                         | 57                                   | 11                                  | 48                         | 132                                  | 17                                  |
| 13      | 100                        | 147                                  | 40                                  | 69                         | 80                                   | 15                                  | 49                         | 137                                  | 18                                  |
| 14      | 86                         | 107                                  | 25                                  | 67                         | 112                                  | 20                                  | 48                         | 135                                  | 17                                  |
| 15      | 74                         | 89                                   | 18                                  | 63                         | 102                                  | 17                                  | 48                         | 131                                  | 17                                  |
| 16      | 66                         | 104                                  | 18                                  | 63                         | 91                                   | 16                                  | 46                         | 124                                  | 15                                  |
| 17      | 64                         | 120                                  | 21                                  | 61                         | 84                                   | 14                                  | 47                         | 117                                  | 15                                  |
| 18      | 74                         | 132                                  | 26                                  | 59                         | 77                                   | 12                                  | 64                         | 314                                  | 85                                  |
| 19      | 79                         | 134                                  | 29                                  | 61                         | 72                                   | 12                                  | 199                        | 426                                  | 245                                 |
| 20      | 72                         | 108                                  | 21                                  | 64                         | 75                                   | 13                                  | 107                        | 133                                  | 38                                  |
| 21      | 69                         | 86                                   | 16                                  | 62                         | 81                                   | 14                                  | 80                         | 141                                  | 30                                  |
| 22      | 64                         | 71                                   | 12                                  | 60                         | 85                                   | 14                                  | 69                         | 129                                  | 24                                  |
| 23      | 59                         | 67                                   | 11                                  | 59                         | 84                                   | 13                                  | 63                         | 118                                  | 20                                  |
| 24      | 199                        | 443                                  | 289                                 | 57                         | 70                                   | 11                                  | 59                         | 106                                  | 17                                  |
| 25      | 123                        | 104                                  | 36                                  | 57                         | 58                                   | 8.9                                 | 353                        | 939                                  | 1010                                |
| 26      | 545                        | 751                                  | 2740                                | 56                         | 60                                   | 8.9                                 | 184                        | 261                                  | 133                                 |
| 27      | 761                        | 862                                  | 2120                                | 53                         | 108                                  | 15                                  | 115                        | 224                                  | 70                                  |
| 28      | 348                        | 322                                  | 315                                 | 55                         | 136                                  | 20                                  | 91                         | 242                                  | 59                                  |
| 29      | 197                        | 160                                  | 86                                  | 52                         | 135                                  | 19                                  | 81                         | 272                                  | 60                                  |
| 30      | 145                        | 132                                  | 52                                  | ---                        | ---                                  | ---                                 | 78                         | 267                                  | 56                                  |
| 31      | 129                        | 113                                  | 39                                  | ---                        | ---                                  | ---                                 | 93                         | 277                                  | 70                                  |

## 07287150 ABIACA CREEK NEAR SEVEN PINES, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| 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     | 80                         | 286                                  | 62                                  | 109                        | 174                                  | 51                                  | 72                         | 292                                  | 120                                 |
| 2     | 71                         | 261                                  | 50                                  | 96                         | 187                                  | 49                                  | 197                        | 1350                                 | 1060                                |
| 3     | 68                         | 229                                  | 42                                  | 85                         | 160                                  | 37                                  | 63                         | 239                                  | 41                                  |
| 4     | 64                         | 206                                  | 36                                  | 84                         | 133                                  | 30                                  | 52                         | 279                                  | 39                                  |
| 5     | 61                         | 172                                  | 29                                  | 76                         | 110                                  | 23                                  | 49                         | 306                                  | 41                                  |
| 6     | 61                         | 118                                  | 20                                  | 66                         | 102                                  | 18                                  | 48                         | 276                                  | 36                                  |
| 7     | 60                         | 80                                   | 13                                  | 65                         | 127                                  | 22                                  | 46                         | 233                                  | 29                                  |
| 8     | 55                         | 69                                   | 10                                  | 62                         | 162                                  | 27                                  | 53                         | 172                                  | 25                                  |
| 9     | 53                         | 109                                  | 15                                  | 60                         | 211                                  | 34                                  | 49                         | 125                                  | 16                                  |
| 10    | 52                         | 147                                  | 21                                  | 59                         | 233                                  | 37                                  | 47                         | 105                                  | 13                                  |
| 11    | 53                         | 144                                  | 21                                  | 66                         | 168                                  | 30                                  | 46                         | 129                                  | 16                                  |
| 12    | 51                         | 176                                  | 24                                  | 62                         | 118                                  | 20                                  | 47                         | 170                                  | 21                                  |
| 13    | 81                         | 239                                  | 52                                  | 54                         | 104                                  | 15                                  | 48                         | 226                                  | 29                                  |
| 14    | 237                        | 971                                  | 1660                                | 52                         | 160                                  | 22                                  | 48                         | 166                                  | 21                                  |
| 15    | 1260                       | 2170                                 | 8590                                | 53                         | 214                                  | 31                                  | 48                         | 114                                  | 15                                  |
| 16    | 529                        | 420                                  | 639                                 | 50                         | 197                                  | 27                                  | 47                         | 79                                   | 10                                  |
| 17    | 237                        | 219                                  | 142                                 | 49                         | 176                                  | 23                                  | 46                         | 66                                   | 8.1                                 |
| 18    | 154                        | 167                                  | 69                                  | 50                         | 151                                  | 20                                  | 44                         | 93                                   | 11                                  |
| 19    | 123                        | 137                                  | 47                                  | 51                         | 130                                  | 18                                  | 45                         | 118                                  | 14                                  |
| 20    | 260                        | 213                                  | 488                                 | 46                         | 85                                   | 11                                  | 44                         | 107                                  | 13                                  |
| 21    | 1630                       | 1780                                 | 9160                                | 47                         | 114                                  | 14                                  | 43                         | 95                                   | 11                                  |
| 22    | 1030                       | 1020                                 | 3620                                | 48                         | 199                                  | 26                                  | 43                         | 84                                   | 9.7                                 |
| 23    | 2550                       | 1350                                 | 9860                                | 49                         | 186                                  | 24                                  | 43                         | 74                                   | 8.5                                 |
| 24    | 1220                       | 799                                  | 2650                                | 49                         | 174                                  | 23                                  | 42                         | 79                                   | 8.9                                 |
| 25    | 824                        | 479                                  | 1090                                | 48                         | 175                                  | 23                                  | 41                         | 139                                  | 15                                  |
| 26    | 462                        | 289                                  | 370                                 | 48                         | 176                                  | 23                                  | 42                         | 208                                  | 23                                  |
| 27    | 278                        | 219                                  | 165                                 | 48                         | 184                                  | 24                                  | 41                         | 199                                  | 22                                  |
| 28    | 210                        | 202                                  | 114                                 | 58                         | 210                                  | 33                                  | 41                         | 171                                  | 19                                  |
| 29    | 180                        | 206                                  | 99.9                                | 57                         | 221                                  | 34                                  | 41                         | 115                                  | 13                                  |
| 30    | 136                        | 224                                  | 84                                  | 55                         | 183                                  | 27                                  | 42                         | 77                                   | 8.8                                 |
| 31    | ---                        | ---                                  | ---                                 | 49                         | 157                                  | 21                                  | ---                        | ---                                  | ---                                 |
| JULY  |                            |                                      | AUGUST                              |                            |                                      | SEPTEMBER                           |                            |                                      |                                     |
| 1     | 42                         | 57                                   | 6.3                                 | 42                         | 137                                  | 16                                  | 39                         | 104                                  | 11                                  |
| 2     | 40                         | 57                                   | 6.3                                 | 80                         | 193                                  | 55                                  | 39                         | 74                                   | 7.8                                 |
| 3     | 41                         | 71                                   | 7.8                                 | 63                         | 123                                  | 21                                  | 47                         | 172                                  | 22                                  |
| 4     | 41                         | 59                                   | 6.5                                 | 44                         | 115                                  | 14                                  | 51                         | 258                                  | 36                                  |
| 5     | 39                         | 50                                   | 5.2                                 | 42                         | 119                                  | 13                                  | 46                         | 169                                  | 21                                  |
| 6     | 40                         | 62                                   | 6.7                                 | 42                         | 125                                  | 14                                  | 45                         | 591                                  | 73                                  |
| 7     | 41                         | 78                                   | 8.6                                 | 42                         | 135                                  | 15                                  | 43                         | 293                                  | 34                                  |
| 8     | 41                         | 94                                   | 10                                  | 41                         | 162                                  | 18                                  | 42                         | 124                                  | 14                                  |
| 9     | 40                         | 100                                  | 11                                  | 41                         | 179                                  | 20                                  | 41                         | 126                                  | 14                                  |
| 10    | 38                         | 108                                  | 11                                  | 40                         | 161                                  | 18                                  | 39                         | 510                                  | 54                                  |
| 11    | 37                         | 127                                  | 13                                  | 42                         | 143                                  | 16                                  | 38                         | 467                                  | 48                                  |
| 12    | 38                         | 145                                  | 15                                  | 40                         | 153                                  | 17                                  | 37                         | 324                                  | 33                                  |
| 13    | 40                         | 149                                  | 16                                  | 40                         | 263                                  | 28                                  | 36                         | 240                                  | 23                                  |
| 14    | 42                         | 230                                  | 26                                  | 39                         | 372                                  | 39                                  | 36                         | 222                                  | 21                                  |
| 15    | 47                         | 214                                  | 28                                  | 39                         | 263                                  | 28                                  | 37                         | 208                                  | 21                                  |
| 16    | 41                         | 103                                  | 11                                  | 38                         | 188                                  | 19                                  | 211                        | 1070                                 | 753                                 |
| 17    | 41                         | 104                                  | 12                                  | 38                         | 169                                  | 17                                  | 78                         | 626                                  | 136                                 |
| 18    | 40                         | 85                                   | 9.3                                 | 38                         | 169                                  | 18                                  | 49                         | 401                                  | 54                                  |
| 19    | 38                         | 72                                   | 7.5                                 | 43                         | 216                                  | 25                                  | 41                         | 305                                  | 34                                  |
| 20    | 40                         | 70                                   | 7.5                                 | 39                         | 279                                  | 29                                  | 38                         | 242                                  | 25                                  |
| 21    | 39                         | 68                                   | 7.3                                 | 39                         | 310                                  | 32                                  | 41                         | 212                                  | 23                                  |
| 22    | 38                         | 119                                  | 12                                  | 37                         | 234                                  | 24                                  | 37                         | 186                                  | 19                                  |
| 23    | 46                         | 256                                  | 32                                  | 38                         | 175                                  | 18                                  | 35                         | 165                                  | 16                                  |
| 24    | 44                         | 122                                  | 14                                  | 37                         | 139                                  | 14                                  | 33                         | 153                                  | 14                                  |
| 25    | 57                         | 1070                                 | 190                                 | 36                         | 111                                  | 11                                  | 33                         | 202                                  | 18                                  |
| 26    | 44                         | 355                                  | 42                                  | 38                         | 122                                  | 13                                  | 33                         | 380                                  | 34                                  |
| 27    | 42                         | 228                                  | 26                                  | 39                         | 294                                  | 31                                  | 88                         | 788                                  | 222                                 |
| 28    | 42                         | 130                                  | 15                                  | 38                         | 553                                  | 56                                  | 63                         | 281                                  | 49                                  |
| 29    | 41                         | 90                                   | 9.8                                 | 39                         | 555                                  | 59                                  | 46                         | 133                                  | 17                                  |
| 30    | 41                         | 103                                  | 11                                  | 40                         | 462                                  | 50                                  | 40                         | 74                                   | 7.9                                 |
| 31    | 45                         | 123                                  | 15                                  | 39                         | 224                                  | 24                                  | ---                        | ---                                  | ---                                 |

## 07287160 ABIACA CREEK AT CRUGER, MS

LOCATION.--Lat 33°20'29", long 90°14'13", in NE 1/4 NW 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 to current year.

## 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. 9-29, Jan. 3-4, 6-10, 19, May 13-14, Aug. 17-20. Discharge records good except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--5 years, 99 ft<sup>3</sup>/s, 14.05 in/yr.

## EXTREMES FOR PERIOD OF DAILY RECORD.--

DISCHARGE: Maximum, 3,440 ft<sup>3</sup>/s, Apr. 23, 1995, gage height, 11.77 ft; minimum daily, 23 ft<sup>3</sup>/s, Aug. 22, 1996.

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, 3,010 ft<sup>3</sup>/s, Apr. 23, gage height, 11.70 ft; minimum daily, 23 ft<sup>3</sup>/s, Aug. 22.

SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 2,450 mg/L, Apr. 23; minimum daily mean, 17 mg/L Oct. 1.

SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 16,700 tons, Apr. 23; minimum daily, 1.3 tons, Oct. 1.

## WATER QUALITY 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) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | PHOS-<br>PHORUS<br>ORTHO<br>TOTAL<br>(MG/L<br>AS P)<br>(70507) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) |
|-------|------|-----------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|
| OCT   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                 |                                                                 |                                                                 |                                                       |                                                                |                                                          |
| 03... | 1015 | 40                                                                    | 105                                                          | 7.3                                                                  | 23.0                                            | 5.8                                            | 0.020                                                           | 0.120                                                           | 0.010                                                           | 0.130                                                 | 0.080                                                          | 2.5                                                      |
| 17... | 1130 | 31                                                                    | 105                                                          | 7.9                                                                  | 18.0                                            | 6.8                                            | 0.010                                                           | 0.030                                                           | 0.010                                                           | 0.030                                                 | 0.030                                                          | 1.9                                                      |
| 31... | 1330 | 34                                                                    | 109                                                          | 7.9                                                                  | 15.5                                            | 9.8                                            | <0.010                                                          | 0.040                                                           | <0.010                                                          | 0.050                                                 | 0.030                                                          | 2.8                                                      |
| NOV   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                 |                                                                 |                                                                 |                                                       |                                                                |                                                          |
| 29... | 0830 | 27                                                                    | 111                                                          | 7.1                                                                  | 5.5                                             | 11.9                                           | 0.020                                                           | 0.120                                                           | 0.050                                                           | 0.070                                                 | 0.090                                                          | 2.5                                                      |
| DEC   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                 |                                                                 |                                                                 |                                                       |                                                                |                                                          |
| 05... | 1530 | 43                                                                    | 110                                                          | 7.3                                                                  | 16.0                                            | 8.1                                            | 0.020                                                           | 0.120                                                           | 0.060                                                           | 0.100                                                 | 0.080                                                          | 2.0                                                      |
| 12... | 1400 | 112                                                                   | 87                                                           | 6.9                                                                  | 7.5                                             | 12.5                                           | 0.030                                                           | 0.220                                                           | 0.180                                                           | 0.160                                                 | 0.140                                                          | 5.1                                                      |
| FEB   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                 |                                                                 |                                                                 |                                                       |                                                                |                                                          |
| 26... | 1700 | 56                                                                    | 106                                                          | 7.4                                                                  | 20.5                                            | 8.7                                            | --                                                              | --                                                              | --                                                              | --                                                    | --                                                             | --                                                       |
| MAY   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                 |                                                                 |                                                                 |                                                       |                                                                |                                                          |
| 20... | 1730 | 64                                                                    | 118                                                          | 7.6                                                                  | 31.0                                            | 7.6                                            | --                                                              | --                                                              | --                                                              | --                                                    | --                                                             | --                                                       |
| AUG   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                 |                                                                 |                                                                 |                                                       |                                                                |                                                          |
| 14... | 0830 | 28                                                                    | 115                                                          | 6.6                                                                  | 23.5                                            | 8.3                                            | --                                                              | --                                                              | --                                                              | --                                                    | --                                                             | --                                                       |

## YAZOO RIVER BASIN

07287160 ABIACA CREEK AT CRUGER, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| 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       | 28                         | 17                                   | 1.3                                 | 33                         | 76                                   | 6.8                                 | 33                         | 290                                  | 26                                  |
| 2       | 29                         | 42                                   | 3.3                                 | 40                         | 63                                   | 6.8                                 | 31                         | 113                                  | 9.5                                 |
| 3       | 35                         | 84                                   | 8.1                                 | 38                         | 51                                   | 5.2                                 | 33                         | 96                                   | 8.7                                 |
| 4       | 35                         | 66                                   | 6.2                                 | 37                         | 37                                   | 3.7                                 | 40                         | 279                                  | 30                                  |
| 5       | 33                         | 47                                   | 4.2                                 | 35                         | 29                                   | 2.7                                 | 38                         | 116                                  | 12                                  |
| 6       | 30                         | 35                                   | 2.8                                 | 35                         | 39                                   | 3.7                                 | 33                         | 57                                   | 5.1                                 |
| 7       | 30                         | 30                                   | 2.4                                 | 39                         | 55                                   | 5.8                                 | 32                         | 43                                   | 3.8                                 |
| 8       | 30                         | 27                                   | 2.2                                 | 39                         | 51                                   | 5.3                                 | 78                         | 393                                  | 285                                 |
| 9       | 30                         | 26                                   | 2.1                                 | 37                         | 44                                   | 4.4                                 | 170                        | 946                                  | 434                                 |
| 10      | 28                         | 30                                   | 2.3                                 | 35                         | 39                                   | 3.7                                 | 450                        | 2100                                 | 2550                                |
| 11      | 29                         | 37                                   | 2.9                                 | 84                         | 250                                  | 67                                  | 190                        | 159                                  | 82                                  |
| 12      | 29                         | 45                                   | 3.5                                 | 63                         | 58                                   | 11                                  | 70                         | 81                                   | 15                                  |
| 13      | 29                         | 53                                   | 4.2                                 | 46                         | 47                                   | 5.7                                 | 58                         | 169                                  | 26                                  |
| 14      | 32                         | 47                                   | 4.0                                 | 49                         | 100                                  | 13                                  | 50                         | 191                                  | 26                                  |
| 15      | 36                         | 39                                   | 3.8                                 | 39                         | 100                                  | 10                                  | 47                         | 182                                  | 23                                  |
| 16      | 33                         | 32                                   | 2.9                                 | 38                         | 77                                   | 8.0                                 | 45                         | 363                                  | 44                                  |
| 17      | 29                         | 28                                   | 2.2                                 | 36                         | 65                                   | 6.3                                 | 135                        | 161                                  | 59                                  |
| 18      | 29                         | 28                                   | 2.2                                 | 37                         | 56                                   | 5.6                                 | 350                        | 1260                                 | 1190                                |
| 19      | 29                         | 30                                   | 2.3                                 | 35                         | 48                                   | 4.6                                 | 920                        | 1530                                 | 1380                                |
| 20      | 29                         | 29                                   | 2.3                                 | 34                         | 41                                   | 3.8                                 | 820                        | 220                                  | 487                                 |
| 21      | 29                         | 28                                   | 2.2                                 | 34                         | 35                                   | 3.2                                 | 300                        | 160                                  | 130                                 |
| 22      | 29                         | 27                                   | 2.1                                 | 31                         | 30                                   | 2.6                                 | 170                        | 124                                  | 57                                  |
| 23      | 29                         | 27                                   | 2.1                                 | 41                         | 129                                  | 18                                  | 110                        | 97                                   | 29                                  |
| 24      | 27                         | 30                                   | 2.2                                 | 44                         | 268                                  | 34                                  | 90                         | 76                                   | 18                                  |
| 25      | 28                         | 35                                   | 2.6                                 | 37                         | 54                                   | 5.4                                 | 80                         | 59                                   | 13                                  |
| 26      | 29                         | 41                                   | 3.2                                 | 39                         | 69                                   | 7.3                                 | 72                         | 47                                   | 9.0                                 |
| 27      | 36                         | 48                                   | 4.6                                 | 40                         | 74                                   | 8.0                                 | 67                         | 44                                   | 8.0                                 |
| 28      | 35                         | 51                                   | 4.9                                 | 37                         | 78                                   | 7.8                                 | 63                         | 42                                   | 7.0                                 |
| 29      | 34                         | 34                                   | 3.1                                 | 34                         | 83                                   | 7.6                                 | 60                         | 42                                   | 7.0                                 |
| 30      | 30                         | 23                                   | 1.8                                 | 33                         | 157                                  | 14                                  | 58                         | 242                                  | 41                                  |
| 31      | 31                         | 35                                   | 2.9                                 | ---                        | ---                                  | ---                                 | 68                         | 135                                  | 25                                  |
| JANUARY |                            |                                      | FEBRUARY                            |                            |                                      | MARCH                               |                            |                                      |                                     |
| 1       | 69                         | 51                                   | 9.6                                 | 91                         | 100                                  | 25                                  | 53                         | 56                                   | 8.0                                 |
| 2       | 84                         | 301                                  | 72                                  | 213                        | 336                                  | 239                                 | 54                         | 46                                   | 6.7                                 |
| 3       | 285                        | 806                                  | 107                                 | 159                        | 156                                  | 68                                  | 52                         | 37                                   | 5.3                                 |
| 4       | 150                        | 272                                  | 110                                 | 117                        | 118                                  | 37                                  | 50                         | 30                                   | 4.1                                 |
| 5       | 84                         | 180                                  | 41                                  | 98                         | 92                                   | 24                                  | 47                         | 24                                   | 3.1                                 |
| 6       | 75                         | 98                                   | 20                                  | 85                         | 67                                   | 15                                  | 83                         | 355                                  | 101                                 |
| 7       | 520                        | 917                                  | 1290                                | 84                         | 78                                   | 18                                  | 75                         | 203                                  | 42                                  |
| 8       | 360                        | 470                                  | 457                                 | 84                         | 86                                   | 20                                  | 67                         | 106                                  | 19                                  |
| 9       | 180                        | 232                                  | 113                                 | 82                         | 119                                  | 26                                  | 61                         | 64                                   | 10                                  |
| 10      | 120                        | 199                                  | 64                                  | 78                         | 120                                  | 25                                  | 55                         | 57                                   | 8.4                                 |
| 11      | 89                         | 171                                  | 41                                  | 75                         | 111                                  | 22                                  | 52                         | 58                                   | 8.0                                 |
| 12      | 92                         | 159                                  | 40                                  | 68                         | 104                                  | 19                                  | 49                         | 95                                   | 13                                  |
| 13      | 83                         | 140                                  | 31                                  | 66                         | 98                                   | 17                                  | 49                         | 136                                  | 18                                  |
| 14      | 90                         | 125                                  | 30                                  | 65                         | 101                                  | 18                                  | 48                         | 128                                  | 17                                  |
| 15      | 83                         | 111                                  | 25                                  | 62                         | 99                                   | 17                                  | 49                         | 119                                  | 16                                  |
| 16      | 72                         | 99                                   | 19                                  | 62                         | 94                                   | 16                                  | 46                         | 113                                  | 14                                  |
| 17      | 66                         | 91                                   | 16                                  | 60                         | 85                                   | 14                                  | 46                         | 108                                  | 13                                  |
| 18      | 63                         | 112                                  | 19                                  | 58                         | 76                                   | 12                                  | 52                         | 102                                  | 14                                  |
| 19      | 65                         | 120                                  | 21                                  | 62                         | 68                                   | 11                                  | 139                        | 451                                  | 176                                 |
| 20      | 67                         | 88                                   | 16                                  | 63                         | 63                                   | 11                                  | 107                        | 145                                  | 42                                  |
| 21      | 64                         | 66                                   | 11                                  | 62                         | 60                                   | 10                                  | 86                         | 184                                  | 43                                  |
| 22      | 61                         | 50                                   | 8.2                                 | 59                         | 57                                   | 9.2                                 | 76                         | 167                                  | 34                                  |
| 23      | 58                         | 46                                   | 7.2                                 | 58                         | 55                                   | 8.6                                 | 68                         | 157                                  | 29                                  |
| 24      | 124                        | 405                                  | 166                                 | 57                         | 53                                   | 8.1                                 | 64                         | 153                                  | 26                                  |
| 25      | 101                        | 112                                  | 31                                  | 56                         | 55                                   | 8.2                                 | 220                        | 887                                  | 640                                 |
| 26      | 343                        | 491                                  | 1300                                | 56                         | 53                                   | 8.0                                 | 155                        | 299                                  | 130                                 |
| 27      | 676                        | 821                                  | 1970                                | 52                         | 56                                   | 8.0                                 | 108                        | 185                                  | 54                                  |
| 28      | 217                        | 247                                  | 150                                 | 57                         | 76                                   | 12                                  | 89                         | 180                                  | 43                                  |
| 29      | 136                        | 132                                  | 49                                  | 55                         | 68                                   | 10                                  | 81                         | 215                                  | 47                                  |
| 30      | 110                        | 107                                  | 32                                  | ---                        | ---                                  | ---                                 | 79                         | 218                                  | 46                                  |
| 31      | 102                        | 113                                  | 31                                  | ---                        | ---                                  | ---                                 | 88                         | 220                                  | 52                                  |



## 07287160 ABIACA CREEK AT CRUGER, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| 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     | 82                         | 129                                  | 29                                  | 139                        | 166                                  | 62                                  | 62                         | 105                                  | 19                                  |
| 2     | 72                         | 141                                  | 27                                  | 125                        | 153                                  | 51                                  | 214                        | 1450                                 | 1060                                |
| 3     | 69                         | 189                                  | 35                                  | 116                        | 124                                  | 39                                  | 89                         | 167                                  | 40                                  |
| 4     | 66                         | 178                                  | 31                                  | 113                        | 100                                  | 31                                  | 68                         | 171                                  | 31                                  |
| 5     | 64                         | 146                                  | 25                                  | 106                        | 81                                   | 23                                  | 61                         | 211                                  | 34                                  |
| 6     | 65                         | 120                                  | 21                                  | 97                         | 67                                   | 18                                  | 58                         | 272                                  | 43                                  |
| 7     | 64                         | 99                                   | 17                                  | 92                         | 95                                   | 24                                  | 52                         | 315                                  | 45                                  |
| 8     | 58                         | 86                                   | 13                                  | 90                         | 155                                  | 38                                  | 65                         | 336                                  | 60                                  |
| 9     | 54                         | 118                                  | 17                                  | 87                         | 174                                  | 41                                  | 58                         | 181                                  | 28                                  |
| 10    | 55                         | 170                                  | 25                                  | 88                         | 187                                  | 44                                  | 53                         | 84                                   | 12                                  |
| 11    | 54                         | 193                                  | 28                                  | 98                         | 191                                  | 51                                  | 47                         | 98                                   | 13                                  |
| 12    | 53                         | 217                                  | 31                                  | 94                         | 127                                  | 33                                  | 47                         | 139                                  | 18                                  |
| 13    | 75                         | 237                                  | 48                                  | 82                         | 91                                   | 20                                  | 47                         | 127                                  | 16                                  |
| 14    | 124                        | 628                                  | 544                                 | 76                         | 92                                   | 19                                  | 47                         | 122                                  | 16                                  |
| 15    | 1180                       | 2390                                 | 8680                                | 77                         | 127                                  | 27                                  | 49                         | 121                                  | 16                                  |
| 16    | 400                        | 479                                  | 551                                 | 73                         | 164                                  | 32                                  | 47                         | 106                                  | 13                                  |
| 17    | 179                        | 255                                  | 125                                 | 69                         | 149                                  | 28                                  | 45                         | 89                                   | 11                                  |
| 18    | 129                        | 209                                  | 73                                  | 69                         | 118                                  | 22                                  | 42                         | 76                                   | 8.5                                 |
| 19    | 109                        | 185                                  | 55                                  | 70                         | 94                                   | 18                                  | 43                         | 65                                   | 7.5                                 |
| 20    | 131                        | 229                                  | 190                                 | 66                         | 74                                   | 13                                  | 40                         | 64                                   | 6.9                                 |
| 21    | 1660                       | 1740                                 | 8310                                | 61                         | 68                                   | 11                                  | 39                         | 62                                   | 6.5                                 |
| 22    | 736                        | 758                                  | 1880                                | 62                         | 70                                   | 12                                  | 39                         | 60                                   | 6.3                                 |
| 23    | 2170                       | 2450                                 | 16700                               | 63                         | 72                                   | 12                                  | 38                         | 58                                   | 6.0                                 |
| 24    | 612                        | 595                                  | 989                                 | 58                         | 74                                   | 12                                  | 37                         | 56                                   | 5.6                                 |
| 25    | 314                        | 417                                  | 363                                 | 60                         | 76                                   | 12                                  | 34                         | 61                                   | 5.7                                 |
| 26    | 160                        | 234                                  | 105                                 | 56                         | 75                                   | 11                                  | 37                         | 96                                   | 9.6                                 |
| 27    | 95                         | 104                                  | 27                                  | 57                         | 86                                   | 13                                  | 36                         | 153                                  | 15                                  |
| 28    | 128                        | 162                                  | 67                                  | 66                         | 262                                  | 49                                  | 35                         | 202                                  | 19                                  |
| 29    | 180                        | 192                                  | 94                                  | 67                         | 213                                  | 39                                  | 35                         | 249                                  | 24                                  |
| 30    | 160                        | 195                                  | 85                                  | 59                         | 165                                  | 26                                  | 37                         | 152                                  | 15                                  |
| 31    | ---                        | ---                                  | ---                                 | 54                         | 125                                  | 18                                  | ---                        | ---                                  | ---                                 |
| JULY  |                            |                                      | AUGUST                              |                            |                                      | SEPTEMBER                           |                            |                                      |                                     |
| 1     | 35                         | 63                                   | 5.9                                 | 37                         | 68                                   | 6.8                                 | 26                         | 241                                  | 17                                  |
| 2     | 34                         | 55                                   | 5.0                                 | 60                         | 377                                  | 104                                 | 27                         | 209                                  | 16                                  |
| 3     | 34                         | 61                                   | 5.5                                 | 74                         | 402                                  | 93                                  | 32                         | 201                                  | 18                                  |
| 4     | 33                         | 59                                   | 5.3                                 | 35                         | 143                                  | 14                                  | 42                         | 272                                  | 31                                  |
| 5     | 31                         | 56                                   | 4.7                                 | 30                         | 85                                   | 6.9                                 | 32                         | 333                                  | 29                                  |
| 6     | 29                         | 54                                   | 4.2                                 | 29                         | 99                                   | 7.7                                 | 31                         | 419                                  | 36                                  |
| 7     | 31                         | 51                                   | 4.3                                 | 30                         | 157                                  | 13                                  | 31                         | 375                                  | 31                                  |
| 8     | 31                         | 49                                   | 4.2                                 | 28                         | 173                                  | 13                                  | 29                         | 254                                  | 20                                  |
| 9     | 28                         | 56                                   | 4.2                                 | 28                         | 160                                  | 12                                  | 29                         | 191                                  | 15                                  |
| 10    | 28                         | 69                                   | 5.3                                 | 30                         | 147                                  | 12                                  | 27                         | 315                                  | 23                                  |
| 11    | 29                         | 100                                  | 7.9                                 | 30                         | 135                                  | 11                                  | 28                         | 427                                  | 32                                  |
| 12    | 28                         | 150                                  | 11                                  | 35                         | 128                                  | 12                                  | 26                         | 372                                  | 27                                  |
| 13    | 29                         | 109                                  | 8.5                                 | 30                         | 150                                  | 12                                  | 25                         | 283                                  | 19                                  |
| 14    | 34                         | 55                                   | 4.8                                 | 30                         | 183                                  | 15                                  | 26                         | 213                                  | 15                                  |
| 15    | 49                         | 148                                  | 23                                  | 28                         | 218                                  | 16                                  | 25                         | 148                                  | 10                                  |
| 16    | 35                         | 132                                  | 13                                  | 27                         | 242                                  | 17                                  | 179                        | 922                                  | 887                                 |
| 17    | 34                         | 71                                   | 6.6                                 | 27                         | 284                                  | 21                                  | 124                        | 433                                  | 148                                 |
| 18    | 30                         | 55                                   | 4.5                                 | 28                         | 225                                  | 17                                  | 77                         | 303                                  | 63                                  |
| 19    | 29                         | 42                                   | 3.3                                 | 30                         | 160                                  | 13                                  | 59                         | 364                                  | 58                                  |
| 20    | 29                         | 36                                   | 2.8                                 | 29                         | 123                                  | 10                                  | 48                         | 250                                  | 33                                  |
| 21    | 29                         | 34                                   | 2.6                                 | 25                         | 171                                  | 12                                  | 49                         | 197                                  | 26                                  |
| 22    | 27                         | 31                                   | 2.3                                 | 23                         | 224                                  | 14                                  | 50                         | 166                                  | 23                                  |
| 23    | 50                         | 143                                  | 19                                  | 23                         | 179                                  | 11                                  | 42                         | 140                                  | 16                                  |
| 24    | 37                         | 114                                  | 12                                  | 24                         | 113                                  | 7.2                                 | 38                         | 118                                  | 12                                  |
| 25    | 60                         | 497                                  | 90                                  | 27                         | 99                                   | 7.1                                 | 36                         | 137                                  | 14                                  |
| 26    | 36                         | 245                                  | 24                                  | 31                         | 106                                  | 9.0                                 | 36                         | 392                                  | 38                                  |
| 27    | 33                         | 144                                  | 13                                  | 36                         | 189                                  | 18                                  | 97                         | 586                                  | 204                                 |
| 28    | 34                         | 86                                   | 7.9                                 | 24                         | 368                                  | 24                                  | 110                        | 278                                  | 87                                  |
| 29    | 32                         | 54                                   | 4.7                                 | 27                         | 368                                  | 27                                  | 75                         | 113                                  | 23                                  |
| 30    | 31                         | 78                                   | 6.8                                 | 29                         | 320                                  | 25                                  | 59                         | 64                                   | 10                                  |
| 31    | 41                         | 115                                  | 14                                  | 26                         | 278                                  | 20                                  | ---                        | ---                                  | ---                                 |

07287355 FANNEGUSHA CREEK NEAR HOWARD, MS

LOCATION.--Lat 33°08'13", long 90°11'40", in NW1/4 NE1/4 sec.28, T.15 N., R.1 E., Chickasaw 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>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--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.

REVISED RECORDS.--WDR MS-92-1: 1955 (M), Drainage area.

GAGE.--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).

REMARKS.--Estimated daily discharges: Jan. 10-26, Sept. 6-11. Records good except for estimated daily discharges, which are poor.

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) |
|---------|------|--------------------------------|------------------|---------|------|--------------------------------|------------------|
| Jan. 26 | 2345 | 4,990                          | 17.16            | May 28  | 1815 | 6,510                          | 18.56            |
| Apr. 21 | 0615 | 5,060                          | 17.23            | Jun. 02 | 0245 | 6,060                          | 18.17            |
| Apr. 23 | 0830 | *7,060                         | *19.02           |         |      |                                |                  |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN   | FEB  | MAR  | APR   | MAY   | JUN   | JUL  | AUG  | SEP  |
|-------|------|------|------|-------|------|------|-------|-------|-------|------|------|------|
| 1     | 18   | 18   | 18   | 40    | 80   | 36   | 42    | 63    | 499   | 20   | 35   | 21   |
| 2     | 18   | 24   | 18   | 778   | 1250 | 35   | 38    | 54    | 3020  | 20   | 31   | 21   |
| 3     | 21   | 26   | 17   | 126   | 346  | 35   | 37    | 49    | 740   | 20   | 44   | 27   |
| 4     | 22   | 21   | 38   | 55    | 114  | 34   | 36    | 45    | 259   | 19   | 150  | 33   |
| 5     | 20   | 19   | 23   | 42    | 79   | 34   | 35    | 42    | 105   | 19   | 31   | 44   |
| 6     | 18   | 19   | 19   | 518   | 66   | 42   | 34    | 40    | 78    | 18   | 30   | e30  |
| 7     | 18   | 22   | 18   | 340   | 69   | 57   | 34    | 38    | 64    | 18   | 58   | e25  |
| 8     | 17   | 30   | 18   | 79    | 73   | 44   | 34    | 36    | 68    | 18   | 26   | e23  |
| 9     | 17   | 24   | 104  | 54    | 70   | 37   | 33    | 34    | 51    | 18   | 24   | e24  |
| 10    | 17   | 20   | 41   | e50   | 59   | 35   | 32    | 34    | 44    | 18   | 24   | e27  |
| 11    | 17   | 27   | 26   | e60   | 52   | 35   | 32    | 40    | 40    | 17   | 23   | e24  |
| 12    | 18   | 40   | 22   | e160  | 47   | 34   | 32    | 39    | 37    | 17   | 24   | 20   |
| 13    | 18   | 25   | 21   | e80   | 44   | 34   | 84    | 33    | 35    | 17   | 24   | 19   |
| 14    | 20   | 21   | 20   | e50   | 42   | 35   | 306   | 31    | 33    | 17   | 23   | 19   |
| 15    | 21   | 19   | 19   | e44   | 41   | 35   | 1740  | 30    | 31    | 19   | 22   | 20   |
| 16    | 20   | 19   | 36   | e40   | 39   | 34   | 354   | 29    | 30    | 50   | 22   | 174  |
| 17    | 18   | 18   | 156  | e38   | 38   | 33   | 119   | 28    | 29    | 60   | 22   | 53   |
| 18    | 18   | 18   | 1240 | e54   | 37   | 47   | 80    | 27    | 27    | 33   | 22   | 25   |
| 19    | 18   | 18   | 1130 | e72   | 39   | 409  | 65    | 26    | 26    | 31   | 25   | 21   |
| 20    | 17   | 18   | 111  | e47   | 51   | 110  | 941   | 25    | 26    | 30   | 23   | 20   |
| 21    | 17   | 18   | 58   | e41   | 47   | 59   | 3390  | 25    | 25    | 29   | 22   | 21   |
| 22    | 17   | 17   | 44   | e37   | 41   | 48   | 884   | 24    | 24    | 28   | 22   | 21   |
| 23    | 17   | 18   | 38   | e48   | 39   | 42   | 4570  | 23    | 24    | 28   | 21   | 19   |
| 24    | 17   | 22   | 34   | e680  | 38   | 39   | 1070  | 22    | 23    | 28   | 22   | 18   |
| 25    | 16   | 22   | 32   | e125  | 36   | 429  | 729   | 21    | 23    | 57   | 21   | 17   |
| 26    | 17   | 19   | 31   | e400  | 35   | 210  | 422   | 21    | 23    | 40   | 21   | 17   |
| 27    | 19   | 19   | 30   | 2130  | 35   | 77   | 164   | 20    | 22    | 48   | 21   | 71   |
| 28    | 24   | 18   | 28   | 664   | 37   | 59   | 111   | 2600  | 21    | 71   | 21   | 33   |
| 29    | 21   | 18   | 27   | 290   | 37   | 51   | 101   | 1190  | 21    | 50   | 24   | 22   |
| 30    | 18   | 18   | 27   | 141   | ---  | 46   | 79    | 602   | 21    | 33   | 28   | 19   |
| 31    | 17   | ---  | 27   | 100   | ---  | 44   | ---   | 207   | ---   | 34   | 23   | ---  |
| TOTAL | 571  | 635  | 3471 | 7383  | 2981 | 2299 | 15628 | 5498  | 5469  | 925  | 929  | 928  |
| MEAN  | 18.4 | 21.2 | 112  | 238   | 103  | 74.2 | 521   | 177   | 182   | 29.8 | 30.0 | 30.9 |
| MAX   | 24   | 40   | 1240 | 2130  | 1250 | 429  | 4570  | 2600  | 3020  | 71   | 150  | 174  |
| MIN   | 16   | 17   | 17   | 37    | 35   | 33   | 32    | 20    | 21    | 17   | 21   | 17   |
| MED   | 18   | 19   | 28   | 72    | 44   | 42   | 82    | 34    | 30    | 28   | 23   | 21   |
| AC-FT | 1130 | 1260 | 6880 | 14640 | 5910 | 4560 | 31000 | 10910 | 10850 | 1830 | 1840 | 1840 |
| CFSM  | .18  | .21  | 1.09 | 2.31  | 1.00 | .72  | 5.06  | 1.72  | 1.77  | .29  | .29  | .30  |
| IN.   | .21  | .23  | 1.25 | 2.67  | 1.08 | .83  | 5.64  | 1.99  | 1.98  | .33  | .34  | .34  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1996, BY WATER YEAR (WY)

|      | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 31.8 | 70.1 | 214  | 236  | 305  | 287  | 378  | 161  | 125  | 89.5 | 44.2 | 51.7 |
| MAX  | 78.7 | 188  | 756  | 468  | 733  | 479  | 1635 | 524  | 422  | 304  | 123  | 153  |
| (WY) | 1995 | 1990 | 1991 | 1990 | 1991 | 1995 | 1991 | 1991 | 1989 | 1989 | 1989 | 1994 |
| MIN  | 11.0 | 21.2 | 59.7 | 59.2 | 103  | 74.2 | 57.2 | 20.2 | 14.1 | 20.7 | 9.87 | 16.3 |
| (WY) | 1988 | 1996 | 1990 | 1992 | 1996 | 1996 | 1987 | 1988 | 1988 | 1988 | 1988 | 1995 |

## SUMMARY STATISTICS

## FOR 1995 CALENDAR YEAR

## FOR 1996 WATER YEAR

## WATER YEARS 1987 - 1996

|                          | 1995  | 1996  | 1987-1996 |
|--------------------------|-------|-------|-----------|
| ANNUAL TOTAL             | 57278 | 46717 | 171       |
| ANNUAL MEAN              | 157   | 128   | 378       |
| HIGHEST ANNUAL MEAN      |       |       | 73.3      |
| LOWEST ANNUAL MEAN       |       |       | 6.9       |
| HIGHEST DAILY MEAN       | 6890  | 4570  | 14700     |
| LOWEST DAILY MEAN        | 15    | 16    | 6.9       |
| ANNUAL SEVEN-DAY MINIMUM | 15    | 17    | 8.1       |
| INSTANTANEOUS PEAK FLOW  |       | 7060  | 20800     |
| INSTANTANEOUS PEAK STAGE |       | 19.02 | 21.27     |
| ANNUAL RUNOFF (CFSM)     | 1.52  | 1.24  | 1.66      |
| ANNUAL RUNOFF (INCHES)   | 20.69 | 16.87 | 22.56     |
| 10 PERCENT EXCEEDS       | 200   | 157   | 296       |
| 50 PERCENT EXCEEDS       | 33    | 32    | 38        |
| 90 PERCENT EXCEEDS       | 17    | 18    | 16        |

e Estimated

07287355 FANNEGUSHA CREEK NEAR HOWARD, MS--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1987 to current year.

PERIOD OF DAILY RECORD.--

SUSPENDED SEDIMENT CONCENTRATION: March 1987 to May 1989.

SUSPENDED SEDIMENT DISCHARGE: March 1987 to May 1989.

## WATER QUALITY 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) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | PHOS-<br>PHORUS<br>ORTHO<br>TOTAL<br>(MG/L<br>AS P)<br>(70507) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) |
|-------|------|-----------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|
| OCT   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                 |                                                                 |                                                                 |                                                       |                                                                |                                                          |
| 03... | 1100 | 21                                                                    | 191                                                          | --                                                                   | 23.5                                            | 7.3                                            | <0.010                                                          | <0.020                                                          | <0.010                                                          | 0.070                                                 | 0.040                                                          | 2.8                                                      |
| 17... | 1230 | 18                                                                    | 180                                                          | 7.8                                                                  | 18.5                                            | 6.8                                            | <0.010                                                          | <0.020                                                          | <0.010                                                          | 0.080                                                 | 0.020                                                          | 2.1                                                      |
| NOV   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                 |                                                                 |                                                                 |                                                       |                                                                |                                                          |
| 01... | 1030 | 17                                                                    | 191                                                          | 7.8                                                                  | 17.0                                            | 8.6                                            | <0.010                                                          | <0.020                                                          | <0.010                                                          | 0.030                                                 | 0.020                                                          | 2.4                                                      |
| 29... | 0930 | 18                                                                    | 181                                                          | 7.2                                                                  | 7.5                                             | 11.6                                           | 0.010                                                           | <0.020                                                          | 0.010                                                           | <0.020                                                | 0.030                                                          | 1.9                                                      |
| DEC   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                 |                                                                 |                                                                 |                                                       |                                                                |                                                          |
| 05... | 1600 | 24                                                                    | 128                                                          | 7.1                                                                  | 16.5                                            | 9.0                                            | 0.020                                                           | 0.180                                                           | 0.030                                                           | 0.160                                                 | 0.100                                                          | 5.1                                                      |
| 12... | 1300 | 22                                                                    | 150                                                          | 6.7                                                                  | 6.5                                             | 13.0                                           | 0.020                                                           | 0.170                                                           | 0.060                                                           | 0.090                                                 | 0.060                                                          | 5.3                                                      |
| FEB   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                 |                                                                 |                                                                 |                                                       |                                                                |                                                          |
| 26... | 1415 | 36                                                                    | 189                                                          | 7.2                                                                  | 21.0                                            | 10.1                                           | --                                                              | --                                                              | --                                                              | --                                                    | --                                                             | --                                                       |
| MAY   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                 |                                                                 |                                                                 |                                                       |                                                                |                                                          |
| 21... | 0900 | 25                                                                    | 208                                                          | 7.3                                                                  | 25.5                                            | 7.6                                            | --                                                              | --                                                              | --                                                              | --                                                    | --                                                             | --                                                       |

## YAZOO RIVER BASIN

07287400 BLACK CREEK AT LEXINGTON, MS

LOCATION.--Lat 33°06'19", long 90°03'12", 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.

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: Dec. 21-31, Mar. 6,7, May 5-7, Jun. 3-30, Jul. 4-8. 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) |
|---------|------|--------------------------------|------------------|--------|------|--------------------------------|------------------|
| Jan. 26 | 1930 | 3,940                          | 16.88            | May 28 | 1915 | *6,680                         | *21.78           |
| Apr. 23 | 0215 | 5,000                          | 18.91            | Jun. 2 | 0115 | 3,590                          | 16.16            |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1     | 29   | 26   | 34   | 157  | 84   | 29   | 47   | 72   | 517  | 26   | 34   | 28   |
| 2     | 29   | 69   | 29   | 259  | 798  | 29   | 43   | 65   | 1680 | 25   | 34   | 28   |
| 3     | 63   | 39   | 28   | 78   | 190  | 27   | 43   | 55   | e350 | 24   | 42   | 27   |
| 4     | 37   | 32   | 109  | 53   | 95   | 26   | 42   | 47   | e145 | e27  | 34   | 28   |
| 5     | 30   | 25   | 53   | 47   | 73   | 30   | 39   | e44  | e92  | e37  | 29   | 32   |
| 6     | 27   | 26   | 45   | 389  | 74   | e35  | 41   | e42  | e72  | e51  | 59   | 27   |
| 7     | 26   | 84   | 41   | 184  | 89   | e100 | 40   | e41  | e60  | e31  | 111  | 26   |
| 8     | 26   | 70   | 49   | 76   | 85   | 56   | 39   | 63   | e56  | e25  | 40   | 26   |
| 9     | 26   | 38   | 121  | 59   | 68   | 48   | 38   | 86   | e48  | 22   | 39   | 26   |
| 10    | 26   | 32   | 59   | 54   | 56   | 45   | 35   | 55   | e44  | 21   | 31   | 25   |
| 11    | 25   | 80   | 45   | 117  | 49   | 43   | 33   | 72   | e41  | 23   | 28   | 23   |
| 12    | 25   | 45   | 41   | 159  | 43   | 42   | 32   | 61   | e54  | 28   | 28   | 22   |
| 13    | 26   | 35   | 40   | 69   | 40   | 41   | 284  | 44   | e45  | 24   | 30   | 22   |
| 14    | 92   | 36   | 38   | 54   | 39   | 40   | 353  | 42   | e42  | 27   | 28   | 22   |
| 15    | 35   | 31   | 36   | 46   | 38   | 40   | 628  | 41   | e39  | 32   | 28   | 22   |
| 16    | 30   | 29   | 170  | 42   | 35   | 39   | 209  | 36   | e37  | 50   | 27   | 23   |
| 17    | 28   | 29   | 173  | 40   | 33   | 38   | 123  | 39   | e35  | 55   | 32   | 21   |
| 18    | 25   | 28   | 909  | 84   | 33   | 225  | 97   | 36   | e34  | 37   | 30   | 20   |
| 19    | 25   | 28   | 537  | 102  | 44   | 366  | 91   | 38   | e33  | 25   | 27   | 20   |
| 20    | 24   | 27   | 159  | 57   | 60   | 95   | 155  | 38   | e32  | 23   | 26   | 20   |
| 21    | 24   | 28   | e96  | 52   | 43   | 60   | 527  | 40   | e31  | 20   | 25   | 22   |
| 22    | 24   | 29   | e74  | 47   | 37   | 48   | 604  | 46   | e30  | 21   | 25   | 22   |
| 23    | 24   | 32   | e66  | 62   | 34   | 42   | 2390 | 41   | e29  | 21   | 25   | 20   |
| 24    | 23   | 38   | e63  | 544  | 31   | 40   | 366  | 38   | e29  | 21   | 24   | 19   |
| 25    | 23   | 31   | e60  | 126  | 29   | 651  | 202  | 40   | e28  | 105  | 24   | 18   |
| 26    | 24   | 29   | e57  | 1420 | 30   | 203  | 121  | 38   | e28  | 76   | 23   | 18   |
| 27    | 35   | 28   | e53  | 967  | 29   | 90   | 80   | 38   | e27  | 32   | 23   | 71   |
| 28    | 37   | 28   | e52  | 199  | 33   | 66   | 69   | 2990 | e27  | 272  | 30   | 42   |
| 29    | 27   | 33   | e50  | 123  | 32   | 58   | 99   | 1040 | e26  | 60   | 48   | 26   |
| 30    | 25   | 37   | e49  | 96   | ---  | 53   | 91   | 284  | e26  | 37   | 49   | 23   |
| 31    | 25   | ---  | e80  | 85   | ---  | 51   | ---  | 250  | ---  | 42   | 29   | ---  |
| TOTAL | 945  | 1122 | 3416 | 5847 | 2324 | 2756 | 6961 | 5862 | 3737 | 1320 | 1062 | 769  |
| MEAN  | 30.5 | 37.4 | 110  | 189  | 80.1 | 88.9 | 232  | 189  | 125  | 42.6 | 34.3 | 25.6 |
| MAX   | 92   | 84   | 909  | 1420 | 798  | 651  | 2390 | 2990 | 1680 | 272  | 111  | 71   |
| MIN   | 23   | 25   | 28   | 40   | 29   | 26   | 32   | 36   | 26   | 20   | 23   | 18   |
| CFSM  | .35  | .42  | 1.25 | 2.14 | .91  | 1.01 | 2.63 | 2.15 | 1.41 | .48  | .39  | .29  |
| IN.   | .40  | .47  | 1.44 | 2.47 | .98  | 1.16 | 2.94 | 2.48 | 1.58 | .56  | .45  | .32  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1996, BY WATER YEAR (WY)

|      | 54.9 | 85.5 | 124  | 187  | 239  | 230  | 251  | 146  | 91.6 | 83.3 | 48.6 | 52.6 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 54.9 | 85.5 | 124  | 187  | 239  | 230  | 251  | 146  | 91.6 | 83.3 | 48.6 | 52.6 |
| MAX  | 162  | 223  | 232  | 379  | 497  | 374  | 864  | 302  | 285  | 253  | 113  | 110  |
| (WY) | 1989 | 1990 | 1991 | 1989 | 1991 | 1991 | 1991 | 1989 | 1989 | 1989 | 1994 | 1994 |
| MIN  | 18.6 | 32.2 | 68.0 | 56.2 | 80.1 | 88.8 | 45.1 | 29.7 | 21.1 | 26.0 | 18.8 | 25.2 |
| (WY) | 1988 | 1991 | 1994 | 1988 | 1996 | 1992 | 1987 | 1988 | 1988 | 1987 | 1987 | 1993 |

| SUMMARY STATISTICS       | FOR 1995 CALENDAR YEAR | FOR 1996 WATER YEAR | WATER YEARS 1987 - 1996 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 52783                  | 36121               | 135                     |
| ANNUAL MEAN              | 145                    | 98.7                | 217                     |
| HIGHEST ANNUAL MEAN      |                        |                     | 69.4                    |
| LOWEST ANNUAL MEAN       |                        |                     | 1991                    |
| HIGHEST DAILY MEAN       | 5980                   | Apr 23              | 7000                    |
| LOWEST DAILY MEAN        | 16                     | May 21              | 11                      |
| ANNUAL SEVEN-DAY MINIMUM | 18                     | May 18              | 15                      |
| INSTANTANEOUS PEAK FLOW  |                        |                     | 8300                    |
| INSTANTANEOUS PEAK STAGE |                        |                     | 24.27                   |
| ANNUAL RUNOFF (CFSM)     | 1.64                   | 1.12                | 1.53                    |
| ANNUAL RUNOFF (INCHES)   | 22.29                  | 15.25               | 20.80                   |
| 10 PERCENT EXCEEDS       | 215                    | 158                 | 235                     |
| 50 PERCENT EXCEEDS       | 44                     | 39                  | 43                      |
| 90 PERCENT EXCEEDS       | 22                     | 24                  | 22                      |

e Estimated

## 07287404 HARLAND CREEK NEAR HOWARD, MS

LOCATION.--Lat 33°06'05", long 90°10'23", in NW 1/4 SW 1/4 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 to current year.

## 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.--Unpublished records of daily specific conductance, pH, water temperature, and dissolved oxygen during selected storm events are available in files of District office. Estimated daily discharges: Aug. 31-Sept. 1. Discharge records good except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--9 years, 92.9 ft<sup>3</sup>/s, 20.32 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, 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, 4,900 ft<sup>3</sup>/s, Apr. 23, gage height, 20.21 ft; minimum, 8.6 ft<sup>3</sup>/s, Oct. 1.

SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 2,250 mg/L, Dec. 18; minimum daily mean, 27 mg/L, Sept. 13, 20-21.

SUSPENDED SEDIMENT DISCHARGE: Maximum daily, 13,800 tons, June 2; minimum daily, 1.1 tons, Sept. 25, 30.

## WATER QUALITY 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) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) |
|-------|------|-----------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------|
| OCT   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                 |
| 04... | 0900 | 42                                                                    | --                                                           | --                                                                   | 21.0                                            | 7.0                                            | 0.030                                                           |
| 17... | 1300 | 11                                                                    | 266                                                          | 7.7                                                                  | 19.0                                            | 7.4                                            | 0.010                                                           |
| NOV   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                 |
| 01... | 1015 | 12                                                                    | 293                                                          | 7.5                                                                  | 17.0                                            | 8.5                                            | <0.010                                                          |
| 29... | 1100 | 12                                                                    | 271                                                          | 7.2                                                                  | 8.5                                             | 11.4                                           | <0.010                                                          |
| DEC   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                 |
| 05... | 1615 | 19                                                                    | 190                                                          | 7.2                                                                  | 16.5                                            | 8.0                                            | 0.020                                                           |
| 12... | 1145 | 15                                                                    | 216                                                          | 6.7                                                                  | 6.0                                             | 13.4                                           | 0.020                                                           |
| JAN   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                 |
| 26... | 1530 | 1060                                                                  | --                                                           | --                                                                   | --                                              | --                                             | --                                                              |
| FEB   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                 |
| 26... | 1300 | 17                                                                    | 287                                                          | 7.3                                                                  | 19.0                                            | 9.8                                            | --                                                              |
| MAY   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                 |
| 21... | 1030 | 14                                                                    | 290                                                          | 7.3                                                                  | 24.0                                            | 7.8                                            | --                                                              |
| AUG   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                 |
| 14... | 1000 | 17                                                                    | 277                                                          | 7.1                                                                  | 24.5                                            | 7.9                                            | --                                                              |

| DATE  | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | PHOS-<br>PHORUS<br>ORTHO<br>TOTAL<br>(MG/L<br>AS P)<br>(70507) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L)<br>(80154) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDED<br>(T/DAY)<br>(80155) |
|-------|-----------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------|
| OCT   |                                                                 |                                                                 |                                                       |                                                                |                                                          |                                                       |                                                                           |
| 04... | 0.110                                                           | 0.060                                                           | 0.460                                                 | 0.260                                                          | 9.3                                                      | --                                                    | --                                                                        |
| 17... | <0.020                                                          | 0.020                                                           | 0.040                                                 | 0.040                                                          | 2.9                                                      | --                                                    | --                                                                        |
| NOV   |                                                                 |                                                                 |                                                       |                                                                |                                                          |                                                       |                                                                           |
| 01... | <0.020                                                          | 0.020                                                           | 0.040                                                 | 0.010                                                          | 3.5                                                      | --                                                    | --                                                                        |
| 29... | <0.020                                                          | 0.020                                                           | 0.040                                                 | 0.020                                                          | 2.5                                                      | --                                                    | --                                                                        |
| DEC   |                                                                 |                                                                 |                                                       |                                                                |                                                          |                                                       |                                                                           |
| 05... | 0.110                                                           | 0.050                                                           | 0.240                                                 | 0.130                                                          | 4.8                                                      | --                                                    | --                                                                        |
| 12... | 0.060                                                           | 0.080                                                           | 0.170                                                 | 0.110                                                          | 4.7                                                      | --                                                    | --                                                                        |
| JAN   |                                                                 |                                                                 |                                                       |                                                                |                                                          |                                                       |                                                                           |
| 26... | --                                                              | --                                                              | --                                                    | --                                                             | --                                                       | 4680                                                  | 13400                                                                     |
| FEB   |                                                                 |                                                                 |                                                       |                                                                |                                                          |                                                       |                                                                           |
| 26... | --                                                              | --                                                              | --                                                    | --                                                             | --                                                       | --                                                    | --                                                                        |
| MAY   |                                                                 |                                                                 |                                                       |                                                                |                                                          |                                                       |                                                                           |
| 21... | --                                                              | --                                                              | --                                                    | --                                                             | --                                                       | --                                                    | --                                                                        |
| AUG   |                                                                 |                                                                 |                                                       |                                                                |                                                          |                                                       |                                                                           |
| 14... | --                                                              | --                                                              | --                                                    | --                                                             | --                                                       | --                                                    | --                                                                        |

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| 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) |
|-------|------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|
| JAN   |      |                                                                         |                                                                         |                                                                         |                                                                         |                                                                         |                                                                         |                                                                         |                                                                         |                                                                         |
| 26... | 1530 | 15                                                                      | 18                                                                      | 22                                                                      | 35                                                                      | 55                                                                      | 86                                                                      | 88                                                                      | 98                                                                      | 100                                                                     |



## YAZOO RIVER BASIN

07287404 HARLAND CREEK NEAR HOWARD, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| 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       | 8.9                        | 52                                   | 1.3                                 | 13                         | 69                                   | 2.6                                 | 11                         | 87                                   | 2.7                                 |
| 2       | 9.2                        | 56                                   | 1.4                                 | 28                         | 146                                  | 12                                  | 13                         | 95                                   | 3.4                                 |
| 3       | 174                        | 1700                                 | 946                                 | 33                         | 126                                  | 13                                  | 10                         | 72                                   | 2.0                                 |
| 4       | 40                         | 245                                  | 27                                  | 18                         | 71                                   | 3.4                                 | 90                         | 647                                  | 213                                 |
| 5       | 19                         | 169                                  | 8.4                                 | 13                         | 59                                   | 2.0                                 | 22                         | 108                                  | 7.0                                 |
| 6       | 14                         | 122                                  | 4.5                                 | 14                         | 50                                   | 1.8                                 | 14                         | 54                                   | 2.1                                 |
| 7       | 13                         | 76                                   | 2.8                                 | 22                         | 333                                  | 23                                  | 12                         | 50                                   | 1.7                                 |
| 8       | 11                         | 75                                   | 2.3                                 | 16                         | 133                                  | 5.7                                 | 15                         | 97                                   | 5.5                                 |
| 9       | 11                         | 73                                   | 2.3                                 | 14                         | 100                                  | 3.7                                 | 121                        | 242                                  | 89                                  |
| 10      | 11                         | 65                                   | 2.0                                 | 14                         | 112                                  | 4.3                                 | 27                         | 100                                  | 7.4                                 |
| 11      | 11                         | 60                                   | 1.8                                 | 30                         | 417                                  | 38                                  | 17                         | 78                                   | 3.5                                 |
| 12      | 11                         | 59                                   | 1.8                                 | 30                         | 190                                  | 18                                  | 15                         | 63                                   | 2.6                                 |
| 13      | 11                         | 60                                   | 1.8                                 | 15                         | 84                                   | 3.4                                 | 14                         | 51                                   | 1.9                                 |
| 14      | 25                         | 113                                  | 8.5                                 | 13                         | 66                                   | 2.3                                 | 13                         | 56                                   | 2.0                                 |
| 15      | 15                         | 76                                   | 3.2                                 | 11                         | 59                                   | 1.8                                 | 15                         | 62                                   | 2.7                                 |
| 16      | 12                         | 63                                   | 2.1                                 | 11                         | 53                                   | 1.5                                 | 202                        | 1180                                 | 729                                 |
| 17      | 11                         | 61                                   | 1.9                                 | 11                         | 56                                   | 1.7                                 | 104                        | 445                                  | 136                                 |
| 18      | 11                         | 63                                   | 1.8                                 | 12                         | 46                                   | 1.6                                 | 707                        | 2250                                 | 6760                                |
| 19      | 11                         | 60                                   | 1.8                                 | 11                         | 52                                   | 1.5                                 | 404                        | 922                                  | 1860                                |
| 20      | 11                         | 57                                   | 1.7                                 | 11                         | 57                                   | 1.7                                 | 64                         | 98                                   | 18                                  |
| 21      | 11                         | 52                                   | 1.6                                 | 10                         | 56                                   | 1.5                                 | 35                         | 69                                   | 6.6                                 |
| 22      | 11                         | 48                                   | 1.4                                 | 10                         | 54                                   | 1.5                                 | 27                         | 65                                   | 4.7                                 |
| 23      | 10                         | 44                                   | 1.2                                 | 14                         | 108                                  | 4.6                                 | 24                         | 62                                   | 4.0                                 |
| 24      | 10                         | 46                                   | 1.3                                 | 16                         | 69                                   | 2.9                                 | 22                         | 60                                   | 3.6                                 |
| 25      | 11                         | 50                                   | 1.5                                 | 14                         | 50                                   | 1.9                                 | 20                         | 58                                   | 3.2                                 |
| 26      | 12                         | 52                                   | 1.7                                 | 13                         | 66                                   | 2.4                                 | 19                         | 57                                   | 2.9                                 |
| 27      | 18                         | 87                                   | 5.2                                 | 12                         | 64                                   | 2.1                                 | 19                         | 55                                   | 2.8                                 |
| 28      | 14                         | 58                                   | 2.2                                 | 11                         | 61                                   | 1.8                                 | 19                         | 55                                   | 2.7                                 |
| 29      | 12                         | 54                                   | 1.7                                 | 11                         | 53                                   | 1.6                                 | 18                         | 56                                   | 2.7                                 |
| 30      | 11                         | 53                                   | 1.6                                 | 11                         | 70                                   | 2.0                                 | 18                         | 55                                   | 2.6                                 |
| 31      | 12                         | 54                                   | 1.7                                 | ---                        | ---                                  | ---                                 | 20                         | 53                                   | 2.8                                 |
| JANUARY |                            |                                      | FEBRUARY                            |                            |                                      | MARCH                               |                            |                                      |                                     |
| 1       | 25                         | 136                                  | 16                                  | 33                         | 73                                   | 7.2                                 | 18                         | 68                                   | 3.3                                 |
| 2       | 156                        | 535                                  | 258                                 | 644                        | 1640                                 | 3870                                | 18                         | 68                                   | 3.3                                 |
| 3       | 38                         | 222                                  | 24                                  | 168                        | 90                                   | 45                                  | 17                         | 68                                   | 3.2                                 |
| 4       | 25                         | 128                                  | 8.8                                 | 59                         | 87                                   | 13                                  | 17                         | 63                                   | 2.9                                 |
| 5       | 20                         | 79                                   | 4.2                                 | 37                         | 87                                   | 8.7                                 | 17                         | 55                                   | 2.8                                 |
| 6       | 286                        | 1070                                 | 1130                                | 34                         | 60                                   | 5.5                                 | 44                         | 872                                  | 124                                 |
| 7       | 125                        | 506                                  | 201                                 | 36                         | 49                                   | 4.7                                 | 22                         | 227                                  | 14                                  |
| 8       | 42                         | 111                                  | 13                                  | 38                         | 55                                   | 5.6                                 | 17                         | 78                                   | 3.6                                 |
| 9       | 27                         | 70                                   | 5.1                                 | 32                         | 61                                   | 5.3                                 | 17                         | 71                                   | 3.2                                 |
| 10      | 23                         | 59                                   | 3.6                                 | 31                         | 58                                   | 4.8                                 | 14                         | 71                                   | 2.8                                 |
| 11      | 31                         | 201                                  | 21                                  | 24                         | 53                                   | 3.5                                 | 14                         | 70                                   | 2.7                                 |
| 12      | 85                         | 391                                  | 99                                  | 21                         | 49                                   | 2.8                                 | 14                         | 62                                   | 2.4                                 |
| 13      | 37                         | 91                                   | 9.2                                 | 20                         | 47                                   | 2.5                                 | 14                         | 56                                   | 2.2                                 |
| 14      | 25                         | 82                                   | 5.5                                 | 19                         | 55                                   | 2.9                                 | 14                         | 54                                   | 2.1                                 |
| 15      | 22                         | 74                                   | 4.3                                 | 19                         | 55                                   | 2.9                                 | 15                         | 52                                   | 2.1                                 |
| 16      | 20                         | 66                                   | 3.6                                 | 19                         | 50                                   | 2.5                                 | 17                         | 53                                   | 2.4                                 |
| 17      | 19                         | 58                                   | 3.0                                 | 20                         | 45                                   | 2.4                                 | 15                         | 54                                   | 2.2                                 |
| 18      | 26                         | 89                                   | 6.9                                 | 17                         | 46                                   | 2.1                                 | 118                        | 1340                                 | 971                                 |
| 19      | 37                         | 94                                   | 9.5                                 | 24                         | 59                                   | 4.0                                 | 146                        | 374                                  | 178                                 |
| 20      | 23                         | 62                                   | 3.9                                 | 33                         | 91                                   | 8.3                                 | 41                         | 106                                  | 12                                  |
| 21      | 21                         | 56                                   | 3.2                                 | 25                         | 52                                   | 3.5                                 | 26                         | 67                                   | 4.7                                 |
| 22      | 20                         | 52                                   | 2.8                                 | 21                         | 39                                   | 2.2                                 | 23                         | 51                                   | 3.1                                 |
| 23      | 24                         | 59                                   | 6.0                                 | 19                         | 38                                   | 2.0                                 | 23                         | 47                                   | 2.9                                 |
| 24      | 381                        | 979                                  | 1240                                | 19                         | 37                                   | 1.9                                 | 20                         | 46                                   | 2.4                                 |
| 25      | 72                         | 228                                  | 47                                  | 17                         | 41                                   | 1.9                                 | 454                        | 1900                                 | 2760                                |
| 26      | 1040                       | 2230                                 | 13000                               | 17                         | 45                                   | 2.0                                 | 118                        | 256                                  | 91                                  |
| 27      | 674                        | 1020                                 | 3130                                | 17                         | 51                                   | 2.3                                 | 52                         | 124                                  | 18                                  |
| 28      | 151                        | 225                                  | 95                                  | 18                         | 65                                   | 3.1                                 | 38                         | 87                                   | 9.0                                 |
| 29      | 71                         | 118                                  | 23                                  | 16                         | 67                                   | 2.9                                 | 32                         | 65                                   | 5.7                                 |
| 30      | 47                         | 83                                   | 11                                  | ---                        | ---                                  | ---                                 | 32                         | 54                                   | 4.6                                 |
| 31      | 36                         | 63                                   | 6.2                                 | ---                        | ---                                  | ---                                 | 28                         | 50                                   | 3.7                                 |

## 07287404 HARLAND CREEK NEAR HOWARD, MS--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DAY   | MEAN      | MEAN               | SEDIMENT   | MEAN      | MEAN               | SEDIMENT   | MEAN      | MEAN               | SEDIMENT   |
|-------|-----------|--------------------|------------|-----------|--------------------|------------|-----------|--------------------|------------|
|       | DISCHARGE | CONCEN-<br>TRATION |            | DISCHARGE | CONCEN-<br>TRATION |            | DISCHARGE | CONCEN-<br>TRATION |            |
|       | (CFS)     | (MG/L)             | (TONS/DAY) | (CFS)     | (MG/L)             | (TONS/DAY) | (CFS)     | (MG/L)             | (TONS/DAY) |
| APRIL |           |                    | MAY        |           |                    | JUNE       |           |                    |            |
| 1     | 25        | 46                 | 3.1        | 37        | 73                 | 7.3        | 338       | 1000               | 6260       |
| 2     | 23        | 43                 | 2.6        | 34        | 53                 | 4.9        | 1440      | 2010               | 13800      |
| 3     | 20        | 40                 | 2.2        | 30        | 49                 | 4.0        | 146       | 163                | 66         |
| 4     | 20        | 38                 | 2.1        | 28        | 46                 | 3.5        | 70        | 189                | 35         |
| 5     | 20        | 37                 | 2.0        | 26        | 44                 | 3.1        | 43        | 118                | 14         |
| 6     | 24        | 39                 | 2.5        | 23        | 42                 | 2.5        | 33        | 61                 | 5.6        |
| 7     | 20        | 41                 | 2.2        | 20        | 40                 | 2.2        | 30        | 54                 | 4.3        |
| 8     | 19        | 43                 | 2.2        | 19        | 38                 | 2.0        | 72        | 233                | 57         |
| 9     | 19        | 41                 | 2.1        | 21        | 39                 | 2.1        | 32        | 76                 | 6.7        |
| 10    | 18        | 44                 | 2.2        | 20        | 39                 | 2.2        | 25        | 58                 | 3.9        |
| 11    | 18        | 46                 | 2.2        | 26        | 41                 | 2.9        | 23        | 82                 | 5.0        |
| 12    | 18        | 46                 | 2.3        | 24        | 43                 | 2.7        | 22        | 118                | 7.1        |
| 13    | 184       | 753                | 401        | 19        | 44                 | 2.3        | 23        | 152                | 9.5        |
| 14    | 515       | 1270               | 4770       | 17        | 44                 | 2.1        | 26        | 118                | 10         |
| 15    | 545       | 749                | 1830       | 17        | 44                 | 2.0        | 31        | 98                 | 8.4        |
| 16    | 143       | 182                | 72         | 16        | 44                 | 1.9        | 22        | 60                 | 3.5        |
| 17    | 69        | 119                | 23         | 17        | 44                 | 2.0        | 19        | 50                 | 2.6        |
| 18    | 44        | 91                 | 11         | 17        | 42                 | 1.9        | 19        | 51                 | 2.6        |
| 19    | 38        | 72                 | 7.5        | 15        | 40                 | 1.6        | 18        | 53                 | 2.5        |
| 20    | 65        | 160                | 43         | 15        | 38                 | 1.5        | 18        | 51                 | 2.5        |
| 21    | 488       | 880                | 1540       | 14        | 40                 | 1.6        | 18        | 50                 | 2.4        |
| 22    | 449       | 1050               | 7070       | 14        | 43                 | 1.7        | 19        | 48                 | 2.5        |
| 23    | 2200      | 1830               | 13500      | 14        | 41                 | 1.6        | 22        | 47                 | 2.8        |
| 24    | 298       | 392                | 340        | 14        | 40                 | 1.5        | 18        | 47                 | 2.3        |
| 25    | 171       | 191                | 89         | 15        | 40                 | 1.6        | 18        | 47                 | 2.2        |
| 26    | 120       | 124                | 40         | 13        | 39                 | 1.4        | 17        | 46                 | 2.1        |
| 27    | 79        | 99                 | 21         | 13        | 39                 | 1.4        | 17        | 46                 | 2.1        |
| 28    | 54        | 81                 | 12         | 689       | 1430               | 6460       | 17        | 46                 | 2.1        |
| 29    | 51        | 107                | 15         | 471       | 662                | 1740       | 19        | 41                 | 2.1        |
| 30    | 56        | 172                | 28         | 49        | 95                 | 13         | 16        | 41                 | 1.8        |
| 31    | ---       | ---                | ---        | 24        | 47                 | 3.1        | ---       | ---                | ---        |
| JULY  |           |                    | AUGUST     |           |                    | SEPTEMBER  |           |                    |            |
| 1     | 16        | 41                 | 1.8        | 18        | 67                 | 3.2        | 20        | 85                 | 4.6        |
| 2     | 16        | 41                 | 1.8        | 22        | 89                 | 5.4        | 17        | 45                 | 2.0        |
| 3     | 16        | 61                 | 2.7        | 19        | 61                 | 3.2        | 16        | 43                 | 1.9        |
| 4     | 15        | 66                 | 2.8        | 27        | 114                | 13         | 17        | 42                 | 1.9        |
| 5     | 17        | 58                 | 2.7        | 30        | 85                 | 7.2        | 16        | 30                 | 1.3        |
| 6     | 18        | 49                 | 2.4        | 22        | 98                 | 6.9        | 16        | 29                 | 1.3        |
| 7     | 18        | 42                 | 2.0        | 17        | 104                | 4.8        | 16        | 29                 | 1.3        |
| 8     | 17        | 37                 | 1.6        | 15        | 86                 | 3.5        | 16        | 32                 | 1.4        |
| 9     | 15        | 35                 | 1.4        | 17        | 72                 | 3.3        | 17        | 34                 | 1.6        |
| 10    | 14        | 34                 | 1.3        | 18        | 59                 | 2.9        | 16        | 30                 | 1.2        |
| 11    | 14        | 39                 | 1.5        | 15        | 48                 | 2.0        | 15        | 28                 | 1.2        |
| 12    | 14        | 45                 | 1.7        | 17        | 42                 | 1.9        | 15        | 28                 | 1.2        |
| 13    | 16        | 54                 | 2.4        | 19        | 43                 | 2.2        | 16        | 27                 | 1.2        |
| 14    | 15        | 66                 | 2.8        | 17        | 43                 | 2.0        | 17        | 29                 | 1.4        |
| 15    | 20        | 102                | 5.9        | 15        | 40                 | 1.6        | 17        | 33                 | 1.5        |
| 16    | 23        | 135                | 8.9        | 15        | 37                 | 1.5        | 20        | 35                 | 2.0        |
| 17    | 18        | 85                 | 4.3        | 18        | 122                | 9.2        | 18        | 34                 | 1.7        |
| 18    | 16        | 50                 | 2.1        | 20        | 223                | 14         | 16        | 32                 | 1.4        |
| 19    | 17        | 51                 | 2.4        | 15        | 58                 | 2.3        | 16        | 29                 | 1.2        |
| 20    | 14        | 57                 | 2.2        | 15        | 51                 | 2.1        | 16        | 27                 | 1.2        |
| 21    | 16        | 64                 | 2.7        | 15        | 50                 | 2.0        | 20        | 27                 | 1.4        |
| 22    | 16        | 67                 | 2.8        | 14        | 41                 | 1.6        | 16        | 28                 | 1.2        |
| 23    | 18        | 59                 | 2.9        | 14        | 38                 | 1.4        | 15        | 30                 | 1.2        |
| 24    | 16        | 51                 | 2.2        | 15        | 36                 | 1.5        | 15        | 29                 | 1.2        |
| 25    | 18        | 47                 | 2.3        | 15        | 38                 | 1.5        | 15        | 28                 | 1.1        |
| 26    | 16        | 58                 | 2.5        | 16        | 37                 | 1.6        | 15        | 33                 | 1.3        |
| 27    | 15        | 54                 | 2.2        | 16        | 38                 | 1.6        | 29        | 326                | 28         |
| 28    | 90        | 399                | 163        | 21        | 267                | 19         | 20        | 107                | 6.6        |
| 29    | 30        | 153                | 13         | 23        | 243                | 21         | 12        | 37                 | 1.2        |
| 30    | 19        | 102                | 5.1        | 121       | 574                | 289        | 12        | 36                 | 1.1        |
| 31    | 19        | 74                 | 3.8        | 30        | 147                | 12         | ---       | ---                | ---        |

07288280 BIG SUNFLOWER RIVER NEAR MERIGOLD, MS  
(National Water-Quality Assessment station)

LOCATION.--Lat 33°49'55", long 90°40'20", in NW1/4 sec.24, T.23 N., R.5 W., Choctaw Meridian, Bolivar County, Hydrologic Unit 03080207, County Code 011, at county road bridge 3.0 mi west of U.S. Highway 61 south of Merigold about 0.1 mi and about 89.6 mi upstream from the mouth.

DRAINAGE AREA.--553 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct. 1992 to current year.

GAGE.--Water stage recorder. Datum of gage is 100.00 ft above sea level.

REMARKS.--Estimated daily discharges: Nov. 5-22, Jan. 4-17. Records fair except for estimated daily discharges, which are poor. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT   | NOV  | DEC     | JAN   | FEB   | MAR   | APR   | MAY  | JUN   | JUL  | AUG   | SEP  |
|-------|-------|------|---------|-------|-------|-------|-------|------|-------|------|-------|------|
| 1     | 33    | 29   | 16      | 727   | 265   | 637   | 457   | 336  | 611   | 198  | 657   | 94   |
| 2     | 27    | 24   | 14      | 1510  | 184   | 424   | 324   | 141  | 1830  | 182  | 809   | 87   |
| 3     | 22    | 23   | 13      | 1640  | 105   | 200   | 261   | 98   | 2090  | 177  | 830   | 124  |
| 4     | 17    | 16   | 11      | e1400 | 137   | 110   | 202   | 74   | 1690  | 179  | 1010  | 100  |
| 5     | 12    | e14  | 10      | e1100 | 138   | 102   | 169   | 55   | 1030  | 165  | 1050  | 74   |
| 6     | 11    | e18  | 9.6     | e600  | 121   | 109   | 137   | 46   | 505   | 145  | 921   | 61   |
| 7     | 24    | e24  | 9.8     | e300  | 157   | 546   | 114   | 41   | 255   | 132  | 667   | 61   |
| 8     | 29    | e20  | 35      | e150  | 906   | 624   | 88    | 53   | 306   | 143  | 425   | 64   |
| 9     | 24    | e16  | 111     | e85   | 1620  | 556   | 71    | 263  | 441   | 163  | 288   | 68   |
| 10    | 17    | e19  | 92      | e70   | 1680  | 379   | 59    | 241  | 307   | 159  | 211   | 60   |
| 11    | 11    | e22  | 113     | e60   | 1420  | 193   | 47    | 183  | 223   | 164  | 184   | 57   |
| 12    | 10    | e27  | 83      | e50   | 928   | 117   | 38    | 250  | 198   | 163  | 214   | 59   |
| 13    | 8.8   | e23  | 59      | e45   | 489   | 98    | 46    | 281  | 333   | 173  | 278   | 62   |
| 14    | 25    | e19  | 47      | e42   | 248   | 88    | 48    | 199  | 987   | 186  | 245   | 62   |
| 15    | 35    | e16  | 89      | e40   | 156   | 97    | 62    | 116  | 1300  | 230  | 188   | 53   |
| 16    | 35    | e14  | 785     | e40   | 119   | 109   | 45    | 78   | 1390  | 287  | 155   | 54   |
| 17    | 35    | e13  | 899     | e65   | 94    | 93    | 44    | 60   | 1330  | 355  | 140   | 52   |
| 18    | 38    | e12  | 1790    | 94    | 73    | 94    | 46    | 50   | 1130  | 428  | 125   | 61   |
| 19    | 39    | e11  | 3250    | 464   | 112   | 371   | 36    | 43   | 959   | 347  | 123   | 51   |
| 20    | 41    | e11  | 3390    | 625   | 495   | 924   | 43    | 36   | 751   | 244  | 118   | 44   |
| 21    | 43    | e10  | 3140    | 551   | 399   | 929   | 1030  | 34   | 664   | 198  | 104   | 46   |
| 22    | 40    | e10  | 2680    | 378   | 277   | 605   | 2460  | 38   | 577   | 180  | 105   | 176  |
| 23    | 36    | 29   | 2050    | 282   | 195   | 310   | 3800  | 43   | 441   | 189  | 107   | 373  |
| 24    | 33    | 35   | 1280    | 1900  | 138   | 186   | 4130  | 54   | 345   | 183  | 113   | 263  |
| 25    | 30    | 32   | 560     | 2580  | 108   | 1650  | 3930  | 51   | 275   | 288  | 121   | 136  |
| 26    | 30    | 28   | 181     | 2610  | 92    | 2580  | 3510  | 128  | 251   | 569  | 124   | 74   |
| 27    | 49    | 24   | 95      | 2470  | 85    | 2610  | 2930  | 260  | 581   | 499  | 145   | 98   |
| 28    | 55    | 20   | 71      | 2120  | 152   | 2420  | 2250  | 171  | 481   | 639  | 162   | 698  |
| 29    | 49    | 18   | 61      | 1560  | 437   | 2040  | 1530  | 488  | 307   | 886  | 145   | 1080 |
| 30    | 51    | 18   | 48      | 881   | ---   | 1480  | 845   | 685  | 236   | 857  | 124   | 1040 |
| 31    | 40    | ---  | 146     | 464   | ---   | 852   | ---   | 669  | ---   | 658  | 112   | ---  |
| TOTAL | 949.8 | 595  | 21138.4 | 24903 | 11330 | 21533 | 28752 | 5265 | 21824 | 9366 | 10000 | 5332 |
| MEAN  | 30.6  | 19.8 | 682     | 803   | 391   | 695   | 958   | 170  | 727   | 302  | 323   | 178  |
| MAX   | 55    | 35   | 3390    | 2610  | 1680  | 2610  | 4130  | 685  | 2090  | 886  | 1050  | 1080 |
| MIN   | 8.8   | 10   | 9.6     | 40    | 73    | 88    | 36    | 34   | 198   | 132  | 104   | 44   |
| CFSM  | .06   | .04  | 1.28    | 1.51  | .73   | 1.30  | 1.80  | .32  | 1.36  | .57  | .61   | .33  |
| IN.   | .07   | .04  | 1.48    | 1.74  | .79   | 1.50  | 2.01  | .37  | 1.52  | .65  | .70   | .37  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1996, BY WATER YEAR (WY)

|      | MEAN | 56.3 | 295  | 934  | 1311 | 1245 | 1324 | 894  | 457  | 666  | 1029 | 432  | 138 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| MAX  | 80.5 | 737  | 1488 | 1705 | 3968 | 2421 | 1445 | 1112 | 1005 | 2201 | 803  | 204  |     |
| (WY) | 1995 | 1994 | 1994 | 1994 | 1994 | 1995 | 1993 | 1993 | 1994 | 1994 | 1993 | 1994 |     |
| MIN  | 30.6 | 19.8 | 682  | 803  | 269  | 220  | 277  | 170  | 439  | 302  | 206  | 52.8 |     |
| (WY) | 1996 | 1996 | 1996 | 1996 | 1993 | 1993 | 1994 | 1996 | 1995 | 1996 | 1995 | 1995 |     |

## SUMMARY STATISTICS

## FOR 1995 CALENDAR YEAR

## FOR 1996 WATER YEAR

## WATER YEARS 1993 - 1996

|                          |          |          |       |
|--------------------------|----------|----------|-------|
| ANNUAL TOTAL             | 252002.2 | 160988.2 |       |
| ANNUAL MEAN              | 690      | 440      | 731   |
| HIGHEST ANNUAL MEAN      |          |          | 1175  |
| LOWEST ANNUAL MEAN       |          |          | 440   |
| HIGHEST DAILY MEAN       | 5810     | 4130     | 6780  |
| LOWEST DAILY MEAN        | 8.8      | 8.8      | 8.8   |
| ANNUAL SEVEN-DAY MINIMUM | 12       | 12       | 12    |
| INSTANTANEOUS PEAK FLOW  |          | 4150     | 6800  |
| INSTANTANEOUS PEAK STAGE |          | 21.98    | 30.39 |
| INSTANTANEOUS LOW FLOW   |          | 7.8      | 6.8   |
| ANNUAL RUNOFF (CFSM)     | 1.30     | .83      | 1.37  |
| ANNUAL RUNOFF (INCHES)   | 17.59    | 11.24    | 18.63 |
| 10 PERCENT EXCEEDS       | 2750     | 1350     | 2450  |
| 50 PERCENT EXCEEDS       | 170      | 142      | 231   |
| 90 PERCENT EXCEEDS       | 23       | 24       | 38    |

e Estimated

07288280 BIG SUNFLOWER RIVER NEAR MERIGOLD, MS--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1995 to current year.

## WATER QUALITY DATA, MAY 1995 TO SEPTEMBER 1996

| DATE     | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|----------|------|-----------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| MAY 1995 |      |                                                                       |                                                              |                                                                      |                                                 |                                                |
| 18...    | 0740 | 77                                                                    | 293                                                          | 7.0                                                                  | 26.5                                            | 5.2                                            |
| JUN      |      |                                                                       |                                                              |                                                                      |                                                 |                                                |
| 20...    | 1400 | 166                                                                   | 448                                                          | 8.0                                                                  | 28.0                                            | 8.8                                            |
| AUG      |      |                                                                       |                                                              |                                                                      |                                                 |                                                |
| 08...    | 1640 | 264                                                                   | 515                                                          | 8.0                                                                  | 31.5                                            | 7.9                                            |
| FEB 1996 |      |                                                                       |                                                              |                                                                      |                                                 |                                                |
| 27...    | 1615 | 84                                                                    | 239                                                          | 7.5                                                                  | 18.0                                            | 8.1                                            |
| MAY      |      |                                                                       |                                                              |                                                                      |                                                 |                                                |
| 22...    | 1730 | 40                                                                    | 318                                                          | 7.6                                                                  | 29.5                                            | 6.2                                            |
| AUG      |      |                                                                       |                                                              |                                                                      |                                                 |                                                |
| 15...    | 1405 | 183                                                                   | 480                                                          | 7.9                                                                  | 28.0                                            | 10.8                                           |

## YAZOO RIVER BASIN

07288650 BOGUE PHALIA NEAR LELAND, MS  
(National Water-Quality Assessment station)

LOCATION.--Lat 33°23'47", long 90°50'47", in 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 Engineers' records.

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: Mar. 31 - Apr. 3, 9. Records fair 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 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC     | JAN   | FEB  | MAR   | APR   | MAY    | JUN   | JUL  | AUG   | SEP    |
|-------|-------|-------|---------|-------|------|-------|-------|--------|-------|------|-------|--------|
| 1     | 7.1   | 7.2   | 6.9     | 69    | 235  | 130   | e250  | 89     | 45    | 228  | 1450  | 196    |
| 2     | 7.1   | 7.6   | 6.8     | 1180  | 161  | 87    | e180  | 54     | 1020  | 203  | 1080  | 131    |
| 3     | 7.4   | 7.4   | 6.8     | 1590  | 140  | 62    | e140  | 35     | 1310  | 173  | 760   | 89     |
| 4     | 7.3   | 6.8   | 6.9     | 1030  | 139  | 36    | 89    | 23     | 1060  | 149  | 558   | 295    |
| 5     | 6.9   | 6.5   | 6.9     | 589   | 138  | 24    | 71    | 17     | 571   | 122  | 426   | 408    |
| 6     | 6.6   | 6.6   | 7.3     | 451   | 130  | 21    | 72    | 13     | 302   | 113  | 321   | 277    |
| 7     | 6.6   | 6.9   | 7.6     | 438   | 62   | 86    | 57    | 12     | 183   | 103  | 257   | 158    |
| 8     | 6.6   | 7.0   | 9.4     | 270   | 568  | 371   | 36    | 11     | 145   | 110  | 226   | 74     |
| 9     | 6.6   | 6.7   | 255     | 158   | 996  | 365   | e25   | 11     | 246   | 126  | 222   | 31     |
| 10    | 6.6   | 6.6   | 437     | 100   | 948  | 225   | 16    | 11     | 479   | 136  | 194   | 16     |
| 11    | 6.6   | 7.6   | 278     | 74    | 697  | 122   | 14    | 17     | 444   | 152  | 174   | 13     |
| 12    | 6.6   | 7.4   | 139     | 199   | 456  | 66    | 11    | 133    | 328   | 162  | 265   | 11     |
| 13    | 6.6   | 7.2   | 68      | 304   | 312  | 32    | 24    | 205    | 254   | 150  | 395   | 8.5    |
| 14    | 6.6   | 6.9   | 33      | 235   | 203  | 18    | 31    | 158    | 247   | 162  | 479   | 7.2    |
| 15    | 6.4   | 6.5   | 17      | 159   | 132  | 15    | 423   | 96     | 252   | 226  | 444   | 6.8    |
| 16    | 6.4   | 6.5   | 234     | 100   | 98   | 23    | 376   | 47     | 238   | 309  | 367   | 7.8    |
| 17    | 6.4   | 6.4   | 1360    | 62    | 76   | 22    | 184   | 19     | 201   | 523  | 288   | 8.2    |
| 18    | 6.4   | 6.4   | 2240    | 48    | 46   | 19    | 86    | 13     | 176   | 682  | 213   | 7.3    |
| 19    | 6.4   | 6.3   | 4250    | 157   | 30   | 161   | 41    | 10     | 559   | 579  | 144   | 6.8    |
| 20    | 6.5   | 6.3   | 4630    | 248   | 25   | 196   | 304   | 9.2    | 429   | 416  | 105   | 6.7    |
| 21    | 6.6   | 6.4   | 3510    | 180   | 264  | 204   | 882   | 8.8    | 295   | 299  | 88    | 7.0    |
| 22    | 6.5   | 6.3   | 2120    | 128   | 411  | 166   | 3620  | 9.3    | 236   | 298  | 80    | 6.8    |
| 23    | 6.5   | 6.4   | 1080    | 99    | 336  | 105   | 7480  | 10     | 202   | 282  | 80    | 6.7    |
| 24    | 6.6   | 6.7   | 540     | 665   | 248  | 60    | 7310  | 11     | 167   | 271  | 82    | 6.6    |
| 25    | 6.5   | 6.5   | 315     | 1870  | 158  | 1200  | 5130  | 11     | 140   | 328  | 83    | 6.5    |
| 26    | 6.5   | 6.7   | 188     | 1710  | 85   | 2530  | 2860  | 11     | 128   | 464  | 75    | 6.4    |
| 27    | 6.9   | 7.6   | 107     | 1270  | 47   | 2060  | 1490  | 11     | 188   | 555  | 76    | 186    |
| 28    | 7.3   | 7.8   | 60      | 842   | 100  | 1240  | 708   | 30     | 315   | 489  | 214   | 1340   |
| 29    | 6.8   | 7.1   | 35      | 509   | 180  | 703   | 349   | 54     | 309   | 414  | 381   | 1840   |
| 30    | 7.3   | 6.9   | 21      | 355   | ---  | 415   | 174   | 37     | 260   | 362  | 351   | 1420   |
| 31    | 7.5   | ---   | 20      | 358   | ---  | e200  | ---   | 31     | ---   | 590  | 274   | ---    |
| TOTAL | 208.7 | 205.2 | 21995.6 | 15447 | 7421 | 10964 | 32433 | 1207.3 | 10729 | 9176 | 10152 | 6584.3 |
| MEAN  | 6.73  | 6.84  | 710     | 498   | 256  | 354   | 1081  | 38.9   | 358   | 296  | 327   | 219    |
| MAX   | 7.5   | 7.8   | 4630    | 1870  | 996  | 2530  | 7480  | 205    | 1310  | 682  | 1450  | 1840   |
| MIN   | 6.4   | 6.3   | 6.8     | 48    | 25   | 15    | 11    | 8.8    | 45    | 103  | 75    | 6.4    |
| CFSM  | .01   | .01   | 1.47    | 1.03  | .53  | .73   | 2.23  | .08    | .74   | .61  | .68   | .45    |
| IN.   | .02   | .02   | 1.69    | 1.19  | .57  | .84   | 2.49  | .09    | .82   | .71  | .78   | .51    |

WTR YR 1996 TOTAL 126523.1 MEAN 346 MAX 7480 MIN 6.3 CFSM .71 IN. 9.72

## SUMMARY STATISTICS

## FOR 1996 WATER YEAR

|                          |          |
|--------------------------|----------|
| ANNUAL TOTAL             | 126523.1 |
| ANNUAL MEAN              | 346      |
| HIGHEST DAILY MEAN       | 7480     |
| LOWEST DAILY MEAN        | 6.3      |
| ANNUAL SEVEN-DAY MINIMUM | 6.4      |
| INSTANTANEOUS PEAK FLOW  | 7860     |
| INSTANTANEOUS PEAK STAGE | 24.01    |
| INSTANTANEOUS LOW FLOW   | 6.1      |
| ANNUAL RUNOFF (CFSM)     | .71      |
| ANNUAL RUNOFF (INCHES)   | 9.72     |
| 10 PERCENT EXCEEDS       | 724      |
| 50 PERCENT EXCEEDS       | 124      |
| 90 PERCENT EXCEEDS       | 6.6      |

e Estimated

07288650 BOGUE PHALIA NEAR LELAND, MS--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1995 to current year.

## WATER QUALITY DATA, JUNE 1995 TO SEPTEMBER 1996

| DATE     | TIME | DEPTH<br>AT<br>SAMPLE<br>LOC-<br>ATION,<br>TOTAL<br>(FEET)<br>(81903) | SAMPLE<br>LOC-<br>ATION,<br>CROSS<br>SECTION<br>(FT FM<br>L BANK)<br>(00009) | SAMPLE<br>LOC-<br>ATION,<br>CROSS<br>SECTION<br>(FT FM<br>R BK)<br>(72103) | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L)<br>(80154) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM<br>(70331) |
|----------|------|-----------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------------|
| JUN 1995 |      |                                                                       |                                                                              |                                                                            |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                       |                                                                          |
| 27...    | 1530 | --                                                                    | --                                                                           | --                                                                         | 292                                                                   | 515                                                          | 8.1                                                                  | 30.0                                            | 9.3                                            | --                                                    | --                                                                       |
| AUG      |      |                                                                       |                                                                              |                                                                            |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                       |                                                                          |
| 22...    | 1400 | --                                                                    | --                                                                           | --                                                                         | 158                                                                   | 635                                                          | 7.9                                                                  | 31.0                                            | 5.2                                            | --                                                    | --                                                                       |
| JAN 1996 |      |                                                                       |                                                                              |                                                                            |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                       |                                                                          |
| 23...    | 1442 | 1.00                                                                  | 160                                                                          | --                                                                         | --                                                                    | 205                                                          | 7.2                                                                  | 9.5                                             | 11.4                                           | --                                                    | --                                                                       |
| 23...    | 1444 | 1.00                                                                  | 140                                                                          | --                                                                         | --                                                                    | 205                                                          | 7.3                                                                  | 9.5                                             | 11.5                                           | --                                                    | --                                                                       |
| 23...    | 1446 | 1.00                                                                  | 120                                                                          | --                                                                         | --                                                                    | 205                                                          | 7.4                                                                  | 9.5                                             | 11.2                                           | --                                                    | --                                                                       |
| 23...    | 1448 | 1.00                                                                  | 100                                                                          | --                                                                         | --                                                                    | 205                                                          | 7.4                                                                  | 9.5                                             | 11.2                                           | --                                                    | --                                                                       |
| 23...    | 1449 | 1.00                                                                  | 80.0                                                                         | --                                                                         | --                                                                    | 205                                                          | 7.4                                                                  | 9.5                                             | 11.4                                           | --                                                    | --                                                                       |
| 23...    | 1450 | 1.00                                                                  | 60.0                                                                         | --                                                                         | --                                                                    | 206                                                          | 7.4                                                                  | 10.0                                            | 11.4                                           | --                                                    | --                                                                       |
| 23...    | 1520 | --                                                                    | 160                                                                          | --                                                                         | 95                                                                    | 205                                                          | 7.4                                                                  | 7.5                                             | 11.4                                           | 564                                                   | 95                                                                       |
| FEB      |      |                                                                       |                                                                              |                                                                            |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                       |                                                                          |
| 16...    | 1145 | --                                                                    | --                                                                           | --                                                                         | 96                                                                    | 198                                                          | 7.4                                                                  | 9.0                                             | 10.1                                           | 225                                                   | 97                                                                       |
| 29...    | 1415 | 1.00                                                                  | --                                                                           | --                                                                         | 185                                                                   | 206                                                          | 7.6                                                                  | 10.0                                            | 9.3                                            | 628                                                   | 100                                                                      |
| MAR      |      |                                                                       |                                                                              |                                                                            |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                       |                                                                          |
| 21...    | 1300 | --                                                                    | --                                                                           | --                                                                         | 207                                                                   | 173                                                          | 7.2                                                                  | 10.5                                            | 10.3                                           | 435                                                   | 100                                                                      |
| APR      |      |                                                                       |                                                                              |                                                                            |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                       |                                                                          |
| 04...    | 1115 | --                                                                    | --                                                                           | --                                                                         | 86                                                                    | 151                                                          | 6.8                                                                  | 17.5                                            | 7.9                                            | 559                                                   | 97                                                                       |
| 18...    | 1215 | --                                                                    | --                                                                           | --                                                                         | 84                                                                    | 161                                                          | 7.2                                                                  | 18.0                                            | 7.0                                            | --                                                    | --                                                                       |
| 24...    | 1320 | --                                                                    | --                                                                           | --                                                                         | 7320                                                                  | 72                                                           | 6.4                                                                  | 20.0                                            | 5.3                                            | 553                                                   | 99                                                                       |
| MAY      |      |                                                                       |                                                                              |                                                                            |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                       |                                                                          |
| 09...    | 1230 | --                                                                    | --                                                                           | --                                                                         | 11                                                                    | 428                                                          | 7.6                                                                  | 25.5                                            | 9.2                                            | 91                                                    | 93                                                                       |
| 15...    | 1000 | --                                                                    | --                                                                           | --                                                                         | 101                                                                   | 292                                                          | 7.2                                                                  | 24.5                                            | 6.3                                            | --                                                    | --                                                                       |
| 21...    | 0930 | --                                                                    | --                                                                           | --                                                                         | 8.8                                                                   | 443                                                          | 7.5                                                                  | 26.5                                            | 6.0                                            | 116                                                   | 96                                                                       |
| JUN      |      |                                                                       |                                                                              |                                                                            |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                       |                                                                          |
| 03...    | 1140 | 0.50                                                                  | --                                                                           | 50.0                                                                       | --                                                                    | 254                                                          | 6.3                                                                  | 25.0                                            | 4.3                                            | --                                                    | --                                                                       |
| 03...    | 1141 | 4.00                                                                  | --                                                                           | 50.0                                                                       | --                                                                    | 254                                                          | 6.8                                                                  | 25.0                                            | 4.3                                            | --                                                    | --                                                                       |
| 03...    | 1142 | 0.50                                                                  | --                                                                           | 65.0                                                                       | --                                                                    | 254                                                          | 6.8                                                                  | 25.0                                            | 4.2                                            | --                                                    | --                                                                       |
| 03...    | 1143 | 7.00                                                                  | --                                                                           | 65.0                                                                       | --                                                                    | 254                                                          | 6.8                                                                  | 25.0                                            | 4.2                                            | --                                                    | --                                                                       |
| 03...    | 1144 | 0.50                                                                  | --                                                                           | 80.0                                                                       | --                                                                    | 254                                                          | 6.8                                                                  | 25.0                                            | 4.3                                            | --                                                    | --                                                                       |
| 03...    | 1145 | 8.00                                                                  | --                                                                           | 80.0                                                                       | --                                                                    | 254                                                          | 6.8                                                                  | 25.0                                            | 4.2                                            | --                                                    | --                                                                       |
| 03...    | 1146 | 0.50                                                                  | --                                                                           | 100.0                                                                      | --                                                                    | 242                                                          | 6.9                                                                  | 25.0                                            | 4.3                                            | --                                                    | --                                                                       |
| 03...    | 1147 | 11.0                                                                  | --                                                                           | 100.0                                                                      | --                                                                    | 242                                                          | 6.9                                                                  | 25.0                                            | 4.2                                            | --                                                    | --                                                                       |
| 03...    | 1148 | 0.50                                                                  | --                                                                           | 130.0                                                                      | --                                                                    | 254                                                          | 6.9                                                                  | 25.0                                            | 4.3                                            | --                                                    | --                                                                       |
| 03...    | 1149 | 11.0                                                                  | --                                                                           | 130.0                                                                      | --                                                                    | 253                                                          | 6.9                                                                  | 25.0                                            | 4.2                                            | --                                                    | --                                                                       |
| 03...    | 1150 | 0.50                                                                  | --                                                                           | 150.0                                                                      | --                                                                    | 253                                                          | 6.9                                                                  | 25.0                                            | 4.2                                            | --                                                    | --                                                                       |
| 03...    | 1152 | 8.00                                                                  | --                                                                           | 150.0                                                                      | --                                                                    | 253                                                          | 6.9                                                                  | 25.0                                            | 4.2                                            | --                                                    | --                                                                       |
| 03...    | 1155 | 0.50                                                                  | --                                                                           | 170.0                                                                      | --                                                                    | 253                                                          | 6.9                                                                  | 25.0                                            | 4.2                                            | --                                                    | --                                                                       |
| 03...    | 1200 | --                                                                    | --                                                                           | --                                                                         | 1340                                                                  | 254                                                          | 6.9                                                                  | 25.0                                            | 4.2                                            | 473                                                   | 98                                                                       |
| 03...    | 1210 | 7.00                                                                  | --                                                                           | 170.0                                                                      | --                                                                    | 253                                                          | 6.9                                                                  | 25.0                                            | 4.2                                            | --                                                    | --                                                                       |
| 09...    | 0830 | --                                                                    | --                                                                           | --                                                                         | 200                                                                   | 446                                                          | 7.8                                                                  | 27.0                                            | 7.2                                            | --                                                    | --                                                                       |
| 09...    | 1500 | --                                                                    | --                                                                           | --                                                                         | 263                                                                   | 456                                                          | 8.0                                                                  | 28.5                                            | 6.9                                            | --                                                    | --                                                                       |
| 18...    | 1415 | 0.0                                                                   | --                                                                           | 60.0                                                                       | --                                                                    | 472                                                          | 8.2                                                                  | 32.0                                            | 8.8                                            | --                                                    | --                                                                       |
| 18...    | 1417 | 0.50                                                                  | --                                                                           | 90.0                                                                       | --                                                                    | 469                                                          | 8.1                                                                  | 32.0                                            | 8.1                                            | --                                                    | --                                                                       |
| 18...    | 1423 | 1417.0                                                                | --                                                                           | 60.0                                                                       | --                                                                    | 469                                                          | 8.2                                                                  | 32.0                                            | 8.8                                            | --                                                    | --                                                                       |
| 18...    | 1425 | 4.00                                                                  | --                                                                           | 90.0                                                                       | --                                                                    | 470                                                          | 8.1                                                                  | 31.5                                            | 8.1                                            | --                                                    | --                                                                       |
| 18...    | 1427 | 0.50                                                                  | --                                                                           | 120.0                                                                      | --                                                                    | 470                                                          | 8.1                                                                  | 32.0                                            | 8.5                                            | --                                                    | --                                                                       |
| 18...    | 1430 | 4.00                                                                  | --                                                                           | 120.0                                                                      | --                                                                    | 471                                                          | 8.1                                                                  | 31.5                                            | 7.6                                            | --                                                    | --                                                                       |
| 18...    | 1432 | 0.50                                                                  | --                                                                           | 150.0                                                                      | --                                                                    | 467                                                          | 8.3                                                                  | 32.5                                            | 9.1                                            | --                                                    | --                                                                       |
| 18...    | 1433 | 3.00                                                                  | --                                                                           | 150.0                                                                      | --                                                                    | 472                                                          | 8.0                                                                  | 31.5                                            | 7.4                                            | --                                                    | --                                                                       |
| 18...    | 1434 | 0.50                                                                  | --                                                                           | 170.0                                                                      | --                                                                    | 465                                                          | 8.3                                                                  | 32.5                                            | 9.9                                            | --                                                    | --                                                                       |
| 18...    | 1436 | 2.00                                                                  | --                                                                           | 170.0                                                                      | --                                                                    | 471                                                          | 8.1                                                                  | 31.5                                            | 7.9                                            | --                                                    | --                                                                       |
| 18...    | 1500 | --                                                                    | --                                                                           | --                                                                         | 163                                                                   | 470                                                          | 8.2                                                                  | 31.5                                            | 8.5                                            | 142                                                   | 96                                                                       |
| 19...    | 1100 | --                                                                    | --                                                                           | --                                                                         | 624                                                                   | 216                                                          | 6.9                                                                  | 26.0                                            | 4.1                                            | --                                                    | --                                                                       |
| JUL 1996 |      |                                                                       |                                                                              |                                                                            |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                       |                                                                          |
| 03...    | 1159 | 0.50                                                                  | --                                                                           | 50.0                                                                       | --                                                                    | 514                                                          | 8.0                                                                  | 33.0                                            | 7.7                                            | --                                                    | --                                                                       |
| 03...    | 1204 | 0.50                                                                  | --                                                                           | 80.0                                                                       | --                                                                    | 516                                                          | 7.9                                                                  | 33.0                                            | 8.0                                            | --                                                    | --                                                                       |
| 03...    | 1210 | 0.50                                                                  | --                                                                           | 110.0                                                                      | --                                                                    | 508                                                          | 8.0                                                                  | 33.0                                            | 8.1                                            | --                                                    | --                                                                       |
| 03...    | 1216 | 0.50                                                                  | --                                                                           | 140.0                                                                      | --                                                                    | 516                                                          | 8.0                                                                  | 33.0                                            | 7.9                                            | --                                                    | --                                                                       |
| 03...    | 1223 | 0.50                                                                  | --                                                                           | 170.0                                                                      | --                                                                    | 518                                                          | 8.0                                                                  | 32.5                                            | 7.4                                            | --                                                    | --                                                                       |
| 03...    | 1300 | --                                                                    | --                                                                           | --                                                                         | 173                                                                   | 508                                                          | 8.0                                                                  | 33.0                                            | 8.1                                            | --                                                    | --                                                                       |
| 18...    | 1045 | --                                                                    | --                                                                           | --                                                                         | 695                                                                   | 491                                                          | 7.5                                                                  | 29.5                                            | 4.3                                            | 103                                                   | 99                                                                       |
| 18...    | 1048 | 0.50                                                                  | --                                                                           | 50.0                                                                       | --                                                                    | 492                                                          | 7.5                                                                  | 29.0                                            | 4.8                                            | --                                                    | --                                                                       |
| 18...    | 1050 | 0.50                                                                  | 80.0                                                                         | 80.0                                                                       | --                                                                    | 491                                                          | 7.5                                                                  | 29.0                                            | 5.2                                            | --                                                    | --                                                                       |
| 18...    | 1051 | 0.50                                                                  | --                                                                           | 110.0                                                                      | --                                                                    | 491                                                          | 7.5                                                                  | 29.0                                            | 4.3                                            | --                                                    | --                                                                       |
| 18...    | 1052 | 0.50                                                                  | --                                                                           | 140.0                                                                      | --                                                                    | 491                                                          | 7.5                                                                  | 29.0                                            | 4.4                                            | --                                                    | --                                                                       |
| 18...    | 1055 | 0.50                                                                  | --                                                                           | 170.0                                                                      | --                                                                    | 491                                                          | 7.5                                                                  | 29.0                                            | 4.3                                            | --                                                    | --                                                                       |
| 18...    | 1058 | 0.60                                                                  | --                                                                           | 130.0                                                                      | --                                                                    | 491                                                          | 7.5                                                                  | 29.0                                            | 4.6                                            | --                                                    | --                                                                       |
| 29...    | 1145 | --                                                                    | --                                                                           | --                                                                         | 411                                                                   | 501                                                          | 7.7                                                                  | 28.5                                            | 6.1                                            | 90                                                    | 99                                                                       |
| 29...    | 1154 | 1.50                                                                  | --                                                                           | 40.0                                                                       | --                                                                    | 500                                                          | 7.6                                                                  | 28.5                                            | 5.9                                            | --                                                    | --                                                                       |
| 29...    | 1156 | 0.50                                                                  | --                                                                           | 40.0                                                                       | --                                                                    | 500                                                          | 7.6                                                                  | 28.5                                            | 6.0                                            | --                                                    | --                                                                       |
| 29...    | 1158 | 0.50                                                                  | --                                                                           | 55.0                                                                       | --                                                                    | 500                                                          | 7.7                                                                  | 28.5                                            | 5.6                                            | --                                                    | --                                                                       |
| 29...    | 1159 | 3.00                                                                  | --                                                                           | 55.0                                                                       | --                                                                    | 501                                                          | 7.7                                                                  | 28.5                                            | 5.4                                            | --                                                    | --                                                                       |
| 29...    | 1200 | 0.50                                                                  | --                                                                           | 70.0                                                                       | --                                                                    | 501                                                          | 7.7                                                                  | 28.5                                            | 5.4                                            | --                                                    | --                                                                       |
| 29...    | 1205 | 3.00                                                                  | --                                                                           | 70.0                                                                       | --                                                                    | 501                                                          | 7.7                                                                  | 28.5                                            | 5.3                                            | --                                                    | --                                                                       |
| 29...    | 1207 | 0.50                                                                  | --                                                                           | 85.0                                                                       | --                                                                    | 501                                                          | 7.7                                                                  | 28.5                                            | 6.1                                            | --                                                    | --                                                                       |
| 29...    | 1210 | 4.00                                                                  | --                                                                           | 85.0                                                                       | --                                                                    | 502                                                          | 7.7                                                                  | 28.5                                            | 6.1                                            | --                                                    | --                                                                       |



07288650 BOGUE PHALIA NEAR LELAND, MS--Continued

## WATER QUALITY DATA, JUNE 1995 TO SEPTEMBER 1996

| DATE     | TIME | DEPTH<br>AT<br>SAMPLE<br>LOC-<br>TION,<br>TOTAL<br>(FEET)<br>(81903) | SAMPLE<br>LOC-<br>TION,<br>CROSS<br>SECTION<br>(FT FM<br>L BANK)<br>(00009) | SAMPLE<br>LOC-<br>TION,<br>CROSS<br>SECTION<br>(FT FM<br>R BK)<br>(72103) | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L)<br>(80154) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM<br>(70331) |
|----------|------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------------|
| JUL 1996 |      |                                                                      |                                                                             |                                                                           |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                       |                                                                          |
| 29...    | 1213 | 0.50                                                                 | --                                                                          | 100.0                                                                     | --                                                                    | 502                                                          | 7.7                                                                  | 29.0                                            | 5.4                                            | --                                                    | --                                                                       |
| 29...    | 1215 | 5.00                                                                 | --                                                                          | 100.0                                                                     | --                                                                    | 502                                                          | 7.7                                                                  | 28.5                                            | 5.3                                            | --                                                    | --                                                                       |
| 29...    | 1218 | 0.50                                                                 | --                                                                          | 115.0                                                                     | --                                                                    | 501                                                          | 7.7                                                                  | 29.0                                            | 5.8                                            | --                                                    | --                                                                       |
| 29...    | 1220 | 5.00                                                                 | --                                                                          | 115.0                                                                     | --                                                                    | 502                                                          | 7.7                                                                  | 28.5                                            | 6.0                                            | --                                                    | --                                                                       |
| 29...    | 1225 | 0.50                                                                 | --                                                                          | 130.0                                                                     | --                                                                    | 502                                                          | 7.7                                                                  | 28.5                                            | 5.3                                            | --                                                    | --                                                                       |
| 29...    | 1228 | 6.00                                                                 | --                                                                          | 130.0                                                                     | --                                                                    | 502                                                          | 7.7                                                                  | 28.5                                            | 5.3                                            | --                                                    | --                                                                       |
| 29...    | 1230 | 0.50                                                                 | --                                                                          | 145.0                                                                     | --                                                                    | 502                                                          | 7.7                                                                  | 28.5                                            | 5.3                                            | --                                                    | --                                                                       |
| 29...    | 1232 | 4.00                                                                 | --                                                                          | 145.0                                                                     | --                                                                    | 502                                                          | 7.7                                                                  | 28.5                                            | 5.2                                            | --                                                    | --                                                                       |
| 29...    | 1234 | 2.00                                                                 | --                                                                          | 160.0                                                                     | --                                                                    | 502                                                          | 7.7                                                                  | 28.5                                            | 5.1                                            | --                                                    | --                                                                       |
| 29...    | 1236 | 2.00                                                                 | --                                                                          | 160.0                                                                     | --                                                                    | 502                                                          | 7.7                                                                  | 28.5                                            | 5.1                                            | --                                                    | --                                                                       |
| AUG      |      |                                                                      |                                                                             |                                                                           |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                       |                                                                          |
| 13...    | 1130 | --                                                                   | --                                                                          | --                                                                        | 398                                                                   | 568                                                          | 7.9                                                                  | 25.5                                            | 6.2                                            | 102                                                   | 86                                                                       |
| 29...    | 1023 | 1.00                                                                 | --                                                                          | 120.0                                                                     | --                                                                    | 594                                                          | 7.7                                                                  | 27.0                                            | 6.1                                            | --                                                    | --                                                                       |
| 29...    | 1025 | 7.00                                                                 | --                                                                          | 120.0                                                                     | --                                                                    | 592                                                          | 7.7                                                                  | 27.0                                            | 6.0                                            | --                                                    | --                                                                       |
| 29...    | 1029 | 1.00                                                                 | --                                                                          | 80.0                                                                      | --                                                                    | 594                                                          | 7.8                                                                  | 27.0                                            | 6.1                                            | --                                                    | --                                                                       |
| 29...    | 1031 | 4.00                                                                 | --                                                                          | 80.0                                                                      | --                                                                    | 594                                                          | 7.8                                                                  | 27.0                                            | 6.1                                            | --                                                    | --                                                                       |
| 29...    | 1035 | 1.00                                                                 | --                                                                          | 160.0                                                                     | --                                                                    | 594                                                          | 7.8                                                                  | 27.0                                            | 6.5                                            | --                                                    | --                                                                       |
| 29...    | 1036 | 5.00                                                                 | --                                                                          | 160.0                                                                     | --                                                                    | 594                                                          | 7.8                                                                  | 27.5                                            | 6.5                                            | --                                                    | --                                                                       |
| 29...    | 1100 | --                                                                   | --                                                                          | --                                                                        | 391                                                                   | 594                                                          | 7.8                                                                  | 27.0                                            | 6.1                                            | 112                                                   | 93                                                                       |
| SEP      |      |                                                                      |                                                                             |                                                                           |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                       |                                                                          |
| 05...    | 1100 | --                                                                   | --                                                                          | --                                                                        | 421                                                                   | 420                                                          | 7.6                                                                  | 26.5                                            | 6.5                                            | --                                                    | --                                                                       |
| 05...    | 1610 | --                                                                   | --                                                                          | --                                                                        | 397                                                                   | 418                                                          | 7.9                                                                  | 27.0                                            | 6.7                                            | --                                                    | --                                                                       |
| 09...    | 1446 | 1.51                                                                 | --                                                                          | 120.0                                                                     | --                                                                    | 516                                                          | 7.8                                                                  | 30.5                                            | 7.2                                            | --                                                    | --                                                                       |
| 09...    | 1452 | 3.80                                                                 | --                                                                          | 120.0                                                                     | --                                                                    | 518                                                          | 7.6                                                                  | 28.5                                            | 5.2                                            | --                                                    | --                                                                       |
| 09...    | 1500 | --                                                                   | --                                                                          | --                                                                        | 27                                                                    | 517                                                          | 7.7                                                                  | 30.5                                            | 7.2                                            | 88                                                    | 92                                                                       |
| 16...    | 1145 | 1.50                                                                 | --                                                                          | 125.0                                                                     | --                                                                    | 644                                                          | 7.5                                                                  | 24.5                                            | 5.0                                            | --                                                    | --                                                                       |
| 16...    | 1146 | 0.50                                                                 | --                                                                          | 125.0                                                                     | --                                                                    | 646                                                          | 7.5                                                                  | 24.5                                            | 4.9                                            | --                                                    | --                                                                       |
| 16...    | 1147 | 2.70                                                                 | --                                                                          | 125.0                                                                     | --                                                                    | 643                                                          | 7.6                                                                  | 26.5                                            | 6.3                                            | --                                                    | --                                                                       |
| 16...    | 1148 | 0.50                                                                 | --                                                                          | 150.0                                                                     | --                                                                    | 635                                                          | 7.6                                                                  | 26.5                                            | 6.0                                            | --                                                    | --                                                                       |
| 16...    | 1150 | 2.00                                                                 | --                                                                          | 150.0                                                                     | --                                                                    | 647                                                          | 7.5                                                                  | 24.5                                            | 5.3                                            | --                                                    | --                                                                       |
| 16...    | 1153 | 0.50                                                                 | --                                                                          | 80.0                                                                      | --                                                                    | 643                                                          | 7.6                                                                  | 26.0                                            | 6.3                                            | --                                                    | --                                                                       |
| 16...    | 1154 | 7.60                                                                 | --                                                                          | 80.0                                                                      | --                                                                    | 643                                                          | 7.6                                                                  | 25.5                                            | 6.0                                            | --                                                    | --                                                                       |
| 16...    | 1200 | --                                                                   | --                                                                          | --                                                                        | 8.1                                                                   | 646                                                          | 7.5                                                                  | 26.5                                            | 6.3                                            | 85                                                    | 76                                                                       |

| DATE     | TIME | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML)<br>(31625) | E. COLI<br>WATER<br>WHOLE<br>TOTAL<br>UREASE<br>(COL /<br>100 ML)<br>(31633) | 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) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA)<br>(00930) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K)<br>(00935) | BICAR-<br>BONATE<br>WATER<br>DIS IT<br>FIELD<br>MG/L AS<br>HCO3<br>(00453) | ALKA-<br>LINITY<br>WAT DIS<br>TOT IT<br>FIELD<br>MG/L AS<br>CACO3<br>(39086) |
|----------|------|---------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------|
| FEB 1996 |      |                                                                           |                                                                              |                                                         |                                                                 |                                                         |                                                                |                                                                            |                                                                              |
| 16...    | 1145 | 120                                                                       | 120                                                                          | 18                                                      | 5.7                                                             | 10                                                      | 3.5                                                            | 80                                                                         | 65                                                                           |
| 29...    | 1415 | 800                                                                       | 760                                                                          | 19                                                      | 6.1                                                             | 11                                                      | 3.8                                                            | 101                                                                        | 83                                                                           |
| MAR      |      |                                                                           |                                                                              |                                                         |                                                                 |                                                         |                                                                |                                                                            |                                                                              |
| 21...    | 1300 | 1100                                                                      | E5000                                                                        | 18                                                      | 5.5                                                             | 7.3                                                     | 3.5                                                            | 74                                                                         | 61                                                                           |
| APR      |      |                                                                           |                                                                              |                                                         |                                                                 |                                                         |                                                                |                                                                            |                                                                              |
| 04...    | 1115 | 230                                                                       | K140                                                                         | 15                                                      | 4.5                                                             | 5.2                                                     | 3.0                                                            | 66                                                                         | 54                                                                           |
| 18...    | 1215 | --                                                                        | --                                                                           | 17                                                      | 5.1                                                             | 5.6                                                     | 2.8                                                            | 66                                                                         | 54                                                                           |
| 24...    | 1320 | --                                                                        | --                                                                           | 6.9                                                     | 2.0                                                             | 3.1                                                     | 2.7                                                            | 25                                                                         | 21                                                                           |
| MAY      |      |                                                                           |                                                                              |                                                         |                                                                 |                                                         |                                                                |                                                                            |                                                                              |
| 09...    | 1230 | --                                                                        | --                                                                           | 56                                                      | 15                                                              | 10                                                      | 2.9                                                            | 227                                                                        | 186                                                                          |
| 21...    | 0930 | --                                                                        | --                                                                           | 55                                                      | 15                                                              | 12                                                      | 3.2                                                            | 220                                                                        | 180                                                                          |
| JUN      |      |                                                                           |                                                                              |                                                         |                                                                 |                                                         |                                                                |                                                                            |                                                                              |
| 03...    | 1200 | --                                                                        | --                                                                           | 24                                                      | 7.7                                                             | 12                                                      | 3.8                                                            | 54                                                                         | 44                                                                           |
| 18...    | 1500 | --                                                                        | --                                                                           | 50                                                      | 18                                                              | 22                                                      | 4.5                                                            | 204                                                                        | 167                                                                          |
| JUL      |      |                                                                           |                                                                              |                                                         |                                                                 |                                                         |                                                                |                                                                            |                                                                              |
| 03...    | 1300 | --                                                                        | --                                                                           | 50                                                      | 20                                                              | 23                                                      | 3.9                                                            | 222                                                                        | 182                                                                          |
| 18...    | 1045 | --                                                                        | --                                                                           | 52                                                      | 19                                                              | 19                                                      | 3.9                                                            | 223                                                                        | 183                                                                          |
| 29...    | 1145 | --                                                                        | --                                                                           | 58                                                      | 20                                                              | 18                                                      | 3.5                                                            | 249                                                                        | 204                                                                          |
| AUG      |      |                                                                           |                                                                              |                                                         |                                                                 |                                                         |                                                                |                                                                            |                                                                              |
| 13...    | 1130 | --                                                                        | --                                                                           | 61                                                      | 21                                                              | 22                                                      | 5.6                                                            | --                                                                         | --                                                                           |
| 29...    | 1100 | --                                                                        | --                                                                           | 62                                                      | 23                                                              | 22                                                      | 1.6                                                            | 268                                                                        | 220                                                                          |
| SEP      |      |                                                                           |                                                                              |                                                         |                                                                 |                                                         |                                                                |                                                                            |                                                                              |
| 09...    | 1500 | --                                                                        | --                                                                           | 59                                                      | 19                                                              | 17                                                      | 7.3                                                            | 254                                                                        | 208                                                                          |
| 16...    | 1200 | --                                                                        | --                                                                           | 79                                                      | 25                                                              | 18                                                      | 5.0                                                            | 334                                                                        | 274                                                                          |

07288650 BOGUE PHALIA NEAR LELAND, MS--Continued

WATER QUALITY DATA, JUNE 1995 TO SEPTEMBER 1996

| DATE     | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4)<br>(00945) | 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) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SIO2)<br>(00955) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | 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) |
|----------|----------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| FEB 1996 |                                                          |                                                                |                                                               |                                                              |                                                                               |                                                                          |                                                                          |                                                                          |                                                                               |
| 16...    | 15                                                       | 7.9                                                            | 0.20                                                          | 7.5                                                          | 125                                                                           | 0.020                                                                    | 1.00                                                                     | 0.100                                                                    | 1.3                                                                           |
| 29...    | 11                                                       | 5.8                                                            | 0.20                                                          | 5.2                                                          | 136                                                                           | 0.020                                                                    | 0.740                                                                    | 0.080                                                                    | 2.0                                                                           |
| MAR      |                                                          |                                                                |                                                               |                                                              |                                                                               |                                                                          |                                                                          |                                                                          |                                                                               |
| 21...    | 10                                                       | 4.4                                                            | 0.20                                                          | 7.5                                                          | 111                                                                           | 0.050                                                                    | 1.50                                                                     | 0.170                                                                    | 1.5                                                                           |
| APR      |                                                          |                                                                |                                                               |                                                              |                                                                               |                                                                          |                                                                          |                                                                          |                                                                               |
| 04...    | 12                                                       | 3.4                                                            | 0.20                                                          | 6.9                                                          | 88                                                                            | 0.020                                                                    | 1.20                                                                     | 0.110                                                                    | 1.6                                                                           |
| 18...    | 12                                                       | 2.7                                                            | 0.20                                                          | 7.9                                                          | 104                                                                           | 0.040                                                                    | 1.30                                                                     | 0.210                                                                    | 2.3                                                                           |
| 24...    | 6.9                                                      | 2.0                                                            | 0.10                                                          | 6.0                                                          | 57                                                                            | 0.020                                                                    | 0.920                                                                    | 0.070                                                                    | 0.70                                                                          |
| MAY      |                                                          |                                                                |                                                               |                                                              |                                                                               |                                                                          |                                                                          |                                                                          |                                                                               |
| 09...    | 27                                                       | 5.0                                                            | 0.20                                                          | 17                                                           | 252                                                                           | <0.010                                                                   | 0.170                                                                    | 0.020                                                                    | 0.80                                                                          |
| 21...    | 32                                                       | 7.2                                                            | 0.20                                                          | 14                                                           | 265                                                                           | <0.010                                                                   | 0.050                                                                    | 0.030                                                                    | 1.3                                                                           |
| JUN      |                                                          |                                                                |                                                               |                                                              |                                                                               |                                                                          |                                                                          |                                                                          |                                                                               |
| 03...    | 36                                                       | 6.4                                                            | 0.20                                                          | 8.0                                                          | 178                                                                           | 0.110                                                                    | 1.80                                                                     | 0.570                                                                    | 2.6                                                                           |
| 18...    | 59                                                       | 9.4                                                            | 0.30                                                          | 12                                                           | 287                                                                           | 0.130                                                                    | 0.770                                                                    | 0.040                                                                    | 1.3                                                                           |
| JUL      |                                                          |                                                                |                                                               |                                                              |                                                                               |                                                                          |                                                                          |                                                                          |                                                                               |
| 03...    | 57                                                       | 9.5                                                            | 0.20                                                          | 15                                                           | 323                                                                           | 0.460                                                                    | 1.50                                                                     | 0.190                                                                    | 1.9                                                                           |
| 18...    | 46                                                       | 6.5                                                            | 0.20                                                          | 18                                                           | 301                                                                           | 0.360                                                                    | 1.40                                                                     | 0.270                                                                    | 1.3                                                                           |
| 29...    | 38                                                       | 6.6                                                            | 0.20                                                          | 21                                                           | 308                                                                           | --                                                                       | --                                                                       | --                                                                       | --                                                                            |
| AUG      |                                                          |                                                                |                                                               |                                                              |                                                                               |                                                                          |                                                                          |                                                                          |                                                                               |
| 13...    | 46                                                       | 11                                                             | 0.20                                                          | 19                                                           | 338                                                                           | 0.020                                                                    | 0.220                                                                    | 0.050                                                                    | 0.70                                                                          |
| 29...    | 52                                                       | 13                                                             | 0.20                                                          | 17                                                           | 355                                                                           | 0.020                                                                    | 0.160                                                                    | 0.050                                                                    | 0.60                                                                          |
| SEP      |                                                          |                                                                |                                                               |                                                              |                                                                               |                                                                          |                                                                          |                                                                          |                                                                               |
| 09...    | 43                                                       | 12                                                             | 0.20                                                          | 16                                                           | 306                                                                           | <0.010                                                                   | 0.060                                                                    | <0.020                                                                   | <0.20                                                                         |
| 16...    | 59                                                       | 9.7                                                            | 0.20                                                          | 19                                                           | 386                                                                           | <0.010                                                                   | 0.060                                                                    | <0.015                                                                   | 0.60                                                                          |

| DATE     | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>DIS.<br>(MG/L<br>AS N)<br>(00623) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | 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) | 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) | CARBON,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS C)<br>(00681) | CARBON,<br>ORGANIC<br>SUS-<br>PENDE<br>TOTAL<br>(MG/L<br>AS C)<br>(00689) |
|----------|------------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------------|
| FEB 1996 |                                                                              |                                                       |                                                                |                                                                          |                                                       |                                                                 |                                                                   |                                                                           |
| 16...    | 0.60                                                                         | 0.310                                                 | 0.050                                                          | 0.040                                                                    | 19                                                    | 24                                                              | 5.9                                                               | 3.1                                                                       |
| 29...    | 0.90                                                                         | 0.560                                                 | 0.050                                                          | 0.040                                                                    | 6.0                                                   | 5.0                                                             | 7.6                                                               | >5.0                                                                      |
| MAR      |                                                                              |                                                       |                                                                |                                                                          |                                                       |                                                                 |                                                                   |                                                                           |
| 21...    | 0.70                                                                         | 0.430                                                 | 0.080                                                          | 0.050                                                                    | 47                                                    | 9.0                                                             | 6.4                                                               | 4.9                                                                       |
| APR      |                                                                              |                                                       |                                                                |                                                                          |                                                       |                                                                 |                                                                   |                                                                           |
| 04...    | 0.50                                                                         | 0.550                                                 | 0.050                                                          | 0.040                                                                    | 14                                                    | 27                                                              | --                                                                | 1.7                                                                       |
| 18...    | 0.60                                                                         | 0.780                                                 | 0.050                                                          | 0.050                                                                    | 47                                                    | 25                                                              | --                                                                | --                                                                        |
| 24...    | 0.40                                                                         | 0.680                                                 | 0.080                                                          | 0.080                                                                    | 17                                                    | 10                                                              | 7.2                                                               | 5.2                                                                       |
| MAY      |                                                                              |                                                       |                                                                |                                                                          |                                                       |                                                                 |                                                                   |                                                                           |
| 09...    | 0.30                                                                         | 0.100                                                 | 0.010                                                          | 0.010                                                                    | 7.0                                                   | 270                                                             | 4.0                                                               | 3.0                                                                       |
| 21...    | 0.30                                                                         | 0.240                                                 | 0.040                                                          | 0.020                                                                    | 4.0                                                   | 210                                                             | 4.3                                                               | 3.3                                                                       |
| JUN      |                                                                              |                                                       |                                                                |                                                                          |                                                       |                                                                 |                                                                   |                                                                           |
| 03...    | 1.5                                                                          | 0.460                                                 | 0.070                                                          | 0.060                                                                    | 95                                                    | 7.0                                                             | 5.5                                                               | 3.2                                                                       |
| 18...    | 0.60                                                                         | 0.220                                                 | 0.050                                                          | 0.040                                                                    | 8.0                                                   | 23                                                              | 5.6                                                               | 2.5                                                                       |
| JUL      |                                                                              |                                                       |                                                                |                                                                          |                                                       |                                                                 |                                                                   |                                                                           |
| 03...    | 0.90                                                                         | 0.170                                                 | 0.040                                                          | 0.050                                                                    | 7.0                                                   | 16                                                              | 6.4                                                               | 0.20                                                                      |
| 18...    | 0.90                                                                         | 0.120                                                 | 0.070                                                          | 0.080                                                                    | 4.0                                                   | 7.0                                                             | 5.4                                                               | 1.8                                                                       |
| 29...    | --                                                                           | --                                                    | --                                                             | --                                                                       | 4.0                                                   | 10                                                              | 4.8                                                               | 1.2                                                                       |
| AUG      |                                                                              |                                                       |                                                                |                                                                          |                                                       |                                                                 |                                                                   |                                                                           |
| 13...    | 0.40                                                                         | 0.150                                                 | 0.090                                                          | 0.120                                                                    | 6.0                                                   | 7.0                                                             | 5.1                                                               | 0.90                                                                      |
| 29...    | 0.40                                                                         | 0.130                                                 | 0.110                                                          | 0.110                                                                    | <3.0                                                  | 3.0                                                             | 5.1                                                               | 1.4                                                                       |
| SEP      |                                                                              |                                                       |                                                                |                                                                          |                                                       |                                                                 |                                                                   |                                                                           |
| 09...    | 0.40                                                                         | 0.030                                                 | 0.060                                                          | 0.080                                                                    | <3.0                                                  | 10                                                              | 6.2                                                               | 2.5                                                                       |
| 16...    | 0.20                                                                         | 0.090                                                 | 0.060                                                          | 0.040                                                                    | <3.0                                                  | 85                                                              | 4.7                                                               | 1.5                                                                       |

## YAZOO RIVER BASIN

07288650 BOGUE PHALIA NEAR LELAND, MS--Continued

## PESTICIDE ANALYSES, JUNE 1995 TO SEPTEMBER 1996

| DATE     | 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)             | METO-<br>LACHLOR<br>WATER<br>(UG/L)<br>(39415)                             | NAPROP-<br>AMIDE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82684)            | PRON-<br>AMIDE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82676) | PROP-<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) | ALDI-<br>CARB,<br>WATER,<br>FLTRD<br>0.7 U<br>GF 0.7U<br>REC<br>(UG/L)<br>(49312) | ALDI-<br>CARB<br>SULFONE<br>WAT, FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49313) | ALDICA-<br>RB SUL-<br>FOXIDE,<br>WAT, FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49314) | BUTYL-<br>ATE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04028)           | CAR-<br>BARYL,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49310) |
|----------|---------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------|
| FEB 1996 |                                                                           |                                                                            |                                                                            |                                                                                        |                                                                           |                                                                            |                                                                          |                                                                                   |                                                                             |                                                                                  |                                                                         |                                                                           |
| 16...    | <0.002                                                                    | <0.002                                                                     | 0.058                                                                      | <0.003                                                                                 | <0.003                                                                    | <0.007                                                                     | 0.008                                                                    | <0.016                                                                            | <0.016                                                                      | <0.021                                                                           | <0.002                                                                  | <0.008                                                                    |
| 29...    | <0.002                                                                    | <0.002                                                                     | 0.067                                                                      | <0.003                                                                                 | <0.003                                                                    | <0.007                                                                     | 0.005                                                                    | <0.016                                                                            | <0.016                                                                      | <0.021                                                                           | <0.002                                                                  | <0.008                                                                    |
| MAR      |                                                                           |                                                                            |                                                                            |                                                                                        |                                                                           |                                                                            |                                                                          |                                                                                   |                                                                             |                                                                                  |                                                                         |                                                                           |
| 21...    | 0.011                                                                     | 0.008                                                                      | 1.60                                                                       | <0.003                                                                                 | <0.003                                                                    | <0.007                                                                     | 0.210                                                                    | <0.016                                                                            | <0.016                                                                      | <0.021                                                                           | <0.002                                                                  | <0.008                                                                    |
| APR      |                                                                           |                                                                            |                                                                            |                                                                                        |                                                                           |                                                                            |                                                                          |                                                                                   |                                                                             |                                                                                  |                                                                         |                                                                           |
| 04...    | 0.005                                                                     | <0.006                                                                     | 2.00                                                                       | <0.003                                                                                 | <0.003                                                                    | <0.007                                                                     | 0.007                                                                    | <0.016                                                                            | <0.016                                                                      | <0.021                                                                           | <0.002                                                                  | <0.008                                                                    |
| 18...    | <0.002                                                                    | <0.002                                                                     | 6.30                                                                       | <0.003                                                                                 | <0.003                                                                    | <0.007                                                                     | <0.004                                                                   | <0.016                                                                            | <0.016                                                                      | <0.021                                                                           | <0.002                                                                  | <0.008                                                                    |
| 24...    | <0.002                                                                    | <0.002                                                                     | E5.00                                                                      | <0.003                                                                                 | <0.003                                                                    | <0.007                                                                     | 0.020                                                                    | <0.016                                                                            | <0.016                                                                      | <0.021                                                                           | <0.002                                                                  | <0.008                                                                    |
| MAY      |                                                                           |                                                                            |                                                                            |                                                                                        |                                                                           |                                                                            |                                                                          |                                                                                   |                                                                             |                                                                                  |                                                                         |                                                                           |
| 09...    | <0.002                                                                    | <0.002                                                                     | 1.20                                                                       | <0.003                                                                                 | <0.003                                                                    | <0.007                                                                     | 0.007                                                                    | <0.016                                                                            | <0.016                                                                      | <0.021                                                                           | <0.002                                                                  | <0.008                                                                    |
| 21...    | <0.002                                                                    | <0.002                                                                     | 2.70                                                                       | <0.003                                                                                 | <0.003                                                                    | <0.007                                                                     | <0.004                                                                   | <0.016                                                                            | <0.016                                                                      | <0.021                                                                           | <0.002                                                                  | <0.008                                                                    |
| JUN      |                                                                           |                                                                            |                                                                            |                                                                                        |                                                                           |                                                                            |                                                                          |                                                                                   |                                                                             |                                                                                  |                                                                         |                                                                           |
| 03...    | <0.002                                                                    | 0.035                                                                      | E9.20                                                                      | <0.003                                                                                 | <0.003                                                                    | <0.007                                                                     | <0.004                                                                   | <0.016                                                                            | <0.016                                                                      | <0.021                                                                           | <0.002                                                                  | <0.008                                                                    |
| 18...    | 0.021                                                                     | <0.002                                                                     | 0.620                                                                      | <0.003                                                                                 | <0.003                                                                    | <0.007                                                                     | 0.008                                                                    | <0.016                                                                            | <0.016                                                                      | <0.021                                                                           | <0.002                                                                  | <0.008                                                                    |
| JUL      |                                                                           |                                                                            |                                                                            |                                                                                        |                                                                           |                                                                            |                                                                          |                                                                                   |                                                                             |                                                                                  |                                                                         |                                                                           |
| 03...    | <0.002                                                                    | <0.002                                                                     | 0.260                                                                      | <0.003                                                                                 | <0.003                                                                    | <0.007                                                                     | 0.017                                                                    | <0.016                                                                            | <0.016                                                                      | <0.021                                                                           | <0.002                                                                  | <0.008                                                                    |
| 18...    | <0.002                                                                    | <0.002                                                                     | 0.730                                                                      | <0.003                                                                                 | <0.003                                                                    | <0.007                                                                     | 0.052                                                                    | <0.016                                                                            | <0.016                                                                      | <0.021                                                                           | <0.002                                                                  | <0.008                                                                    |
| 29...    | <0.002                                                                    | <0.002                                                                     | 0.100                                                                      | <0.003                                                                                 | <0.003                                                                    | <0.007                                                                     | <0.004                                                                   | <0.016                                                                            | <0.016                                                                      | <0.021                                                                           | <0.002                                                                  | <0.008                                                                    |
| AUG      |                                                                           |                                                                            |                                                                            |                                                                                        |                                                                           |                                                                            |                                                                          |                                                                                   |                                                                             |                                                                                  |                                                                         |                                                                           |
| 13...    | <0.002                                                                    | <0.002                                                                     | 0.130                                                                      | <0.003                                                                                 | <0.003                                                                    | E0.007                                                                     | 0.006                                                                    | <0.016                                                                            | <0.016                                                                      | <0.021                                                                           | <0.002                                                                  | <0.008                                                                    |
| 29...    | <0.002                                                                    | <0.002                                                                     | 0.159                                                                      | <0.003                                                                                 | <0.003                                                                    | E0.003                                                                     | <0.004                                                                   | <0.016                                                                            | <0.016                                                                      | <0.021                                                                           | <0.002                                                                  | <0.008                                                                    |
| SEP      |                                                                           |                                                                            |                                                                            |                                                                                        |                                                                           |                                                                            |                                                                          |                                                                                   |                                                                             |                                                                                  |                                                                         |                                                                           |
| 09...    | <0.002                                                                    | <0.002                                                                     | 0.134                                                                      | <0.003                                                                                 | <0.003                                                                    | <0.007                                                                     | <0.004                                                                   | <0.016                                                                            | <0.016                                                                      | <0.021                                                                           | <0.002                                                                  | <0.008                                                                    |
| 16...    | <0.002                                                                    | <0.002                                                                     | 0.057                                                                      | <0.003                                                                                 | <0.003                                                                    | <0.007                                                                     | <0.004                                                                   | <0.016                                                                            | <0.016                                                                      | <0.021                                                                           | <0.002                                                                  | <0.008                                                                    |
|          |                                                                           |                                                                            |                                                                            |                                                                                        |                                                                           |                                                                            |                                                                          |                                                                                   |                                                                             |                                                                                  |                                                                         |                                                                           |
| DATE     | CAR-<br>BARYL<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82680) | CARBO-<br>FURAN,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49309) | CARBO-<br>FURAN<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82674) | 3HYDRXY<br>CARBO-<br>WATER<br>FLTRD<br>WAT, FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49308) | EPTC<br>WATER<br>FLTRD<br>GF, REC<br>(UG/L)<br>(82668)                    | METHIO-<br>CARB,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(38501) | METH-<br>OMYL,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49296) | MOL-<br>INATE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82671)          | OXAMYL,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(38866)           | FEB-<br>ULATE<br>WATER<br>FILTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82669)        | PRO-<br>PHAM,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49236) | PRO-<br>POXUR,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(38538) |
| FEB 1996 |                                                                           |                                                                            |                                                                            |                                                                                        |                                                                           |                                                                            |                                                                          |                                                                                   |                                                                             |                                                                                  |                                                                         |                                                                           |
| 16...    | <0.003                                                                    | <0.028                                                                     | <0.003                                                                     | <0.014                                                                                 | <0.002                                                                    | <0.026                                                                     | <0.017                                                                   | 0.076                                                                             | <0.018                                                                      | <0.004                                                                           | <0.035                                                                  | <0.035                                                                    |
| 29...    | <0.003                                                                    | <0.028                                                                     | <0.003                                                                     | <0.014                                                                                 | <0.002                                                                    | <0.026                                                                     | <0.017                                                                   | 0.036                                                                             | <0.018                                                                      | <0.004                                                                           | <0.035                                                                  | <0.035                                                                    |
| MAR      |                                                                           |                                                                            |                                                                            |                                                                                        |                                                                           |                                                                            |                                                                          |                                                                                   |                                                                             |                                                                                  |                                                                         |                                                                           |
| 21...    | <0.003                                                                    | <0.028                                                                     | <0.003                                                                     | <0.014                                                                                 | <0.002                                                                    | <0.026                                                                     | <0.017                                                                   | 2.50                                                                              | <0.018                                                                      | <0.004                                                                           | <0.035                                                                  | <0.035                                                                    |
| APR      |                                                                           |                                                                            |                                                                            |                                                                                        |                                                                           |                                                                            |                                                                          |                                                                                   |                                                                             |                                                                                  |                                                                         |                                                                           |
| 04...    | <0.003                                                                    | <0.028                                                                     | <0.003                                                                     | <0.014                                                                                 | <0.002                                                                    | <0.026                                                                     | <0.017                                                                   | 0.190                                                                             | --                                                                          | <0.004                                                                           | <0.035                                                                  | <0.035                                                                    |
| 18...    | <0.003                                                                    | <0.028                                                                     | <0.003                                                                     | <0.014                                                                                 | <0.002                                                                    | <0.026                                                                     | <0.017                                                                   | 0.080                                                                             | <0.018                                                                      | <0.004                                                                           | <0.035                                                                  | <0.035                                                                    |
| 24...    | <0.003                                                                    | <0.028                                                                     | <0.003                                                                     | <0.014                                                                                 | <0.002                                                                    | <0.026                                                                     | <0.017                                                                   | 0.070                                                                             | <0.018                                                                      | <0.004                                                                           | <0.035                                                                  | <0.035                                                                    |
| MAY      |                                                                           |                                                                            |                                                                            |                                                                                        |                                                                           |                                                                            |                                                                          |                                                                                   |                                                                             |                                                                                  |                                                                         |                                                                           |
| 09...    | <0.003                                                                    | <0.028                                                                     | <0.003                                                                     | <0.014                                                                                 | <0.002                                                                    | <0.026                                                                     | <0.017                                                                   | 0.210                                                                             | <0.018                                                                      | <0.004                                                                           | <0.035                                                                  | <0.035                                                                    |
| 21...    | <0.003                                                                    | <0.028                                                                     | <0.003                                                                     | <0.014                                                                                 | <0.002                                                                    | <0.026                                                                     | <0.017                                                                   | 2.40                                                                              | <0.018                                                                      | <0.004                                                                           | <0.035                                                                  | <0.035                                                                    |
| JUN      |                                                                           |                                                                            |                                                                            |                                                                                        |                                                                           |                                                                            |                                                                          |                                                                                   |                                                                             |                                                                                  |                                                                         |                                                                           |
| 03...    | E0.065                                                                    | <0.028                                                                     | E0.280                                                                     | <0.014                                                                                 | <0.002                                                                    | <0.026                                                                     | <0.017                                                                   | E40.0                                                                             | <0.018                                                                      | <0.004                                                                           | <0.035                                                                  | <0.035                                                                    |
| 18...    | <0.003                                                                    | <0.028                                                                     | E0.040                                                                     | <0.014                                                                                 | <0.002                                                                    | <0.026                                                                     | <0.017                                                                   | 100                                                                               | <0.018                                                                      | 0.005                                                                            | <0.035                                                                  | <0.035                                                                    |
| JUL      |                                                                           |                                                                            |                                                                            |                                                                                        |                                                                           |                                                                            |                                                                          |                                                                                   |                                                                             |                                                                                  |                                                                         |                                                                           |
| 03...    | <0.003                                                                    | <0.028                                                                     | <0.003                                                                     | <0.014                                                                                 | <0.002                                                                    | <0.026                                                                     | 0.270                                                                    | 30.0                                                                              | <0.018                                                                      | <0.004                                                                           | <0.035                                                                  | <0.035                                                                    |
| 18...    | <0.003                                                                    | 0.340                                                                      | E0.400                                                                     | <0.014                                                                                 | <0.002                                                                    | <0.026                                                                     | 0.650                                                                    | 8.70                                                                              | <0.018                                                                      | <0.004                                                                           | <0.035                                                                  | <0.035                                                                    |
| 29...    | <0.003                                                                    | <0.028                                                                     | E0.026                                                                     | <0.014                                                                                 | <0.002                                                                    | <0.026                                                                     | <0.017                                                                   | 1.50                                                                              | <0.018                                                                      | <0.004                                                                           | <0.035                                                                  | <0.035                                                                    |
| AUG      |                                                                           |                                                                            |                                                                            |                                                                                        |                                                                           |                                                                            |                                                                          |                                                                                   |                                                                             |                                                                                  |                                                                         |                                                                           |
| 13...    | <0.003                                                                    | <0.028                                                                     | <0.003                                                                     | <0.014                                                                                 | <0.002                                                                    | <0.026                                                                     | 0.290                                                                    | 0.560                                                                             | <0.018                                                                      | <0.004                                                                           | <0.035                                                                  | <0.035                                                                    |
| 29...    | <0.003                                                                    | <0.028                                                                     | <0.003                                                                     | <0.014                                                                                 | <0.002                                                                    | <0.026                                                                     | E0.210                                                                   | 0.378                                                                             | <0.018                                                                      | <0.004                                                                           | <0.035                                                                  | <0.035                                                                    |
| SEP      |                                                                           |                                                                            |                                                                            |                                                                                        |                                                                           |                                                                            |                                                                          |                                                                                   |                                                                             |                                                                                  |                                                                         |                                                                           |
| 09...    | <0.003                                                                    | <0.028                                                                     | <0.003                                                                     | <0.014                                                                                 | <0.002                                                                    | <0.026                                                                     | <0.017                                                                   | 0.395                                                                             | <0.018                                                                      | <0.004                                                                           | <0.035                                                                  | <0.035                                                                    |
| 16...    | <0.003                                                                    | <0.028                                                                     | <0.003                                                                     | <0.014                                                                                 | <0.002                                                                    | <0.026                                                                     | <0.017                                                                   | 0.440                                                                             | <0.018                                                                      | <0.004                                                                           | <0.035                                                                  | <0.035                                                                    |

07288650 BOGUE PHALIA NEAR LELAND, MS--Continued

## PESTICIDE ANALYSES, JUNE 1995 TO SEPTEMBER 1996

| DATE     | 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) | 2,4-D,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39732) | 2,4-D,<br>TOTAL<br>(UG/L)<br>(39730) | DICHLOR<br>PROP,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49302) | 2,4-DP<br>TOTAL<br>(UG/L)<br>(82183) | 2,4-DB<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(38746) | MCPA,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(38482) | MCPB,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(38487) | SILVEX,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39762) | SILVEX,<br>TOTAL<br>(UG/L)<br>(39760) | 2,4,5-T<br>DIS-<br>SOLVED<br>(UG/L)<br>(39742) |
|----------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------|---------------------------------------|------------------------------------------------|
| FEB 1996 |                                                                             |                                                                           |                                               |                                      |                                                                             |                                      |                                                                   |                                                                  |                                                                  |                                                |                                       |                                                |
| 16...    | 0.036                                                                       | <0.001                                                                    | <0.035                                        | --                                   | <0.032                                                                      | --                                   | <0.013                                                            | <0.050                                                           | <0.035                                                           | <0.021                                         | --                                    | <0.035                                         |
| 29...    | 0.008                                                                       | <0.001                                                                    | 0.180                                         | --                                   | <0.032                                                                      | --                                   | <0.035                                                            | <0.050                                                           | <0.035                                                           | <0.021                                         | --                                    | <0.035                                         |
| MAR      |                                                                             |                                                                           |                                               |                                      |                                                                             |                                      |                                                                   |                                                                  |                                                                  |                                                |                                       |                                                |
| 21...    | 0.023                                                                       | <0.001                                                                    | 0.640                                         | --                                   | <0.032                                                                      | --                                   | <0.035                                                            | <0.050                                                           | <0.035                                                           | <0.021                                         | --                                    | <0.035                                         |
| APR      |                                                                             |                                                                           |                                               |                                      |                                                                             |                                      |                                                                   |                                                                  |                                                                  |                                                |                                       |                                                |
| 04...    | 0.018                                                                       | <0.001                                                                    | 0.410                                         | --                                   | <0.032                                                                      | --                                   | <0.035                                                            | <0.050                                                           | <0.035                                                           | <0.021                                         | --                                    | <0.035                                         |
| 18...    | 0.015                                                                       | <0.001                                                                    | 0.560                                         | --                                   | <0.032                                                                      | --                                   | <0.035                                                            | <0.050                                                           | <0.035                                                           | <0.021                                         | --                                    | <0.035                                         |
| 24...    | <0.002                                                                      | <0.001                                                                    | <0.035                                        | --                                   | <0.032                                                                      | --                                   | <0.035                                                            | <0.050                                                           | <0.035                                                           | <0.021                                         | --                                    | <0.035                                         |
| MAY      |                                                                             |                                                                           |                                               |                                      |                                                                             |                                      |                                                                   |                                                                  |                                                                  |                                                |                                       |                                                |
| 09...    | 0.019                                                                       | <0.001                                                                    | <0.035                                        | <0.010                               | <0.032                                                                      | <0.010                               | <0.035                                                            | <0.050                                                           | <0.035                                                           | <0.021                                         | <0.010                                | <0.035                                         |
| 21...    | 0.230                                                                       | <0.001                                                                    | <0.035                                        | 0.040                                | <0.032                                                                      | <0.010                               | <0.035                                                            | <0.050                                                           | <0.035                                                           | <0.021                                         | <0.010                                | <0.035                                         |
| JUN      |                                                                             |                                                                           |                                               |                                      |                                                                             |                                      |                                                                   |                                                                  |                                                                  |                                                |                                       |                                                |
| 03...    | 4.00                                                                        | <0.001                                                                    | <0.035                                        | 0.040                                | <0.032                                                                      | <0.010                               | <0.035                                                            | <0.050                                                           | <0.035                                                           | <0.021                                         | <0.010                                | <0.035                                         |
| 18...    | 0.410                                                                       | <0.001                                                                    | 0.680                                         | 0.630                                | <0.032                                                                      | <0.010                               | <0.035                                                            | <0.050                                                           | <0.035                                                           | <0.021                                         | <0.010                                | <0.035                                         |
| JUL      |                                                                             |                                                                           |                                               |                                      |                                                                             |                                      |                                                                   |                                                                  |                                                                  |                                                |                                       |                                                |
| 03...    | 0.150                                                                       | <0.001                                                                    | 0.420                                         | --                                   | <0.032                                                                      | --                                   | <0.035                                                            | <0.050                                                           | <0.035                                                           | <0.021                                         | --                                    | <0.035                                         |
| 18...    | 0.360                                                                       | <0.001                                                                    | 0.630                                         | --                                   | <0.032                                                                      | --                                   | <0.035                                                            | <0.050                                                           | <0.035                                                           | <0.021                                         | --                                    | <0.035                                         |
| 29...    | 0.054                                                                       | <0.001                                                                    | 0.340                                         | --                                   | <0.032                                                                      | --                                   | <0.035                                                            | <0.050                                                           | <0.035                                                           | <0.021                                         | --                                    | <0.035                                         |
| AUG      |                                                                             |                                                                           |                                               |                                      |                                                                             |                                      |                                                                   |                                                                  |                                                                  |                                                |                                       |                                                |
| 13...    | 0.047                                                                       | <0.001                                                                    | <0.035                                        | --                                   | <0.032                                                                      | --                                   | <0.035                                                            | <0.050                                                           | <0.035                                                           | <0.021                                         | --                                    | <0.035                                         |
| 29...    | 0.112                                                                       | <0.001                                                                    | 0.500                                         | --                                   | <0.032                                                                      | --                                   | <0.035                                                            | <0.050                                                           | <0.035                                                           | <0.021                                         | --                                    | <0.035                                         |
| SEP      |                                                                             |                                                                           |                                               |                                      |                                                                             |                                      |                                                                   |                                                                  |                                                                  |                                                |                                       |                                                |
| 09...    | 0.017                                                                       | <0.001                                                                    | <0.035                                        | --                                   | <0.032                                                                      | --                                   | <0.035                                                            | <0.050                                                           | <0.035                                                           | <0.021                                         | --                                    | <0.035                                         |
| 16...    | 0.018                                                                       | <0.001                                                                    | <0.035                                        | --                                   | <0.032                                                                      | --                                   | <0.035                                                            | <0.050                                                           | <0.035                                                           | <0.021                                         | --                                    | <0.035                                         |

| DATE     | 2,4,5-T<br>TOTAL<br>(UG/L)<br>(39740) | TRI-<br>CLOPYR,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49235) | BEN-<br>FLUR-<br>ALIN<br>WAT FLT<br>GF, REC<br>(UG/L)<br>(82673) | ETHAL-<br>FLUR-<br>ALIN<br>WAT FLT<br>GF, REC<br>(UG/L)<br>(82663) | ORY-<br>ZALIN,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49292) | PENDI-<br>METH-<br>ALIN<br>WAT FLT<br>GF, REC<br>(UG/L)<br>(82683) | TRI-<br>FLUR-<br>ALIN<br>WAT FLT<br>GF, REC<br>(UG/L)<br>(82661) | ALPHA<br>BHC<br>DIS-<br>SOLVED<br>(UG/L)<br>(34253) | CHLORO-<br>THALO-<br>NIL,<br>WAT, FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49306) | DCPA<br>WATER<br>FLTRD<br>GF, REC<br>(UG/L)<br>(82682) | DACTHAL<br>MONO-<br>ACID,<br>WAT, FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49304) | P,P'<br>DDE<br>DISSOLV<br>(UG/L)<br>(34653) |
|----------|---------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------|
| FEB 1996 |                                       |                                                                            |                                                                  |                                                                    |                                                                           |                                                                    |                                                                  |                                                     |                                                                              |                                                        |                                                                              |                                             |
| 16...    | --                                    | <0.050                                                                     | <0.002                                                           | <0.004                                                             | <0.019                                                                    | <0.004                                                             | <0.002                                                           | <0.002                                              | <0.035                                                                       | <0.002                                                 | <0.017                                                                       | E0.001                                      |
| 29...    | --                                    | <0.050                                                                     | <0.002                                                           | <0.004                                                             | <0.019                                                                    | 0.012                                                              | 0.007                                                            | <0.002                                              | <0.035                                                                       | <0.002                                                 | <0.017                                                                       | E0.002                                      |
| MAR      |                                       |                                                                            |                                                                  |                                                                    |                                                                           |                                                                    |                                                                  |                                                     |                                                                              |                                                        |                                                                              |                                             |
| 21...    | --                                    | <0.050                                                                     | <0.002                                                           | <0.004                                                             | <0.019                                                                    | 0.019                                                              | 0.008                                                            | <0.002                                              | <0.035                                                                       | E0.002                                                 | <0.017                                                                       | <0.006                                      |
| APR      |                                       |                                                                            |                                                                  |                                                                    |                                                                           |                                                                    |                                                                  |                                                     |                                                                              |                                                        |                                                                              |                                             |
| 04...    | --                                    | <0.050                                                                     | <0.002                                                           | <0.004                                                             | <0.019                                                                    | 0.022                                                              | 0.011                                                            | <0.005                                              | <0.035                                                                       | <0.002                                                 | <0.017                                                                       | E0.002                                      |
| 18...    | --                                    | <0.050                                                                     | <0.002                                                           | <0.004                                                             | <0.019                                                                    | 0.086                                                              | 0.032                                                            | <0.002                                              | <0.035                                                                       | E0.002                                                 | <0.017                                                                       | E0.002                                      |
| 24...    | --                                    | <0.050                                                                     | <0.002                                                           | <0.004                                                             | <0.019                                                                    | E0.130                                                             | E0.072                                                           | <0.002                                              | <0.035                                                                       | <0.002                                                 | <0.017                                                                       | <0.006                                      |
| MAY      |                                       |                                                                            |                                                                  |                                                                    |                                                                           |                                                                    |                                                                  |                                                     |                                                                              |                                                        |                                                                              |                                             |
| 09...    | <0.010                                | <0.050                                                                     | <0.002                                                           | <0.004                                                             | <0.019                                                                    | <0.004                                                             | <0.002                                                           | <0.002                                              | <0.035                                                                       | <0.002                                                 | <0.017                                                                       | <0.006                                      |
| 21...    | <0.010                                | <0.050                                                                     | <0.002                                                           | <0.004                                                             | <0.019                                                                    | <0.004                                                             | <0.002                                                           | <0.002                                              | <0.035                                                                       | <0.002                                                 | <0.017                                                                       | <0.006                                      |
| JUN      |                                       |                                                                            |                                                                  |                                                                    |                                                                           |                                                                    |                                                                  |                                                     |                                                                              |                                                        |                                                                              |                                             |
| 03...    | <0.010                                | <0.050                                                                     | <0.002                                                           | <0.004                                                             | <0.019                                                                    | 0.480                                                              | 0.031                                                            | <0.002                                              | <0.035                                                                       | <0.002                                                 | <0.017                                                                       | <0.006                                      |
| 18...    | <0.010                                | 1.30                                                                       | <0.002                                                           | <0.004                                                             | <0.019                                                                    | 0.062                                                              | E0.002                                                           | <0.002                                              | <0.035                                                                       | <0.002                                                 | <0.017                                                                       | E0.003                                      |
| JUL      |                                       |                                                                            |                                                                  |                                                                    |                                                                           |                                                                    |                                                                  |                                                     |                                                                              |                                                        |                                                                              |                                             |
| 03...    | --                                    | E4.60                                                                      | <0.002                                                           | <0.004                                                             | <0.019                                                                    | <0.004                                                             | <0.002                                                           | <0.002                                              | <0.035                                                                       | <0.002                                                 | <0.017                                                                       | <0.006                                      |
| 18...    | --                                    | E1.70                                                                      | <0.002                                                           | <0.004                                                             | <0.019                                                                    | <0.004                                                             | <0.002                                                           | <0.002                                              | <0.035                                                                       | <0.002                                                 | <0.017                                                                       | <0.006                                      |
| 29...    | --                                    | 1.00                                                                       | <0.002                                                           | <0.004                                                             | <0.019                                                                    | <0.004                                                             | <0.002                                                           | <0.002                                              | <0.035                                                                       | <0.002                                                 | <0.017                                                                       | <0.006                                      |
| AUG      |                                       |                                                                            |                                                                  |                                                                    |                                                                           |                                                                    |                                                                  |                                                     |                                                                              |                                                        |                                                                              |                                             |
| 13...    | --                                    | <0.050                                                                     | <0.002                                                           | <0.004                                                             | <0.019                                                                    | <0.004                                                             | <0.002                                                           | <0.002                                              | <0.035                                                                       | <0.002                                                 | <0.017                                                                       | <0.006                                      |
| 29...    | --                                    | 0.570                                                                      | <0.002                                                           | <0.004                                                             | <0.019                                                                    | <0.004                                                             | <0.002                                                           | <0.002                                              | <0.035                                                                       | <0.002                                                 | <0.017                                                                       | <0.006                                      |
| SEP      |                                       |                                                                            |                                                                  |                                                                    |                                                                           |                                                                    |                                                                  |                                                     |                                                                              |                                                        |                                                                              |                                             |
| 09...    | --                                    | 0.550                                                                      | <0.002                                                           | <0.004                                                             | <0.019                                                                    | <0.004                                                             | <0.002                                                           | <0.002                                              | <0.035                                                                       | <0.002                                                 | <0.017                                                                       | <0.006                                      |
| 16...    | --                                    | <0.050                                                                     | <0.002                                                           | <0.004                                                             | <0.019                                                                    | <0.004                                                             | <0.002                                                           | <0.002                                              | <0.035                                                                       | <0.002                                                 | <0.017                                                                       | <0.006                                      |

## YAZOO RIVER BASIN

07288650 BOGUE PHALIA NEAR LELAND, MS--Continued

## PESTICIDE ANALYSES, JUNE 1995 TO SEPTEMBER 1996

| DATE     | DICHLOR-<br>BENIL,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49303) | DI-<br>ELDRIN<br>DIS-<br>SOLVED<br>(UG/L)<br>(39381)                     | LINDANE<br>DIS-<br>SOLVED<br>(UG/L)<br>(39341)                             | METHYL<br>AZIN-<br>PHOS<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82686) | CHLOR-<br>PYRIFOS<br>DIS-<br>SOLVED<br>(UG/L)<br>(38933)                 | DI-<br>AZINON,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39572)          | DISUL-<br>FOTON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82677) | ETHO-<br>PROP<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82672) | FONOFOS<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(04095)          | MALA-<br>THION,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39532)        | METHYL<br>PARA-<br>THION<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82667) | PARA-<br>THION,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39542)                  |
|----------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| FEB 1996 |                                                                               |                                                                          |                                                                            |                                                                             |                                                                          |                                                                |                                                                            |                                                                          |                                                               |                                                               |                                                                              |                                                                         |
| 16...    | <0.020                                                                        | <0.001                                                                   | <0.004                                                                     | <0.001                                                                      | <0.004                                                                   | <0.002                                                         | <0.017                                                                     | <0.003                                                                   | <0.003                                                        | <0.005                                                        | <0.006                                                                       | <0.004                                                                  |
| 29...    | <0.020                                                                        | <0.001                                                                   | <0.004                                                                     | <0.001                                                                      | <0.004                                                                   | <0.002                                                         | <0.017                                                                     | <0.003                                                                   | <0.003                                                        | <0.005                                                        | <0.006                                                                       | <0.004                                                                  |
| MAR      |                                                                               |                                                                          |                                                                            |                                                                             |                                                                          |                                                                |                                                                            |                                                                          |                                                               |                                                               |                                                                              |                                                                         |
| 21...    | <0.020                                                                        | <0.001                                                                   | <0.004                                                                     | <0.001                                                                      | 0.006                                                                    | <0.002                                                         | <0.017                                                                     | <0.003                                                                   | <0.003                                                        | <0.005                                                        | 0.029                                                                        | <0.004                                                                  |
| APR      |                                                                               |                                                                          |                                                                            |                                                                             |                                                                          |                                                                |                                                                            |                                                                          |                                                               |                                                               |                                                                              |                                                                         |
| 04...    | <0.020                                                                        | <0.001                                                                   | <0.004                                                                     | <0.001                                                                      | <0.004                                                                   | <0.002                                                         | <0.017                                                                     | <0.003                                                                   | <0.003                                                        | <0.005                                                        | <0.006                                                                       | <0.004                                                                  |
| 18...    | <0.020                                                                        | <0.001                                                                   | <0.004                                                                     | <0.001                                                                      | <0.004                                                                   | <0.002                                                         | <0.017                                                                     | <0.003                                                                   | <0.003                                                        | <0.005                                                        | <0.006                                                                       | <0.004                                                                  |
| 24...    | <0.020                                                                        | <0.001                                                                   | <0.004                                                                     | <0.001                                                                      | <0.004                                                                   | <0.002                                                         | <0.017                                                                     | <0.003                                                                   | <0.003                                                        | <0.005                                                        | <0.006                                                                       | <0.004                                                                  |
| MAY      |                                                                               |                                                                          |                                                                            |                                                                             |                                                                          |                                                                |                                                                            |                                                                          |                                                               |                                                               |                                                                              |                                                                         |
| 09...    | <0.020                                                                        | <0.001                                                                   | <0.004                                                                     | <0.001                                                                      | <0.004                                                                   | <0.002                                                         | <0.017                                                                     | <0.003                                                                   | <0.003                                                        | <0.005                                                        | <0.006                                                                       | <0.004                                                                  |
| 21...    | <0.020                                                                        | <0.001                                                                   | <0.004                                                                     | <0.001                                                                      | <0.004                                                                   | <0.002                                                         | <0.017                                                                     | <0.003                                                                   | <0.003                                                        | <0.005                                                        | <0.006                                                                       | <0.004                                                                  |
| JUN      |                                                                               |                                                                          |                                                                            |                                                                             |                                                                          |                                                                |                                                                            |                                                                          |                                                               |                                                               |                                                                              |                                                                         |
| 03...    | <0.020                                                                        | <0.001                                                                   | <0.004                                                                     | <0.001                                                                      | <0.004                                                                   | <0.002                                                         | <0.017                                                                     | <0.003                                                                   | <0.003                                                        | <0.005                                                        | 0.290                                                                        | <0.004                                                                  |
| 18...    | <0.020                                                                        | E0.003                                                                   | <0.004                                                                     | <0.001                                                                      | <0.004                                                                   | <0.002                                                         | <0.017                                                                     | <0.003                                                                   | <0.003                                                        | <0.005                                                        | 0.072                                                                        | <0.004                                                                  |
| JUL      |                                                                               |                                                                          |                                                                            |                                                                             |                                                                          |                                                                |                                                                            |                                                                          |                                                               |                                                               |                                                                              |                                                                         |
| 03...    | <0.020                                                                        | <0.001                                                                   | <0.004                                                                     | <0.001                                                                      | <0.004                                                                   | <0.002                                                         | <0.017                                                                     | <0.003                                                                   | <0.003                                                        | <0.005                                                        | 0.110                                                                        | <0.004                                                                  |
| 18...    | <0.020                                                                        | <0.001                                                                   | <0.004                                                                     | <0.001                                                                      | 0.072                                                                    | <0.002                                                         | <0.017                                                                     | <0.003                                                                   | <0.003                                                        | <0.005                                                        | 0.081                                                                        | <0.004                                                                  |
| 29...    | <0.020                                                                        | <0.001                                                                   | <0.004                                                                     | <0.001                                                                      | <0.004                                                                   | <0.002                                                         | <0.017                                                                     | <0.003                                                                   | <0.003                                                        | <0.005                                                        | 0.220                                                                        | <0.004                                                                  |
| AUG      |                                                                               |                                                                          |                                                                            |                                                                             |                                                                          |                                                                |                                                                            |                                                                          |                                                               |                                                               |                                                                              |                                                                         |
| 13...    | <0.020                                                                        | <0.001                                                                   | <0.004                                                                     | <0.001                                                                      | <0.004                                                                   | <0.002                                                         | <0.017                                                                     | <0.003                                                                   | <0.003                                                        | <0.005                                                        | 0.230                                                                        | <0.004                                                                  |
| 29...    | <0.020                                                                        | <0.001                                                                   | <0.004                                                                     | <0.001                                                                      | <0.004                                                                   | <0.002                                                         | <0.017                                                                     | <0.003                                                                   | <0.003                                                        | <0.005                                                        | 0.068                                                                        | <0.004                                                                  |
| SEP      |                                                                               |                                                                          |                                                                            |                                                                             |                                                                          |                                                                |                                                                            |                                                                          |                                                               |                                                               |                                                                              |                                                                         |
| 09...    | <0.020                                                                        | <0.001                                                                   | <0.004                                                                     | <0.001                                                                      | <0.004                                                                   | <0.002                                                         | <0.017                                                                     | <0.003                                                                   | <0.003                                                        | <0.005                                                        | <0.006                                                                       | <0.004                                                                  |
| 16...    | <0.020                                                                        | <0.001                                                                   | <0.004                                                                     | <0.001                                                                      | <0.004                                                                   | <0.002                                                         | <0.017                                                                     | <0.003                                                                   | <0.003                                                        | <0.005                                                        | <0.006                                                                       | <0.004                                                                  |
|          |                                                                               |                                                                          |                                                                            |                                                                             |                                                                          |                                                                |                                                                            |                                                                          |                                                               |                                                               |                                                                              |                                                                         |
| DATE     | PHORATE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82664)            | TER-<br>BUFOS<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82675) | PER-<br>METHRIN<br>CIS<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82687) | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632)               | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040) | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041) | METRI-<br>BUZIN<br>SENCOR<br>WATER<br>DISSOLV<br>REC<br>(UG/L)<br>(82630)  | PRO-<br>METON,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04037)            | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035) | BRO-<br>MACIL,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04029) | TER-<br>BACIL<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82665)     | FEN-<br>URON,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49297) |
| FEB 1996 |                                                                               |                                                                          |                                                                            |                                                                             |                                                                          |                                                                |                                                                            |                                                                          |                                                               |                                                               |                                                                              |                                                                         |
| 16...    | <0.002                                                                        | <0.013                                                                   | <0.005                                                                     | 0.008                                                                       | <0.002                                                                   | 0.025                                                          | 0.010                                                                      | <0.018                                                                   | <0.005                                                        | <0.035                                                        | <0.007                                                                       | 0.070                                                                   |
| 29...    | <0.002                                                                        | <0.013                                                                   | <0.005                                                                     | 0.010                                                                       | <0.002                                                                   | 0.025                                                          | <0.004                                                                     | <0.018                                                                   | 0.018                                                         | <0.035                                                        | <0.007                                                                       | <0.013                                                                  |
| MAR      |                                                                               |                                                                          |                                                                            |                                                                             |                                                                          |                                                                |                                                                            |                                                                          |                                                               |                                                               |                                                                              |                                                                         |
| 21...    | <0.002                                                                        | <0.013                                                                   | <0.005                                                                     | 0.700                                                                       | E0.011                                                                   | 0.140                                                          | 0.057                                                                      | E0.014                                                                   | 0.400                                                         | <0.035                                                        | <0.007                                                                       | <0.013                                                                  |
| APR      |                                                                               |                                                                          |                                                                            |                                                                             |                                                                          |                                                                |                                                                            |                                                                          |                                                               |                                                               |                                                                              |                                                                         |
| 04...    | <0.002                                                                        | <0.013                                                                   | <0.005                                                                     | 1.60                                                                        | E0.029                                                                   | 0.056                                                          | 0.012                                                                      | <0.018                                                                   | 0.093                                                         | <0.035                                                        | <0.007                                                                       | <0.013                                                                  |
| 18...    | <0.002                                                                        | <0.013                                                                   | <0.005                                                                     | 1.10                                                                        | E0.035                                                                   | 0.068                                                          | 0.530                                                                      | <0.018                                                                   | 0.350                                                         | <0.035                                                        | <0.007                                                                       | <0.013                                                                  |
| 24...    | <0.002                                                                        | <0.013                                                                   | <0.005                                                                     | 1.40                                                                        | E0.043                                                                   | 0.110                                                          | 0.210                                                                      | <0.018                                                                   | 0.110                                                         | <0.035                                                        | <0.007                                                                       | <0.013                                                                  |
| MAY      |                                                                               |                                                                          |                                                                            |                                                                             |                                                                          |                                                                |                                                                            |                                                                          |                                                               |                                                               |                                                                              |                                                                         |
| 09...    | <0.002                                                                        | <0.013                                                                   | <0.005                                                                     | 0.530                                                                       | E0.021                                                                   | 0.024                                                          | 0.042                                                                      | <0.018                                                                   | 0.013                                                         | <0.035                                                        | <0.007                                                                       | <0.013                                                                  |
| 21...    | <0.002                                                                        | <0.013                                                                   | <0.005                                                                     | 1.30                                                                        | E0.046                                                                   | 0.038                                                          | 0.074                                                                      | <0.018                                                                   | 0.012                                                         | <0.035                                                        | <0.007                                                                       | <0.013                                                                  |
| JUN      |                                                                               |                                                                          |                                                                            |                                                                             |                                                                          |                                                                |                                                                            |                                                                          |                                                               |                                                               |                                                                              |                                                                         |
| 03...    | <0.002                                                                        | <0.013                                                                   | <0.005                                                                     | E8.50                                                                       | E0.190                                                                   | 0.250                                                          | 0.880                                                                      | <0.018                                                                   | 0.057                                                         | <0.035                                                        | <0.007                                                                       | <0.013                                                                  |
| 18...    | <0.002                                                                        | <0.013                                                                   | <0.005                                                                     | 0.780                                                                       | E0.073                                                                   | 0.120                                                          | 0.013                                                                      | <0.018                                                                   | 0.190                                                         | <0.035                                                        | <0.007                                                                       | <0.013                                                                  |
| JUL      |                                                                               |                                                                          |                                                                            |                                                                             |                                                                          |                                                                |                                                                            |                                                                          |                                                               |                                                               |                                                                              |                                                                         |
| 03...    | <0.002                                                                        | <0.013                                                                   | <0.005                                                                     | 0.240                                                                       | E0.028                                                                   | 0.740                                                          | 0.024                                                                      | <0.018                                                                   | <0.005                                                        | <0.035                                                        | <0.007                                                                       | <0.013                                                                  |
| 18...    | <0.002                                                                        | <0.013                                                                   | <0.005                                                                     | 0.250                                                                       | E0.019                                                                   | 2.70                                                           | 0.030                                                                      | <0.018                                                                   | 0.014                                                         | <0.035                                                        | <0.007                                                                       | <0.013                                                                  |
| 29...    | <0.002                                                                        | <0.013                                                                   | <0.005                                                                     | 0.052                                                                       | E0.004                                                                   | 0.100                                                          | <0.004                                                                     | <0.018                                                                   | <0.005                                                        | <0.035                                                        | <0.007                                                                       | <0.013                                                                  |
| AUG      |                                                                               |                                                                          |                                                                            |                                                                             |                                                                          |                                                                |                                                                            |                                                                          |                                                               |                                                               |                                                                              |                                                                         |
| 13...    | <0.002                                                                        | <0.013                                                                   | <0.005                                                                     | 0.210                                                                       | E0.006                                                                   | 0.069                                                          | 0.022                                                                      | <0.018                                                                   | 0.008                                                         | <0.035                                                        | <0.007                                                                       | <0.013                                                                  |
| 29...    | <0.002                                                                        | <0.013                                                                   | <0.005                                                                     | 0.011                                                                       | <0.002                                                                   | 0.016                                                          | <0.004                                                                     | <0.018                                                                   | <0.005                                                        | <0.035                                                        | <0.007                                                                       | <0.013                                                                  |
| SEP      |                                                                               |                                                                          |                                                                            |                                                                             |                                                                          |                                                                |                                                                            |                                                                          |                                                               |                                                               |                                                                              |                                                                         |
| 09...    | <0.002                                                                        | <0.013                                                                   | <0.005                                                                     | 0.049                                                                       | <0.002                                                                   | 0.015                                                          | <0.004                                                                     | <0.018                                                                   | <0.005                                                        | <0.035                                                        | <0.007                                                                       | <0.013                                                                  |
| 16...    | <0.002                                                                        | <0.013                                                                   | <0.005                                                                     | 0.014                                                                       | E0.002                                                                   | 0.009                                                          | <0.004                                                                     | <0.018                                                                   | <0.005                                                        | <0.035                                                        | <0.007                                                                       | <0.013                                                                  |

07288650 BOGUE PHALIA NEAR LELAND, MS--Continued

## PESTICIDE ANALYSES, JUNE 1995 TO SEPTEMBER 1996

| DATE     | DIURON,<br>WATER,<br>FLTRD,<br>GF 0.7U                             | FLUO-<br>METURON<br>WATER,<br>FLTRD,<br>GF 0.7U                               | LINURON<br>WATER,<br>FLTRD,<br>GF 0.7U                            | LIN-<br>URON<br>WATER,<br>FLTRD,<br>GF, REC            | NEB-<br>URON,<br>WATER,<br>FLTRD,<br>GF 0.7U                    | TEBU-<br>THIURON<br>WATER,<br>FLTRD,<br>GF, REC                            | ACIFL-<br>UORFEN<br>WATER,<br>FLTRD,<br>GF 0.7U                             | BENTA-<br>ZON,<br>WATER,<br>FLTRD,<br>GF 0.7U                             | BRO-<br>MOXYNIL<br>WATER,<br>FLTRD,<br>GF 0.7U          | CHLOR-<br>AMBEN,<br>WATER,<br>FLTRD,<br>GF 0.7U                            | CLOPYR-<br>ALID,<br>WATER,<br>FLTRD,<br>GF 0.7U |
|----------|--------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------|
|          | REC                                                                | REC                                                                           | REC                                                               |                                                        | REC                                                             |                                                                            | REC                                                                         | REC                                                                       | REC                                                     | REC                                                                        | REC                                             |
|          | (UG/L)                                                             | (UG/L)                                                                        | (UG/L)                                                            | (UG/L)                                                 | (UG/L)                                                          | (UG/L)                                                                     | (UG/L)                                                                      | (UG/L)                                                                    | (UG/L)                                                  | (UG/L)                                                                     | (UG/L)                                          |
|          | (49300)                                                            | (38811)                                                                       | (38478)                                                           | (82666)                                                | (49294)                                                         | (82670)                                                                    | (49315)                                                                     | (38711)                                                                   | (49311)                                                 | (49307)                                                                    | (49305)                                         |
| FEB 1996 |                                                                    |                                                                               |                                                                   |                                                        |                                                                 |                                                                            |                                                                             |                                                                           |                                                         |                                                                            |                                                 |
| 16...    | 0.230                                                              | 0.090                                                                         | <0.018                                                            | 0.008                                                  | <0.015                                                          | <0.010                                                                     | <0.035                                                                      | <0.014                                                                    | <0.035                                                  | <0.011                                                                     | <0.050                                          |
| 29...    | 0.220                                                              | 0.100                                                                         | <0.018                                                            | <0.002                                                 | <0.015                                                          | E0.007                                                                     | <0.035                                                                      | <0.014                                                                    | <0.035                                                  | <0.011                                                                     | <0.050                                          |
| MAR      |                                                                    |                                                                               |                                                                   |                                                        |                                                                 |                                                                            |                                                                             |                                                                           |                                                         |                                                                            |                                                 |
| 21...    | 0.090                                                              | 0.100                                                                         | <0.018                                                            | <0.002                                                 | <0.015                                                          | E0.007                                                                     | 0.070                                                                       | <0.014                                                                    | <0.035                                                  | <0.011                                                                     | <0.050                                          |
| APR      |                                                                    |                                                                               |                                                                   |                                                        |                                                                 |                                                                            |                                                                             |                                                                           |                                                         |                                                                            |                                                 |
| 04...    | 0.090                                                              | 0.050                                                                         | <0.018                                                            | <0.002                                                 | E0.240                                                          | 0.069                                                                      | <0.035                                                                      | <0.014                                                                    | <0.035                                                  | <0.011                                                                     | <0.050                                          |
| 18...    | 0.100                                                              | 0.100                                                                         | <0.018                                                            | <0.002                                                 | <0.015                                                          | 0.041                                                                      | <0.035                                                                      | <0.014                                                                    | <0.035                                                  | <0.011                                                                     | <0.050                                          |
| 24...    | E0.070                                                             | 0.400                                                                         | <0.018                                                            | <0.002                                                 | <0.015                                                          | <0.010                                                                     | E0.030                                                                      | <0.014                                                                    | <0.035                                                  | <0.011                                                                     | <0.050                                          |
| MAY      |                                                                    |                                                                               |                                                                   |                                                        |                                                                 |                                                                            |                                                                             |                                                                           |                                                         |                                                                            |                                                 |
| 09...    | E0.050                                                             | 0.180                                                                         | <0.018                                                            | <0.002                                                 | <0.015                                                          | 0.025                                                                      | <0.035                                                                      | E0.007                                                                    | <0.035                                                  | <0.011                                                                     | <0.050                                          |
| 21...    | <0.020                                                             | 0.540                                                                         | <0.018                                                            | <0.002                                                 | <0.015                                                          | 0.018                                                                      | <0.035                                                                      | <0.014                                                                    | <0.035                                                  | <0.011                                                                     | <0.050                                          |
| JUN      |                                                                    |                                                                               |                                                                   |                                                        |                                                                 |                                                                            |                                                                             |                                                                           |                                                         |                                                                            |                                                 |
| 03...    | <0.020                                                             | E1.30                                                                         | <0.018                                                            | <0.002                                                 | <0.015                                                          | <0.010                                                                     | <0.035                                                                      | 0.270                                                                     | <0.035                                                  | <0.011                                                                     | <0.050                                          |
| 18...    | 0.130                                                              | 0.140                                                                         | <0.018                                                            | <0.002                                                 | <0.015                                                          | 0.020                                                                      | 0.270                                                                       | 0.430                                                                     | <0.035                                                  | <0.011                                                                     | <0.050                                          |
| JUL      |                                                                    |                                                                               |                                                                   |                                                        |                                                                 |                                                                            |                                                                             |                                                                           |                                                         |                                                                            |                                                 |
| 03...    | 0.360                                                              | 0.170                                                                         | <0.018                                                            | <0.002                                                 | <0.015                                                          | 0.030                                                                      | 0.490                                                                       | 0.640                                                                     | <0.035                                                  | <0.011                                                                     | <0.050                                          |
| 18...    | 0.980                                                              | 0.280                                                                         | <0.018                                                            | <0.002                                                 | <0.015                                                          | <0.010                                                                     | E1.60                                                                       | E2.30                                                                     | <0.035                                                  | <0.011                                                                     | <0.050                                          |
| 29...    | 0.070                                                              | 0.040                                                                         | <0.018                                                            | <0.002                                                 | <0.015                                                          | <0.010                                                                     | 0.840                                                                       | E1.10                                                                     | <0.035                                                  | <0.011                                                                     | <0.050                                          |
| AUG      |                                                                    |                                                                               |                                                                   |                                                        |                                                                 |                                                                            |                                                                             |                                                                           |                                                         |                                                                            |                                                 |
| 13...    | <0.020                                                             | E0.020                                                                        | <0.018                                                            | <0.002                                                 | <0.015                                                          | 0.120                                                                      | <0.035                                                                      | E0.820                                                                    | <0.035                                                  | <0.011                                                                     | <0.050                                          |
| 29...    | <0.020                                                             | <0.035                                                                        | <0.018                                                            | <0.002                                                 | <0.015                                                          | 0.054                                                                      | 0.420                                                                       | 0.400                                                                     | <0.035                                                  | <0.011                                                                     | <0.050                                          |
| SEP      |                                                                    |                                                                               |                                                                   |                                                        |                                                                 |                                                                            |                                                                             |                                                                           |                                                         |                                                                            |                                                 |
| 09...    | <0.020                                                             | <0.035                                                                        | <0.018                                                            | <0.002                                                 | <0.015                                                          | 0.016                                                                      | 0.340                                                                       | 0.330                                                                     | <0.035                                                  | <0.011                                                                     | <0.050                                          |
| 16...    | <0.050                                                             | <0.040                                                                        | <0.018                                                            | <0.002                                                 | <0.015                                                          | 0.016                                                                      | 0.130                                                                       | 0.160                                                                     | <0.035                                                  | <0.011                                                                     | <0.050                                          |
|          |                                                                    |                                                                               |                                                                   |                                                        |                                                                 |                                                                            |                                                                             |                                                                           |                                                         |                                                                            |                                                 |
| DATE     | DICAMBA<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(38442) | 2,6-DI-<br>ETHYL<br>ANILINE<br>WAT FLT<br>0.7 U<br>TOTAL<br>(UG/L)<br>(82052) | DINOSB<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49301) | DNOC<br>WAT,FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49299) | ESFEN-<br>VAL-<br>ERATE,<br>WAT,FLT<br>REC<br>(UG/L)<br>(49298) | 1-NAPH<br>THOL,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49295) | NORFLUR<br>AZON,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49293) | PIC-<br>LORAM,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49291) | PIC-<br>LORAM<br>UNFILT<br>RECOVER<br>(UG/L)<br>(39720) | PRO-<br>PARGITE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82685) |                                                 |
| FEB 1996 |                                                                    |                                                                               |                                                                   |                                                        |                                                                 |                                                                            |                                                                             |                                                                           |                                                         |                                                                            |                                                 |
| 16...    | <0.035                                                             | --                                                                            | <0.003                                                            | <0.035                                                 | <0.035                                                          | <0.019                                                                     | <0.007                                                                      | <0.024                                                                    | <0.050                                                  | --                                                                         | <0.013                                          |
| 29...    | <0.035                                                             | --                                                                            | <0.003                                                            | <0.035                                                 | <0.035                                                          | <0.019                                                                     | <0.007                                                                      | <0.024                                                                    | <0.050                                                  | --                                                                         | <0.013                                          |
| MAR      |                                                                    |                                                                               |                                                                   |                                                        |                                                                 |                                                                            |                                                                             |                                                                           |                                                         |                                                                            |                                                 |
| 21...    | <0.035                                                             | --                                                                            | <0.003                                                            | <0.035                                                 | <0.035                                                          | <0.019                                                                     | <0.007                                                                      | 0.140                                                                     | <0.050                                                  | --                                                                         | <0.013                                          |
| APR      |                                                                    |                                                                               |                                                                   |                                                        |                                                                 |                                                                            |                                                                             |                                                                           |                                                         |                                                                            |                                                 |
| 04...    | <0.035                                                             | --                                                                            | <0.003                                                            | <0.035                                                 | <0.035                                                          | <0.019                                                                     | <0.007                                                                      | <0.024                                                                    | <0.050                                                  | --                                                                         | <0.013                                          |
| 18...    | <0.035                                                             | --                                                                            | <0.003                                                            | <0.035                                                 | <0.035                                                          | <0.019                                                                     | <0.007                                                                      | 0.200                                                                     | <0.050                                                  | --                                                                         | <0.013                                          |
| 24...    | <0.035                                                             | --                                                                            | <0.003                                                            | <0.035                                                 | <0.035                                                          | <0.019                                                                     | <0.007                                                                      | <0.024                                                                    | <0.050                                                  | --                                                                         | <0.013                                          |
| MAY      |                                                                    |                                                                               |                                                                   |                                                        |                                                                 |                                                                            |                                                                             |                                                                           |                                                         |                                                                            |                                                 |
| 09...    | <0.035                                                             | <0.010                                                                        | <0.003                                                            | <0.035                                                 | <0.035                                                          | <0.019                                                                     | <0.007                                                                      | <0.024                                                                    | <0.050                                                  | <0.010                                                                     | <0.013                                          |
| 21...    | <0.035                                                             | <0.010                                                                        | <0.003                                                            | <0.035                                                 | <0.035                                                          | <0.019                                                                     | <0.007                                                                      | E0.110                                                                    | <0.050                                                  | <0.010                                                                     | <0.013                                          |
| JUN      |                                                                    |                                                                               |                                                                   |                                                        |                                                                 |                                                                            |                                                                             |                                                                           |                                                         |                                                                            |                                                 |
| 03...    | <0.035                                                             | <0.010                                                                        | <0.003                                                            | <0.035                                                 | <0.035                                                          | <0.019                                                                     | <0.007                                                                      | <0.024                                                                    | <0.050                                                  | <0.010                                                                     | <0.013                                          |
| 18...    | <0.035                                                             | 0.020                                                                         | <0.003                                                            | <0.035                                                 | <0.035                                                          | <0.019                                                                     | <0.007                                                                      | <0.024                                                                    | <0.050                                                  | <0.010                                                                     | <0.013                                          |
| JUL      |                                                                    |                                                                               |                                                                   |                                                        |                                                                 |                                                                            |                                                                             |                                                                           |                                                         |                                                                            |                                                 |
| 03...    | <0.035                                                             | --                                                                            | <0.003                                                            | <0.035                                                 | <0.035                                                          | <0.019                                                                     | <0.007                                                                      | <0.024                                                                    | <0.050                                                  | --                                                                         | <0.013                                          |
| 18...    | <0.035                                                             | --                                                                            | <0.003                                                            | <0.035                                                 | <0.035                                                          | <0.019                                                                     | <0.007                                                                      | 0.120                                                                     | <0.050                                                  | --                                                                         | <0.013                                          |
| 29...    | <0.035                                                             | --                                                                            | <0.003                                                            | <0.035                                                 | <0.035                                                          | <0.019                                                                     | <0.007                                                                      | <0.024                                                                    | <0.050                                                  | --                                                                         | <0.013                                          |
| AUG      |                                                                    |                                                                               |                                                                   |                                                        |                                                                 |                                                                            |                                                                             |                                                                           |                                                         |                                                                            |                                                 |
| 13...    | <0.035                                                             | --                                                                            | <0.003                                                            | <0.035                                                 | <0.035                                                          | <0.019                                                                     | <0.007                                                                      | <0.024                                                                    | <0.050                                                  | --                                                                         | <0.013                                          |
| 29...    | <0.035                                                             | --                                                                            | <0.003                                                            | <0.035                                                 | <0.035                                                          | <0.019                                                                     | <0.007                                                                      | <0.024                                                                    | <0.050                                                  | --                                                                         | <0.013                                          |
| SEP      |                                                                    |                                                                               |                                                                   |                                                        |                                                                 |                                                                            |                                                                             |                                                                           |                                                         |                                                                            |                                                 |
| 09...    | <0.035                                                             | --                                                                            | <0.003                                                            | <0.035                                                 | <0.035                                                          | <0.019                                                                     | <0.007                                                                      | <0.024                                                                    | <0.050                                                  | --                                                                         | <0.013                                          |
| 16...    | <0.035                                                             | --                                                                            | <0.003                                                            | <0.035                                                 | <0.035                                                          | <0.019                                                                     | <0.007                                                                      | <0.024                                                                    | <0.050                                                  | --                                                                         | <0.013                                          |



07288650 BOGUE PHALIA NEAR LELAND, MS--Continued

## BED SEDIMENT DATA, JUNE 1995 TO SEPTEMBER 1996

| DATE              | CALCIUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34830)           | MAGNE-<br>SIUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34900)    | SODIUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34960)                   | POTAS-<br>SIUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34940)    | SULFUR<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34970)                      | PHOS-<br>PHORUS<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34935)            | ALUM-<br>INUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34790)                | ANTI-<br>MONY<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34795)                  | ARSENIC<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34800)                       | BARIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34805)                | BERYL-<br>LIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34810)                   | BISMUTH<br>BOT MAT<br><180UWS<br>FIELD<br>(UG/G)<br>(34816)                         |
|-------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| AUG 1995<br>22... | 1.0                                                                    | 0.96                                                                   | 0.54                                                                          | 1.7                                                                    | 0.06                                                                            | 0.09                                                                            | 7.4                                                                               | 0.7                                                                                | 9.9                                                                               | 670                                                                       | 2                                                                                    | <10                                                                                 |
| DATE              | CADMIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34825)            | CERIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34835)             | CHRO-<br>MIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34840)             | COBALT<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34845)             | COPPER<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34850)                      | EURO-<br>PIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34855)               | GALLIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34860)                       | GOLD<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34870)                           | HOLMIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34875)                       | IRON<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34880)                 | LANTHA-<br>NUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34885)                   | LEAD<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34890)                            |
| AUG 1995<br>22... | 0.4                                                                    | 77                                                                     | 78                                                                            | 12                                                                     | 30                                                                              | <2                                                                              | 16                                                                                | <8                                                                                 | <4                                                                                | 3.5                                                                       | 43                                                                                   | 14                                                                                  |
| DATE              | LITHIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34895)            | MANGA-<br>NESE<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34905)     | MERCURY<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34910)                   | MOLYB-<br>DENUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34915)    | NEODYM-<br>IUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34920)              | NICKEL<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34925)                      | NIOBIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34930)                       | SCAN-<br>DIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34945)                  | SELE-<br>NIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34950)                 | SILVER<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34955)                | STRON-<br>TIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34965)                   | TANTA-<br>LUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34975)                   |
| AUG 1995<br>22... | 40                                                                     | 610                                                                    | 0.03                                                                          | <2                                                                     | 36                                                                              | 31                                                                              | 16                                                                                | 12                                                                                 | 0.8                                                                               | 0.2                                                                       | 120                                                                                  | <40                                                                                 |
| DATE              | THORIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34980)            | TIN<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34985)                | TITA-<br>NIUM,<br>SED, BM<br>WS, <63U<br>DRY WGT<br>REC<br>PERCENT<br>(49274) | URANIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(35000)            | VANA-<br>DIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(35005)               | YTTER-<br>BIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(35015)              | YTTRIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(35010)                       | ZINC<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(35020)                           | CARBON,<br>ORGANIC<br>SED, BM<br>WS, <63U<br>DW, REC<br>(PER-<br>CENT)<br>(49266) | CARBON,<br>ORGANIC<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(G/KG)<br>(49271) | CARBON,<br>INORG,<br>SED, BM<br>WS, <63U<br>DW, REC<br>(PER-<br>CENT)<br>(49269)     | CARBON,<br>INORG,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(G/KG)<br>(49270)            |
| AUG 1995<br>22... | 13                                                                     | <10                                                                    | 0.360                                                                         | 4.0                                                                    | 130                                                                             | 2                                                                               | 24                                                                                | 110                                                                                | 0.12                                                                              | 8.10                                                                      | 1.36                                                                                 | 1.40                                                                                |
| DATE              | PCB,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49459)           | ALPHA-<br>BHC,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49338) | BETA-<br>BHC,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49339)         | ALDRIN,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49319)        | CIS-<br>CHLOR-<br>DANE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49320) | OXY-<br>CHLOR-<br>DANE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49318) | TRANS-<br>CHLOR-<br>DANE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49321) | CHLORO-<br>NEB,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49322)            | DCPA,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49324)                     | O, P'-<br>DDD,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49325)    | P, P'-<br>DDD,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49326)               | O, P'-<br>DDE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49327)              |
| AUG 1995<br>22... | <50                                                                    | <1.00                                                                  | <1.00                                                                         | <1.00                                                                  | <1.00                                                                           | <1.00                                                                           | <1.00                                                                             | <5.00                                                                              | <5.00                                                                             | 4.60                                                                      | 23.0                                                                                 | 1.10                                                                                |
| DATE              | P, P'-<br>DDE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49328) | O, P'-<br>DDT,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49329) | P, P'-<br>DDT,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49330)        | DIEL-<br>DRIN,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49331) | ENDO-<br>SULFAN<br>I,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49332)   | ENDRIN,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49335)                 | HEPTA-<br>CHLOR,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49341)          | HEPTA-<br>CHLOR<br>EPOXIDE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49342) | ISODRIN<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49344)                   | LINDANE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49345)           | METHOXY<br>CHLOR,<br>O, P'-,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49347) | METHOXY<br>CHLOR<br>P, P'-,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49346) |
| AUG 1995<br>22... | 54.0                                                                   | 2.20                                                                   | 5.80                                                                          | <1.00                                                                  | <1.00                                                                           | <2.00                                                                           | <1.00                                                                             | <1.00                                                                              | <1.00                                                                             | <1.00                                                                     | <5.00                                                                                | <5.00                                                                               |

07288650 BOGUE PHALIA NEAR LELAND, MS--Continued

BED SEDIMENT DATA, JUNE 1995 TO SEPTEMBER 1996

|                   | MIREX,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49348)                         | CIS-<br>NONA-<br>CHLOR,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49316)        | TRANS-<br>NONA-<br>CHLOR,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49317)     | CIS-<br>PER-<br>METHRIN<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49349)       | TRANS-<br>PER-<br>METHRIN<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49350)     | TOXA-<br>PHENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49351)                 | ACENAPH<br>THENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49429)              | ACENAPH<br>THYLENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49428)            | ACRI-<br>DINE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49430)                | PHENOL<br>C8-<br>ALKYL-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49424)        | ANTHRA-<br>CENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49434)                | 9,10-<br>ANTHRA-<br>QUINONE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49437)   |
|-------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| AUG 1995<br>22... | <1.00                                                                                  | <1.00                                                                                  | <1.00                                                                                 | <5.00                                                                                 | <5.00                                                                                 | <200                                                                                   | <50                                                                                   | E24                                                                                   | <50                                                                                  | <50                                                                                    | E10                                                                                    | <50                                                                                   |
|                   | AZO-<br>BENZENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49443)                | BENZ(A)<br>ANTHRA-<br>CENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49436)     | BENZOCIN-<br>NOLINE<br>BED MAT<br>WS, <2MM<br>REC<br>(UG/KG)<br>(49468)               | BENZOB-<br>FLUOR-<br>ANTHENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49458)  | BENZO K<br>FLUOR-<br>ANTHENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49397)  | BENZO(G<br>HI) PERY<br>LENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49408)    | BENZO<br>(A)<br>PYRENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49389)        | 2,2'-BI<br>QUINO-<br>LINE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49391)    | METHANE<br>2CHLORO<br>ETHOXY<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49401) | PHTHALA<br>TE, BIS2<br>ETHHEXL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49426) | 4-BROMO<br>PHNPHNL<br>ETHER<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49454)    | PHTHALA<br>TEBUTYL<br>BENZYL-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49427) |
| AUG 1995<br>22... | <50                                                                                    | E41                                                                                    | <50                                                                                   | E44                                                                                   | E13                                                                                   | E38                                                                                    | E27                                                                                   | <50                                                                                   | <50                                                                                  | E41                                                                                    | <50                                                                                    | <50                                                                                   |
|                   | CARBA-<br>ZOLE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49449)                 | M-CRE-<br>SOL, 4-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49422)   | NAPTHAL<br>ENE, 2-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49407) | PHENOL,<br>2CHLORO<br>BED MAT<br>WS, <2MM<br>DRY WGT<br>(UG/KG)<br>(49467)            | 4CHLORO<br>PHNPHN<br>LETHR<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49455)    | CHRY-<br>SENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49450)                  | P-<br>CRESOL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49451)                  | DIBENZ<br>(AH), AN<br>THRACEN<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49461) | THIOPH<br>ENE, DI-<br>BENZO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49452) | PHTHAL-<br>ATE,<br>DIBUTYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49381)     | BENZENE<br>O-DI-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49439)    | BENZENE<br>M-DI-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49441)   |
| AUG 1995<br>22... | <50                                                                                    | <50                                                                                    | <50                                                                                   | <50                                                                                   | <50                                                                                   | 56                                                                                     | <50                                                                                   | <50                                                                                   | <50                                                                                  | E26                                                                                    | <50                                                                                    | <50                                                                                   |
|                   | BENZENE<br>P-DI-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49442)    | PHTHAL-<br>ATE, D<br>IETHYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49383)    | NAPTHAL<br>ENE, 12<br>DIMETHL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49403) | NAPTHAL<br>ENE, 16<br>DIMETHL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49404) | NAPTHAL<br>ENE, 26<br>DIMETHL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49406) | 3,5-<br>XYLENOL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49421)                | PHTHAL-<br>ATE, DI-<br>METHYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49384) | TOLUENE<br>2,4-DI-<br>NITRO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49395)  | TOLUENE<br>2,6-DI-<br>NITRO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49396) | PHTHAL<br>ATE, D<br>IOCTYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49382)     | NAPTHAL<br>ENE, 2-<br>ETHYL-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49948)   | FLUOR-<br>ANTHENE<br>BED MAT<br>WS, <2MM<br>DRY WGT<br>REC<br>(UG/KG)<br>(49466)      |
| AUG 1995<br>22... | <50                                                                                    | E18                                                                                    | <50                                                                                   | <50                                                                                   | E30                                                                                   | <50                                                                                    | <50                                                                                   | <50                                                                                   | <50                                                                                  | <50                                                                                    | <50.0                                                                                  | 92                                                                                    |
|                   | 9H-FLU-<br>ORENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49399)               | BENZENE<br>HEXA-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49343)    | INDENO<br>123-CD<br>PYRENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49390)    | ISOPHOR<br>ONE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49400)                | ISO-<br>QUINO-<br>LINE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49394)       | ANTHRA-<br>CENE, 2-<br>METHYL-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49435) | 9H-FLU-<br>ORENE,<br>1METHYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49398)  | PHENAN<br>THRENE<br>1METHYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49410)   | PYRENE,<br>1-<br>METHYL,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49388)     | 4HCYPEN<br>THRENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49411)              | NAPHTH-<br>ALENE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49402)              | BENZENE<br>NITRO-<br>BED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49444)             |
| AUG 1995<br>22... | E14                                                                                    | <50.0                                                                                  | E34                                                                                   | <50                                                                                   | <50                                                                                   | E19                                                                                    | <50                                                                                   | E10                                                                                   | <50                                                                                  | E16                                                                                    | <50                                                                                    | <50                                                                                   |
|                   | DPROPYL<br>AMINE, N<br>NITROSO<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49431) | DIPHNYL<br>AMINE, N<br>NITROSO<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49433) | PENTA-<br>CHLORO-<br>ANISOLE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49460)  | BENZENE<br>PNTCHLR<br>NITRO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49446)  | PHENAN<br>THRENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49409)              | PHENAN-<br>THRI-<br>DINE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49393)       | PHENOL<br>PYRENE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49413)             | PYRENE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49387)                       | QUINO-<br>LINE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49392)              | BENZENE<br>124TRI-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49438)  | NAPTHAL<br>ENE, 236<br>TRIMETH<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49405) |                                                                                       |
| AUG 1995<br>22... | <50                                                                                    | <50                                                                                    | <50                                                                                   | <50                                                                                   | E31                                                                                   | <50                                                                                    | E34                                                                                   | 67                                                                                    | <50                                                                                  | <50                                                                                    | <50                                                                                    |                                                                                       |

## YAZOO RIVER BASIN

07288650 BOGUE PHALIA NEAR LELAND, MS--Continued

## FISH LIVER DATA, JUNE 1995 TO SEPTEMBER 1996

| DATE              | ALUMI-<br>NUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49237) | ANTI-<br>MONY,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49246) | ARSENIC<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49247) | BARIUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49238) | BERYL-<br>LIUM-,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49248) | BORON,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49239) | CADMIUM<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49249) | CHROM-<br>IUM-,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49240) | COBALT,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49250) | COPPER,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49241) | IRON,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49242) |
|-------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|
| AUG 1995<br>22... | 47                                                                         | <0.2                                                                       | 0.5                                                                 | 0.7                                                                 | <0.2                                                                         | 0.4                                                                | 2.9                                                                 | <0.5                                                                        | <0.2                                                                | 89                                                                  | 580                                                               |

| DATE              | LEAD,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49251) | MANGAN-<br>ESE,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49243) | MERCURY<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49258) | MOLYB-<br>DENUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49252) | NICKEL,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49253) | SELEN-<br>IUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49254) | SILVER,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49255) | STRON-<br>TIUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49244) | URANIUM<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49257) | VANA-<br>DIUM<br>BIO TIS<br>LIVER<br>DRY WGT<br>REC<br>(UG/G)<br>(49465) | ZINC,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49245) |
|-------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------|
| AUG 1995<br>22... | <0.2                                                              | 4.4                                                                         | 0.2                                                                 | 1.0                                                                          | 0.3                                                                 | 6.2                                                                        | 0.6                                                                 | 0.6                                                                         | <0.2                                                                | 1.0                                                                      | 600                                                               |

## FISH TISSUE DATA, JUNE 1995 TO SEPTEMBER 1996

| DATE              | PCB,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49354) | ALPHA-<br>BHC,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49366) | BETA-<br>BHC,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49365) | DELTA-<br>BHC,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49364) | ALDRIN,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49353) | CIS-<br>CHLOR-<br>DANE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49380) | OXY-<br>CHLOR<br>DANE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49357) | TRANS-<br>CHLOR-<br>DANE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49379) | DCPA,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49378) | O, P'-<br>DDD,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49374) |
|-------------------|-----------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------|
| AUG 1995<br>22... | 52.0                                                      | <5.00                                                               | <10.0                                                              | <11.0                                                               | <5.00                                                        | <5.00                                                                        | <5.00                                                                       | <6.00                                                                          | <5.00                                                      | 79.0                                                                |
| 22...             | 52.0                                                      | <5.00                                                               | <12.0                                                              | <5.00                                                               | <5.00                                                        | <5.00                                                                        | <5.00                                                                       | <5.00                                                                          | <5.00                                                      | 68.0                                                                |

| DATE              | P, P'-<br>DDD,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49375) | O, P'-<br>DDE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49373) | P, P'-<br>DDE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49372) | O, P'-<br>DDT,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49377) | P, P'-<br>DDT,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49376) | DIEL-<br>DRIN,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49371) | ENDRIN,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49370) | HEPTA-<br>CHLOR,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49369) | HEPTA-<br>CHLOR<br>EPOXIDE<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49368) | LINDANE<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49363) |
|-------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------|
| AUG 1995<br>22... | E850                                                                | 16.0                                                                | 5000                                                                | 56.0                                                                | 87.0                                                                | 19.0                                                                | <220                                                         | <13.0                                                                 | <5.00                                                                           | <5.00                                                        |
| 22...             | E680                                                                | 19.0                                                                | E5100                                                               | 53.0                                                                | 520                                                                 | 16.0                                                                | <200                                                         | <5.00                                                                 | <5.00                                                                           | <5.00                                                        |

| DATE              | LIPIDS,<br>BIOTA,<br>WH ORG<br>WW, REC<br>PERCENT<br>(49289) | METHOXY<br>CHLOR,<br>O, P'-,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49362) | METHOXY<br>CHLOR,<br>P, P'-,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49361) | MIREX,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49360) | CIS-<br>NONA-<br>CHLOR,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49359) | TRANS-<br>NONA-<br>CHLOR,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49358) | TOXA-<br>PHENE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49355) | BENZENE<br>HEXA-<br>CHLORO-<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49367) | PENTA<br>CHLORO<br>ANISOLE<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49356) |
|-------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| AUG 1995<br>22... | 4.30                                                         | <12.0                                                                             | <9.00                                                                             | 5.10                                                        | <5.00                                                                        | <20.0                                                                          | 1400                                                                 | <5.00                                                                            | <5.00                                                                           |
| 22...             | 4.10                                                         | <15.0                                                                             | <12.0                                                                             | 6.70                                                        | <5.00                                                                        | <26.0                                                                          | 870                                                                  | <5.00                                                                            | <5.00                                                                           |

07288955 YAZOO RIVER BELOW STEELE BAYOU NEAR LONG LAKE, MS  
(National Water-Quality Assessment station)

LOCATION.--Lat 32°26'40", long 90°54'00", in SW 1/4 SE 1/4 SE 1/4 sec. 16, T.17 N., R.3 E., Washington Meridian, Issaquena County, Hydrologic Unit 08030208, on right bank at downstream abandoned Eagle Lake Ferries site, 1.5 mi downstream from Steele Bayou, 3.0 mi northwest of Long Lake, and at mile 8.2.

DRAINAGE AREA.--13,355 mi<sup>2</sup>, approximately, U.S. Army Corps of Engineers.

PERIOD OF RECORD.--Water years 1995 to current year.

REMARKS.--Site affected by backwater from the Mississippi River. Little Sunflower River Drainage Structure WY96 closure dates: Oct. 1-Dec. 21, Dec. 28-Mar. 22, May 2-28, Jul. 8-Sep. 30 (furnished by U.S. Army Corps of Engineers). Steele Bayou Drainage Structure WY96 closure dates: Feb. 6-8, Mar. 7-10, Mar. 12-18, May 5-Jun. 25 (furnished by U.S. Army Corps of Engineers). In water years 1961-62 and 1972-93, data were collected 8.5 mi upstream (station 07288800).

## WATER QUALITY DATA, AUGUST 1995 TO SEPTEMBER 1996

| DATE     | TIME | DEPTH<br>AT<br>SAMPLE<br>LOC-<br>ATION,<br>TOTAL<br>(FEET)<br>(81903) | SAMPLE<br>LOC-<br>ATION,<br>SECTION<br>(FT FM<br>R BK)<br>(72103) | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L)<br>(80154) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM<br>(70331) |
|----------|------|-----------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------------|
| AUG 1995 |      |                                                                       |                                                                   |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                       |                                                                          |
| 23...    | 1400 | --                                                                    | --                                                                | --                                                                    | 146                                                          | 7.1                                                                  | 32.5                                            | 5.0                                            | --                                                    | --                                                                       |
| FEB 1996 |      |                                                                       |                                                                   |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                       |                                                                          |
| 14...    | 1115 | --                                                                    | --                                                                | 24600                                                                 | 95                                                           | 6.4                                                                  | 8.5                                             | --                                             | 239                                                   | 98                                                                       |
| 26...    | 1100 | --                                                                    | --                                                                | 8350                                                                  | 147                                                          | 6.8                                                                  | 14.0                                            | 8.9                                            | 153                                                   | 99                                                                       |
| MAR      |      |                                                                       |                                                                   |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                       |                                                                          |
| 20...    | 1245 | --                                                                    | --                                                                | 12800                                                                 | 141                                                          | 7.1                                                                  | 13.0                                            | 9.3                                            | 99                                                    | 99                                                                       |
| APR      |      |                                                                       |                                                                   |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                       |                                                                          |
| 01...    | 1130 | --                                                                    | --                                                                | 17000                                                                 | 83                                                           | 6.7                                                                  | 14.0                                            | 7.7                                            | 384                                                   | 99                                                                       |
| 19...    | 1230 | --                                                                    | --                                                                | 16700                                                                 | 110                                                          | 6.2                                                                  | 18.0                                            | 7.2                                            | 837                                                   | 99                                                                       |
| MAY      |      |                                                                       |                                                                   |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                       |                                                                          |
| 06...    | 1130 | --                                                                    | --                                                                | 4770                                                                  | 88                                                           | 6.3                                                                  | 23.5                                            | 5.4                                            | 226                                                   | 98                                                                       |
| 20...    | 1010 | --                                                                    | --                                                                | --                                                                    | 143                                                          | 6.8                                                                  | 26.0                                            | 4.4                                            | 71                                                    | 95                                                                       |
| JUN      |      |                                                                       |                                                                   |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                       |                                                                          |
| 04...    | 1322 | 1.00                                                                  | 50.0                                                              | --                                                                    | 175                                                          | 6.5                                                                  | 26.5                                            | 2.2                                            | --                                                    | --                                                                       |
| 04...    | 1323 | 50.0                                                                  | 50.0                                                              | --                                                                    | 248                                                          | 6.9                                                                  | 25.5                                            | 3.1                                            | --                                                    | --                                                                       |
| 04...    | 1324 | 1.00                                                                  | 100.0                                                             | --                                                                    | 176                                                          | 6.7                                                                  | 27.0                                            | 2.4                                            | --                                                    | --                                                                       |
| 04...    | 1325 | 60.0                                                                  | 100.0                                                             | --                                                                    | 224                                                          | 6.8                                                                  | 25.5                                            | 2.5                                            | --                                                    | --                                                                       |
| 04...    | 1326 | 1.00                                                                  | 150.0                                                             | --                                                                    | 177                                                          | 6.7                                                                  | 27.5                                            | 2.1                                            | --                                                    | --                                                                       |
| 04...    | 1327 | 60.0                                                                  | 150.0                                                             | --                                                                    | 206                                                          | 6.7                                                                  | 25.5                                            | 2.2                                            | --                                                    | --                                                                       |
| 04...    | 1328 | 1.00                                                                  | 200.0                                                             | --                                                                    | 176                                                          | 6.7                                                                  | 25.5                                            | 2.2                                            | --                                                    | --                                                                       |
| 04...    | 1329 | 50.0                                                                  | 200.0                                                             | --                                                                    | 220                                                          | 6.7                                                                  | 25.5                                            | 2.2                                            | --                                                    | --                                                                       |
| 04...    | 1330 | --                                                                    | --                                                                | --                                                                    | 200                                                          | 6.8                                                                  | 26.0                                            | 2.2                                            | 74                                                    | 88                                                                       |
| 04...    | 1331 | 1.00                                                                  | 250.0                                                             | --                                                                    | 177                                                          | 6.7                                                                  | 25.5                                            | 2.2                                            | --                                                    | --                                                                       |
| 04...    | 1332 | 40.0                                                                  | 250.0                                                             | --                                                                    | 221                                                          | 6.7                                                                  | 26.0                                            | 2.3                                            | --                                                    | --                                                                       |
| 04...    | 1333 | 1.00                                                                  | 300.0                                                             | --                                                                    | 178                                                          | 6.8                                                                  | 26.0                                            | 2.3                                            | --                                                    | --                                                                       |
| 04...    | 1334 | 30.0                                                                  | 300.0                                                             | --                                                                    | 228                                                          | 6.8                                                                  | 25.0                                            | 2.3                                            | --                                                    | --                                                                       |
| 17...    | 1130 | --                                                                    | --                                                                | --                                                                    | 120                                                          | 6.4                                                                  | 29.5                                            | 3.5                                            | 105                                                   | 94                                                                       |
| 20...    | 1600 | --                                                                    | --                                                                | --                                                                    | 111                                                          | 6.5                                                                  | 29.0                                            | 3.3                                            | --                                                    | --                                                                       |
| JUL      |      |                                                                       |                                                                   |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                       |                                                                          |
| 01...    | 1200 | --                                                                    | --                                                                | 24400                                                                 | 160                                                          | 7.0                                                                  | 29.0                                            | 1.0                                            | 57                                                    | 95                                                                       |
| 16...    | 1200 | --                                                                    | --                                                                | 7640                                                                  | 227                                                          | 6.5                                                                  | 30.5                                            | 4.2                                            | 117                                                   | 98                                                                       |
| 18...    | 1700 | --                                                                    | --                                                                | --                                                                    | 254                                                          | 7.1                                                                  | 31.0                                            | 4.3                                            | --                                                    | --                                                                       |
| 30...    | 1100 | --                                                                    | --                                                                | 10100                                                                 | 325                                                          | 7.2                                                                  | 28.0                                            | 3.3                                            | 350                                                   | 98                                                                       |
| 30...    | 1130 | 0.50                                                                  | 30.0                                                              | --                                                                    | 363                                                          | 7.0                                                                  | 28.5                                            | 2.9                                            | --                                                    | --                                                                       |
| 30...    | 1135 | 10.0                                                                  | 30.0                                                              | --                                                                    | 315                                                          | 7.1                                                                  | 27.5                                            | 2.3                                            | --                                                    | --                                                                       |
| 30...    | 1137 | 0.50                                                                  | 50.0                                                              | --                                                                    | 379                                                          | 7.2                                                                  | 29.0                                            | 3.5                                            | --                                                    | --                                                                       |
| 30...    | 1139 | 25.0                                                                  | 50.0                                                              | --                                                                    | 270                                                          | 7.1                                                                  | 27.0                                            | 2.0                                            | --                                                    | --                                                                       |
| 30...    | 1140 | 0.50                                                                  | 70.0                                                              | --                                                                    | 377                                                          | 7.2                                                                  | 29.0                                            | 3.3                                            | --                                                    | --                                                                       |
| 30...    | 1141 | 35.0                                                                  | 70.0                                                              | --                                                                    | 261                                                          | 7.2                                                                  | 26.5                                            | 1.9                                            | --                                                    | --                                                                       |
| 30...    | 1142 | 0.50                                                                  | 90.0                                                              | --                                                                    | 373                                                          | 7.2                                                                  | 29.0                                            | 3.2                                            | --                                                    | --                                                                       |
| 30...    | 1143 | 35.0                                                                  | 90.0                                                              | --                                                                    | 255                                                          | 1.7                                                                  | 26.5                                            | 1.7                                            | --                                                    | --                                                                       |
| 30...    | 1144 | 0.50                                                                  | 110.0                                                             | --                                                                    | 382                                                          | 7.2                                                                  | 29.0                                            | 3.5                                            | --                                                    | --                                                                       |
| 30...    | 1145 | 35.5                                                                  | 110.0                                                             | --                                                                    | 265                                                          | 7.2                                                                  | 26.5                                            | 0.2                                            | --                                                    | --                                                                       |
| 30...    | 1146 | 0.50                                                                  | 130.0                                                             | --                                                                    | 380                                                          | 7.3                                                                  | 29.0                                            | 3.1                                            | --                                                    | --                                                                       |
| 30...    | 1147 | 35.0                                                                  | 130.0                                                             | --                                                                    | 265                                                          | 7.2                                                                  | 26.5                                            | 0.4                                            | --                                                    | --                                                                       |
| 30...    | 1150 | 0.50                                                                  | 150.0                                                             | --                                                                    | 380                                                          | 7.3                                                                  | 29.0                                            | 3.3                                            | --                                                    | --                                                                       |
| 30...    | 1152 | 35.5                                                                  | 150.0                                                             | --                                                                    | 249                                                          | 7.3                                                                  | 26.5                                            | 1.6                                            | --                                                    | --                                                                       |
| 30...    | 1155 | 0.50                                                                  | 170.0                                                             | --                                                                    | 379                                                          | 7.3                                                                  | 29.0                                            | 3.7                                            | --                                                    | --                                                                       |
| 30...    | 1157 | 35.5                                                                  | 170.0                                                             | --                                                                    | 248                                                          | 7.3                                                                  | 26.5                                            | 1.7                                            | --                                                    | --                                                                       |
| 30...    | 1200 | 0.50                                                                  | 190.0                                                             | --                                                                    | 379                                                          | 7.3                                                                  | 29.0                                            | 3.8                                            | --                                                    | --                                                                       |
| 30...    | 1210 | 25.0                                                                  | 190.0                                                             | --                                                                    | 297                                                          | 7.3                                                                  | 27.5                                            | 2.3                                            | --                                                    | --                                                                       |
| 30...    | 1212 | 0.50                                                                  | 210.0                                                             | --                                                                    | 373                                                          | 7.3                                                                  | 29.0                                            | 3.5                                            | --                                                    | --                                                                       |
| 30...    | 1215 | 15.0                                                                  | 210.0                                                             | --                                                                    | 362                                                          | 7.3                                                                  | 29.0                                            | 3.0                                            | --                                                    | --                                                                       |
| 31...    | 1015 | --                                                                    | --                                                                | --                                                                    | 255                                                          | 7.0                                                                  | 28.0                                            | 3.1                                            | --                                                    | --                                                                       |
| AUG      |      |                                                                       |                                                                   |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                       |                                                                          |
| 12...    | 1045 | --                                                                    | --                                                                | 9410                                                                  | 172                                                          | 7.1                                                                  | 30.0                                            | --                                             | 90                                                    | 97                                                                       |
| 30...    | 1100 | --                                                                    | --                                                                | 8390                                                                  | 210                                                          | 7.1                                                                  | 28.5                                            | 5.5                                            | 145                                                   | 96                                                                       |
| 30...    | 1109 | 1.00                                                                  | 100.0                                                             | --                                                                    | 199                                                          | 7.2                                                                  | 28.5                                            | 5.6                                            | --                                                    | --                                                                       |
| 30...    | 1110 | 18.0                                                                  | 100.0                                                             | --                                                                    | 201                                                          | 7.1                                                                  | 28.5                                            | 5.5                                            | --                                                    | --                                                                       |
| 30...    | 1111 | 1.00                                                                  | 300.0                                                             | --                                                                    | 201                                                          | 7.1                                                                  | 28.5                                            | 5.7                                            | --                                                    | --                                                                       |
| 30...    | 1112 | 30.0                                                                  | 300.0                                                             | --                                                                    | 224                                                          | 7.1                                                                  | 28.5                                            | 5.4                                            | --                                                    | --                                                                       |
| 30...    | 1113 | 1.00                                                                  | 300.0                                                             | --                                                                    | 225                                                          | 7.2                                                                  | 28.5                                            | 5.8                                            | --                                                    | --                                                                       |
| 30...    | 1114 | 15.0                                                                  | 300.0                                                             | --                                                                    | 229                                                          | 7.2                                                                  | 28.5                                            | 5.4                                            | --                                                    | --                                                                       |
| SEP      |      |                                                                       |                                                                   |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                       |                                                                          |
| 04...    | 1155 | --                                                                    | --                                                                | --                                                                    | 153                                                          | 5.7                                                                  | 27.0                                            | 6.7                                            | --                                                    | --                                                                       |
| 04...    | 1720 | --                                                                    | --                                                                | 7680                                                                  | 164                                                          | 6.8                                                                  | 27.5                                            | 6.6                                            | 184                                                   | 96                                                                       |
| 17...    | 1145 | --                                                                    | --                                                                | 10500                                                                 | --                                                           | 7.0                                                                  | 27.5                                            | 6.1                                            | 248                                                   | 99                                                                       |
| 17...    | 1210 | 0.50                                                                  | 150.0                                                             | --                                                                    | 138                                                          | --                                                                   | 27.5                                            | 6.2                                            | --                                                    | --                                                                       |
| 17...    | 1213 | 0.50                                                                  | 50.0                                                              | --                                                                    | 167                                                          | 7.0                                                                  | 27.0                                            | 6.1                                            | --                                                    | --                                                                       |

## YAZOO RIVER BASIN

07288955 YAZOO RIVER BELOW STEELE BAYOU NEAR LONG LAKE, MS--Continued

## WATER QUALITY DATA, AUGUST 1995 TO SEPTEMBER 1996

| DATE     | TIME | COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625) | E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633) | CALCIUM DIS-SOLVED (MG/L AS CA) (00915) | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925) | SODIUM, DIS-SOLVED (MG/L AS NA) (00930) | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935) | BICAR-BONATE WATER DIS IT FIELD HCO3 (MG/L AS) (00453) | ALKA-LINITY WAT DIS TOT IT FIELD CACO3 (MG/L AS) (39086) |
|----------|------|-----------------------------------------------------|---------------------------------------------------------|-----------------------------------------|---------------------------------------------|-----------------------------------------|--------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|
| FEB 1996 |      |                                                     |                                                         |                                         |                                             |                                         |                                            |                                                        |                                                          |
| 14...    | 1115 | 470                                                 | 140                                                     | 7.5                                     | 2.7                                         | 5.8                                     | 2.7                                        | 30                                                     | 24                                                       |
| 26...    | 1100 | K52                                                 | K25                                                     | 12                                      | 4.1                                         | 7.8                                     | 2.9                                        | 52                                                     | 43                                                       |
| MAR      |      |                                                     |                                                         |                                         |                                             |                                         |                                            |                                                        |                                                          |
| 20...    | 1245 | --                                                  | --                                                      | 10                                      | 3.6                                         | 8.2                                     | 2.4                                        | 46                                                     | 37                                                       |
| APR      |      |                                                     |                                                         |                                         |                                             |                                         |                                            |                                                        |                                                          |
| 01...    | 1130 | 63                                                  | 97                                                      | 7.1                                     | 2.4                                         | 5.2                                     | 2.6                                        | 31                                                     | 25                                                       |
| 19...    | 1230 | --                                                  | --                                                      | 9.1                                     | 3.0                                         | 5.6                                     | 3.4                                        | 40                                                     | 33                                                       |
| MAY      |      |                                                     |                                                         |                                         |                                             |                                         |                                            |                                                        |                                                          |
| 06...    | 1130 | --                                                  | --                                                      | 11                                      | 3.7                                         | 6.2                                     | 3.0                                        | 43                                                     | 35                                                       |
| 20...    | 1010 | --                                                  | --                                                      | 29                                      | 8.4                                         | 11                                      | 3.3                                        | 89                                                     | 73                                                       |
| JUN      |      |                                                     |                                                         |                                         |                                             |                                         |                                            |                                                        |                                                          |
| 04...    | 1330 | --                                                  | --                                                      | 16                                      | 5.4                                         | 9.7                                     | 3.2                                        | 78                                                     | 64                                                       |
| 17...    | 1130 | --                                                  | --                                                      | 11                                      | 3.6                                         | 6.3                                     | 3.3                                        | 48                                                     | 39                                                       |
| JUL      |      |                                                     |                                                         |                                         |                                             |                                         |                                            |                                                        |                                                          |
| 01...    | 1200 | --                                                  | --                                                      | 15                                      | 4.7                                         | 8.1                                     | 4.3                                        | 69                                                     | 57                                                       |
| 16...    | 1200 | --                                                  | --                                                      | 23                                      | 8.3                                         | 12                                      | 3.5                                        | 122                                                    | 100                                                      |
| 30...    | 1100 | --                                                  | --                                                      | 30                                      | 9.9                                         | 18                                      | 3.8                                        | 142                                                    | 117                                                      |
| AUG      |      |                                                     |                                                         |                                         |                                             |                                         |                                            |                                                        |                                                          |
| 12...    | 1045 | --                                                  | --                                                      | 15                                      | 5.2                                         | 8.6                                     | 3.2                                        | 79                                                     | 65                                                       |
| 30...    | 1100 | --                                                  | --                                                      | 18                                      | 6.2                                         | 11                                      | 3.0                                        | 104                                                    | 86                                                       |
| SEP      |      |                                                     |                                                         |                                         |                                             |                                         |                                            |                                                        |                                                          |
| 04...    | 1720 | --                                                  | --                                                      | 15                                      | 5.1                                         | 8.6                                     | 3.0                                        | 71                                                     | 58                                                       |
| 17...    | 1145 | --                                                  | --                                                      | 15                                      | 4.8                                         | 7.9                                     | 2.6                                        | 67                                                     | 55                                                       |

| DATE     | SULFATE DIS-SOLVED (MG/L AS SO4) (00945) | 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) | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625) |
|----------|------------------------------------------|--------------------------------------------|-------------------------------------------|-------------------------------------------|---------------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|--------------------------------------------------------|
| FEB 1996 |                                          |                                            |                                           |                                           |                                                         |                                                   |                                                   |                                                   |                                                        |
| 14...    | 8.9                                      | 5.2                                        | <0.10                                     | 7.8                                       | 66                                                      | 0.020                                             | 0.460                                             | 0.090                                             | 1.5                                                    |
| 26...    | 10                                       | 6.3                                        | <0.10                                     | 8.9                                       | 97                                                      | 0.020                                             | 0.480                                             | 0.110                                             | 1.5                                                    |
| MAR      |                                          |                                            |                                           |                                           |                                                         |                                                   |                                                   |                                                   |                                                        |
| 20...    | 10                                       | 6.8                                        | 0.10                                      | 8.5                                       | 83                                                      | 0.020                                             | 0.580                                             | 0.100                                             | 0.70                                                   |
| APR      |                                          |                                            |                                           |                                           |                                                         |                                                   |                                                   |                                                   |                                                        |
| 01...    | 7.1                                      | 4.0                                        | <0.10                                     | 6.2                                       | 67                                                      | 0.020                                             | 0.740                                             | 0.110                                             | 1.5                                                    |
| 19...    | 7.0                                      | 4.8                                        | 0.30                                      | 6.6                                       | 71                                                      | --                                                | 1.20                                              | --                                                | --                                                     |
| MAY      |                                          |                                            |                                           |                                           |                                                         |                                                   |                                                   |                                                   |                                                        |
| 06...    | 12                                       | 5.9                                        | 0.10                                      | 6.4                                       | 88                                                      | <0.010                                            | 0.800                                             | 0.020                                             | 1.1                                                    |
| 20...    | 31                                       | 11                                         | 0.20                                      | 6.6                                       | 169                                                     | 0.020                                             | 1.10                                              | 0.020                                             | 0.50                                                   |
| JUN      |                                          |                                            |                                           |                                           |                                                         |                                                   |                                                   |                                                   |                                                        |
| 04...    | 11                                       | 8.3                                        | 0.10                                      | 7.7                                       | 135                                                     | <0.010                                            | 0.520                                             | 0.060                                             | 0.70                                                   |
| 17...    | 7.1                                      | 4.6                                        | 0.20                                      | 8.5                                       | 71                                                      | <0.010                                            | 0.760                                             | 0.100                                             | 0.60                                                   |
| JUL      |                                          |                                            |                                           |                                           |                                                         |                                                   |                                                   |                                                   |                                                        |
| 01...    | 8.2                                      | 6.0                                        | 0.20                                      | 8.0                                       | 110                                                     | 0.010                                             | 0.310                                             | 0.050                                             | 1.2                                                    |
| 16...    | 12                                       | 6.6                                        | 0.20                                      | 10                                        | 143                                                     | 0.030                                             | 0.430                                             | 0.140                                             | 0.90                                                   |
| 30...    | 18                                       | 14                                         | 0.20                                      | 9.2                                       | 174                                                     | 0.100                                             | 0.680                                             | 0.050                                             | 0.80                                                   |
| AUG      |                                          |                                            |                                           |                                           |                                                         |                                                   |                                                   |                                                   |                                                        |
| 12...    | 9.2                                      | 5.8                                        | 0.10                                      | 7.7                                       | 107                                                     | 0.020                                             | 0.630                                             | 0.030                                             | 1.1                                                    |
| 30...    | 12                                       | 8.9                                        | 0.10                                      | 7.8                                       | 125                                                     | 0.020                                             | 0.190                                             | 0.050                                             | 0.50                                                   |
| SEP      |                                          |                                            |                                           |                                           |                                                         |                                                   |                                                   |                                                   |                                                        |
| 04...    | 10                                       | 6.1                                        | 0.10                                      | 7.4                                       | 96                                                      | 0.010                                             | 0.310                                             | 0.020                                             | 0.60                                                   |
| 17...    | 11                                       | 6.4                                        | 0.20                                      | 6.0                                       | 97                                                      | 0.010                                             | 0.160                                             | 0.030                                             | 0.60                                                   |

07288955 YAZOO RIVER BELOW STEELE BAYOU NEAR LONG LAKE, MS--Continued

## WATER QUALITY DATA, AUGUST 1995 TO SEPTEMBER 1996

| DATE     | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>DIS.<br>(MG/L<br>AS N)<br>(00623) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | 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) | 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) | CARBON,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS C)<br>(00681) | CARBON,<br>ORGANIC<br>SUS-<br>PENDE<br>TOTAL<br>(MG/L<br>AS C)<br>(00689) |
|----------|-------------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------------|
| FEB 1996 |                                                                               |                                                       |                                                                |                                                                          |                                                       |                                                                 |                                                                   |                                                                           |
| 14...    | 0.90                                                                          | 0.320                                                 | 0.020                                                          | 0.030                                                                    | 21                                                    | 9.0                                                             | 6.4                                                               | 1.0                                                                       |
| 26...    | 0.90                                                                          | 0.290                                                 | 0.070                                                          | 0.030                                                                    | 31                                                    | 30                                                              | 5.9                                                               | 0.80                                                                      |
| MAR      |                                                                               |                                                       |                                                                |                                                                          |                                                       |                                                                 |                                                                   |                                                                           |
| 20...    | 0.40                                                                          | 0.190                                                 | 0.040                                                          | 0.040                                                                    | 38                                                    | 10                                                              | 5.5                                                               | 2.2                                                                       |
| APR      |                                                                               |                                                       |                                                                |                                                                          |                                                       |                                                                 |                                                                   |                                                                           |
| 01...    | 0.70                                                                          | 0.430                                                 | 0.060                                                          | 0.040                                                                    | 65                                                    | 7.0                                                             | 5.4                                                               | 5.5                                                                       |
| 19...    | --                                                                            | --                                                    | --                                                             | --                                                                       | 81                                                    | 12                                                              | 6.3                                                               | 2.5                                                                       |
| MAY      |                                                                               |                                                       |                                                                |                                                                          |                                                       |                                                                 |                                                                   |                                                                           |
| 06...    | 0.50                                                                          | 0.390                                                 | 0.050                                                          | 0.050                                                                    | 60                                                    | 10                                                              | 6.2                                                               | 4.2                                                                       |
| 20...    | 0.30                                                                          | 0.160                                                 | 0.080                                                          | 0.060                                                                    | 12                                                    | 21                                                              | 5.2                                                               | 1.2                                                                       |
| JUN      |                                                                               |                                                       |                                                                |                                                                          |                                                       |                                                                 |                                                                   |                                                                           |
| 04...    | 0.40                                                                          | 0.200                                                 | 0.070                                                          | 0.060                                                                    | 20                                                    | 33                                                              | 4.6                                                               | 0.90                                                                      |
| 17...    | 0.30                                                                          | 0.250                                                 | 0.110                                                          | 0.050                                                                    | 430                                                   | 28                                                              | 5.7                                                               | 1.5                                                                       |
| JUL      |                                                                               |                                                       |                                                                |                                                                          |                                                       |                                                                 |                                                                   |                                                                           |
| 01...    | 1.1                                                                           | 0.180                                                 | 0.100                                                          | 0.100                                                                    | 79                                                    | 140                                                             | 9.8                                                               | 1.4                                                                       |
| 16...    | 0.40                                                                          | 0.220                                                 | 0.040                                                          | 0.050                                                                    | 10                                                    | 300                                                             | 4.8                                                               | 1.8                                                                       |
| 30...    | 0.40                                                                          | 0.160                                                 | 0.080                                                          | 0.090                                                                    | 74                                                    | 7.0                                                             | 5.1                                                               | 3.0                                                                       |
| AUG      |                                                                               |                                                       |                                                                |                                                                          |                                                       |                                                                 |                                                                   |                                                                           |
| 12...    | 0.90                                                                          | 0.140                                                 | 0.040                                                          | 0.060                                                                    | 10                                                    | 15                                                              | 4.1                                                               | 1.4                                                                       |
| 30...    | 0.60                                                                          | 0.170                                                 | 0.180                                                          | 0.060                                                                    | 5.0                                                   | 74                                                              | 4.8                                                               | 5.0                                                                       |
| SEP      |                                                                               |                                                       |                                                                |                                                                          |                                                       |                                                                 |                                                                   |                                                                           |
| 04...    | 0.20                                                                          | 0.200                                                 | 0.030                                                          | 0.040                                                                    | 24                                                    | 47                                                              | 4.3                                                               | --                                                                        |
| 17...    | 0.30                                                                          | 0.210                                                 | 0.030                                                          | 0.040                                                                    | 10                                                    | 9.0                                                             | 4.9                                                               | 1.5                                                                       |

## PESTICIDE ANALYSES, AUGUST 1995 TO SEPTEMBER 1996

| DATE     | 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) | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(39415) | NAPROP-<br>AMIDE<br>WATER<br>FLTRD<br>GF, REC<br>(UG/L)<br>(82684) | PRON-<br>AMIDE<br>WATER<br>FLTRD<br>GF, REC<br>(UG/L)<br>(82676) | PROP-<br>CHLOR,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04024) | PRO-<br>PANIL<br>WATER<br>FLTRD<br>GF, REC<br>(UG/L)<br>(82679) | ALDI-<br>CARB,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49312) | ALDI-<br>CARB<br>SULFONE<br>WAT, FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49313) | ALDICA-<br>RB SUL-<br>FOXIDE,<br>WAT, FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49314) | BUTYL-<br>ATE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04028) | CAR-<br>BARYL,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49310) |
|----------|----------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------|
| FEB 1996 |                                                                |                                                               |                                                           |                                                                    |                                                                  |                                                                |                                                                 |                                                                          |                                                                             |                                                                                  |                                                               |                                                                          |
| 14...    | <0.002                                                         | <0.002                                                        | 0.031                                                     | <0.003                                                             | <0.003                                                           | 0.008                                                          | 0.012                                                           | <0.016                                                                   | <0.016                                                                      | <0.021                                                                           | <0.002                                                        | <0.008                                                                   |
| 26...    | <0.002                                                         | <0.002                                                        | 0.040                                                     | <0.003                                                             | <0.003                                                           | <0.007                                                         | <0.004                                                          | <0.016                                                                   | <0.016                                                                      | <0.021                                                                           | <0.002                                                        | <0.008                                                                   |
| MAR      |                                                                |                                                               |                                                           |                                                                    |                                                                  |                                                                |                                                                 |                                                                          |                                                                             |                                                                                  |                                                               |                                                                          |
| 20...    | <0.002                                                         | 0.035                                                         | 0.100                                                     | <0.003                                                             | <0.003                                                           | <0.007                                                         | <0.004                                                          | <0.016                                                                   | <0.016                                                                      | <0.021                                                                           | <0.002                                                        | <0.008                                                                   |
| APR      |                                                                |                                                               |                                                           |                                                                    |                                                                  |                                                                |                                                                 |                                                                          |                                                                             |                                                                                  |                                                               |                                                                          |
| 01...    | 0.430                                                          | 0.110                                                         | 1.40                                                      | <0.003                                                             | <0.003                                                           | <0.007                                                         | <0.004                                                          | <0.016                                                                   | <0.016                                                                      | <0.021                                                                           | <0.002                                                        | <0.008                                                                   |
| 19...    | 0.320                                                          | 0.098                                                         | 5.80                                                      | <0.003                                                             | <0.003                                                           | <0.007                                                         | <0.004                                                          | <0.016                                                                   | <0.016                                                                      | <0.021                                                                           | <0.002                                                        | <0.008                                                                   |
| MAY      |                                                                |                                                               |                                                           |                                                                    |                                                                  |                                                                |                                                                 |                                                                          |                                                                             |                                                                                  |                                                               |                                                                          |
| 06...    | 0.130                                                          | 0.300                                                         | 3.60                                                      | <0.003                                                             | <0.003                                                           | <0.007                                                         | <0.004                                                          | <0.016                                                                   | <0.016                                                                      | <0.021                                                                           | <0.002                                                        | <0.008                                                                   |
| 20...    | 0.160                                                          | 0.073                                                         | 1.30                                                      | <0.003                                                             | <0.003                                                           | <0.007                                                         | <0.004                                                          | <0.016                                                                   | <0.016                                                                      | <0.021                                                                           | <0.002                                                        | <0.008                                                                   |
| JUN      |                                                                |                                                               |                                                           |                                                                    |                                                                  |                                                                |                                                                 |                                                                          |                                                                             |                                                                                  |                                                               |                                                                          |
| 04...    | 0.055                                                          | 0.210                                                         | 2.50                                                      | <0.003                                                             | <0.003                                                           | <0.007                                                         | <0.004                                                          | <0.016                                                                   | <0.016                                                                      | <0.021                                                                           | <0.002                                                        | <0.008                                                                   |
| 17...    | 0.024                                                          | 0.071                                                         | 3.20                                                      | <0.003                                                             | <0.003                                                           | <0.007                                                         | <0.004                                                          | <0.016                                                                   | --                                                                          | --                                                                               | <0.002                                                        | <0.008                                                                   |
| JUL      |                                                                |                                                               |                                                           |                                                                    |                                                                  |                                                                |                                                                 |                                                                          |                                                                             |                                                                                  |                                                               |                                                                          |
| 01...    | 0.023                                                          | 0.022                                                         | 3.40                                                      | <0.003                                                             | <0.003                                                           | <0.007                                                         | <0.004                                                          | <0.016                                                                   | <0.016                                                                      | <0.021                                                                           | <0.002                                                        | <0.008                                                                   |
| 16...    | <0.002                                                         | 0.011                                                         | 0.590                                                     | <0.003                                                             | <0.003                                                           | <0.007                                                         | <0.004                                                          | --                                                                       | --                                                                          | --                                                                               | <0.002                                                        | --                                                                       |
| 30...    | <0.002                                                         | <0.002                                                        | 0.490                                                     | <0.003                                                             | <0.003                                                           | <0.007                                                         | <0.004                                                          | <0.016                                                                   | <0.016                                                                      | <0.021                                                                           | <0.002                                                        | <0.008                                                                   |
| AUG      |                                                                |                                                               |                                                           |                                                                    |                                                                  |                                                                |                                                                 |                                                                          |                                                                             |                                                                                  |                                                               |                                                                          |
| 12...    | <0.002                                                         | 0.017                                                         | 0.390                                                     | <0.003                                                             | <0.003                                                           | <0.007                                                         | <0.004                                                          | <0.016                                                                   | <0.016                                                                      | <0.021                                                                           | <0.002                                                        | <0.008                                                                   |
| 30...    | <0.002                                                         | 0.018                                                         | 0.267                                                     | <0.003                                                             | <0.003                                                           | <0.007                                                         | <0.004                                                          | --                                                                       | --                                                                          | --                                                                               | <0.002                                                        | --                                                                       |
| SEP      |                                                                |                                                               |                                                           |                                                                    |                                                                  |                                                                |                                                                 |                                                                          |                                                                             |                                                                                  |                                                               |                                                                          |
| 04...    | <0.002                                                         | 0.019                                                         | 0.282                                                     | <0.003                                                             | <0.003                                                           | <0.007                                                         | <0.004                                                          | <0.016                                                                   | <0.016                                                                      | <0.021                                                                           | <0.002                                                        | <0.008                                                                   |
| 17...    | <0.002                                                         | 0.012                                                         | 0.236                                                     | <0.003                                                             | <0.003                                                           | <0.007                                                         | <0.004                                                          | <0.016                                                                   | <0.016                                                                      | <0.021                                                                           | <0.002                                                        | <0.008                                                                   |



## YAZOO RIVER BASIN

07288955 YAZOO RIVER BELOW STEELE BAYOU NEAR LONG LAKE, MS--Continued

## PESTICIDE ANALYSES, AUGUST 1995 TO SEPTEMBER 1996

| DATE      | CAR-<br>BARYL<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82680)    | CARBO-<br>FURAN,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49309) | CARBO-<br>FURAN,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82674) | 3HYDRXY<br>CARBO-<br>FURAN<br>WAT,FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49308) | EPTC<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82668)             | METHIO-<br>CARB,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(38501) | METH-<br>OMYL,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49296) | MOL-<br>INATE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82671) | OXAMYL,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(38866) | PEB-<br>ULATE<br>WATER<br>FILTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82669) | PRO-<br>PHAM,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49236) | PRO-<br>POXUR,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(38538) |
|-----------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------|
| FEB 1996  |                                                                             |                                                                             |                                                                              |                                                                              |                                                                             |                                                                             |                                                                           |                                                                          |                                                                    |                                                                           |                                                                          |                                                                           |
| 14...     | <0.003                                                                      | <0.028                                                                      | <0.003                                                                       | <0.014                                                                       | <0.002                                                                      | <0.026                                                                      | <0.017                                                                    | 0.029                                                                    | <0.018                                                             | <0.004                                                                    | <0.035                                                                   | <0.035                                                                    |
| 26...     | <0.003                                                                      | <0.028                                                                      | <0.003                                                                       | <0.014                                                                       | <0.002                                                                      | <0.026                                                                      | <0.017                                                                    | 0.005                                                                    | <0.018                                                             | <0.004                                                                    | <0.035                                                                   | <0.035                                                                    |
| MAR 20... | <0.003                                                                      | <0.028                                                                      | <0.003                                                                       | <0.010                                                                       | <0.002                                                                      | <0.026                                                                      | <0.017                                                                    | <0.004                                                                   | <0.018                                                             | <0.004                                                                    | <0.035                                                                   | <0.035                                                                    |
| APR 01... | <0.003                                                                      | <0.028                                                                      | E0.009                                                                       | <0.014                                                                       | <0.002                                                                      | <0.026                                                                      | <0.017                                                                    | 0.017                                                                    | <0.018                                                             | <0.004                                                                    | <0.035                                                                   | <0.035                                                                    |
| 19...     | <0.003                                                                      | <0.028                                                                      | E0.019                                                                       | <0.014                                                                       | <0.002                                                                      | <0.026                                                                      | <0.017                                                                    | E0.004                                                                   | <0.018                                                             | <0.004                                                                    | <0.035                                                                   | <0.035                                                                    |
| MAY 06... | <0.003                                                                      | <0.028                                                                      | <0.003                                                                       | <0.014                                                                       | <0.002                                                                      | <0.026                                                                      | <0.017                                                                    | <0.004                                                                   | <0.018                                                             | <0.004                                                                    | <0.035                                                                   | <0.035                                                                    |
| 20...     | <0.003                                                                      | <0.028                                                                      | <0.003                                                                       | <0.014                                                                       | <0.002                                                                      | <0.026                                                                      | <0.017                                                                    | <0.004                                                                   | <0.018                                                             | <0.004                                                                    | <0.035                                                                   | <0.035                                                                    |
| JUN 04... | <0.003                                                                      | <0.028                                                                      | <0.003                                                                       | <0.014                                                                       | <0.002                                                                      | <0.026                                                                      | <0.017                                                                    | 0.014                                                                    | <0.018                                                             | <0.004                                                                    | <0.035                                                                   | <0.035                                                                    |
| 17...     | <0.003                                                                      | <0.028                                                                      | E0.052                                                                       | <0.014                                                                       | <0.002                                                                      | <0.026                                                                      | --                                                                        | 0.500                                                                    | --                                                                 | <0.004                                                                    | <0.035                                                                   | <0.035                                                                    |
| JUL 01... | <0.003                                                                      | <0.028                                                                      | E0.150                                                                       | <0.014                                                                       | <0.002                                                                      | <0.026                                                                      | <0.017                                                                    | 1.90                                                                     | <0.018                                                             | <0.004                                                                    | <0.035                                                                   | <0.035                                                                    |
| 16...     | <0.003                                                                      | --                                                                          | <0.003                                                                       | --                                                                           | <0.002                                                                      | --                                                                          | --                                                                        | 2.00                                                                     | --                                                                 | <0.004                                                                    | --                                                                       | --                                                                        |
| 30...     | <0.003                                                                      | <0.028                                                                      | <0.003                                                                       | <0.014                                                                       | <0.002                                                                      | <0.026                                                                      | <0.017                                                                    | 3.30                                                                     | <0.018                                                             | <0.004                                                                    | <0.035                                                                   | <0.035                                                                    |
| AUG 12... | <0.003                                                                      | <0.028                                                                      | <0.003                                                                       | <0.014                                                                       | <0.002                                                                      | <0.026                                                                      | <0.017                                                                    | 0.230                                                                    | <0.018                                                             | <0.004                                                                    | <0.035                                                                   | <0.035                                                                    |
| 30...     | <0.003                                                                      | --                                                                          | <0.003                                                                       | --                                                                           | <0.002                                                                      | --                                                                          | --                                                                        | 0.065                                                                    | --                                                                 | <0.004                                                                    | --                                                                       | --                                                                        |
| SEP 04... | <0.003                                                                      | <0.028                                                                      | <0.003                                                                       | <0.014                                                                       | <0.002                                                                      | <0.026                                                                      | <0.017                                                                    | <0.004                                                                   | <0.018                                                             | <0.004                                                                    | <0.035                                                                   | <0.035                                                                    |
| 17...     | <0.003                                                                      | <0.028                                                                      | <0.003                                                                       | <0.014                                                                       | <0.002                                                                      | <0.026                                                                      | --                                                                        | <0.004                                                                   | <0.018                                                             | <0.004                                                                    | <0.035                                                                   | <0.035                                                                    |
| DATE      | 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)   | 2,4-D,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39732)                                | 2,4-D,<br>TOTAL<br>(UG/L)<br>(39730)                                         | DICHLOR<br>PROP,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49302) | 2, 4-DP<br>TOTAL<br>(UG/L)<br>(82183)                                       | 2,4-DB<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(38746)         | MCPA,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(38482)         | MCPB,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(38487)   | SILVEX,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39762)                            | SILVEX,<br>TOTAL<br>(UG/L)<br>(39760)                                    | 2,4,5-T<br>DIS-<br>SOLVED<br>(UG/L)<br>(39742)                            |
| FEB 1996  |                                                                             |                                                                             |                                                                              |                                                                              |                                                                             |                                                                             |                                                                           |                                                                          |                                                                    |                                                                           |                                                                          |                                                                           |
| 14...     | 0.019                                                                       | <0.001                                                                      | <0.035                                                                       | --                                                                           | <0.032                                                                      | --                                                                          | <0.035                                                                    | <0.050                                                                   | <0.035                                                             | <0.021                                                                    | --                                                                       | <0.035                                                                    |
| 26...     | <0.002                                                                      | <0.001                                                                      | <0.035                                                                       | --                                                                           | <0.032                                                                      | --                                                                          | <0.035                                                                    | <0.050                                                                   | <0.035                                                             | <0.021                                                                    | --                                                                       | <0.035                                                                    |
| MAR 20... | <0.002                                                                      | <0.001                                                                      | 0.080                                                                        | --                                                                           | <0.032                                                                      | --                                                                          | <0.035                                                                    | <0.050                                                                   | <0.035                                                             | <0.021                                                                    | --                                                                       | <0.035                                                                    |
| APR 01... | 0.004                                                                       | <0.001                                                                      | <0.035                                                                       | --                                                                           | <0.032                                                                      | --                                                                          | <0.035                                                                    | <0.050                                                                   | <0.035                                                             | <0.021                                                                    | --                                                                       | <0.035                                                                    |
| 19...     | 0.007                                                                       | <0.001                                                                      | 0.220                                                                        | --                                                                           | <0.032                                                                      | --                                                                          | <0.035                                                                    | <0.050                                                                   | <0.035                                                             | <0.021                                                                    | --                                                                       | <0.035                                                                    |
| MAY 06... | <0.002                                                                      | <0.001                                                                      | <0.035                                                                       | <0.010                                                                       | <0.032                                                                      | <0.010                                                                      | <0.035                                                                    | <0.050                                                                   | <0.035                                                             | <0.021                                                                    | <0.010                                                                   | <0.035                                                                    |
| 20...     | <0.002                                                                      | <0.001                                                                      | <0.035                                                                       | 0.050                                                                        | <0.032                                                                      | <0.010                                                                      | <0.035                                                                    | <0.050                                                                   | <0.035                                                             | <0.021                                                                    | <0.010                                                                   | <0.035                                                                    |
| JUN 04... | <0.002                                                                      | <0.001                                                                      | <0.035                                                                       | 0.130                                                                        | <0.032                                                                      | <0.010                                                                      | <0.035                                                                    | <0.050                                                                   | <0.035                                                             | <0.021                                                                    | <0.010                                                                   | <0.035                                                                    |
| 17...     | 0.051                                                                       | <0.001                                                                      | <0.035                                                                       | 0.050                                                                        | <0.032                                                                      | <0.010                                                                      | <0.035                                                                    | <0.050                                                                   | <0.035                                                             | <0.021                                                                    | <0.010                                                                   | <0.035                                                                    |
| JUL 01... | 0.074                                                                       | <0.001                                                                      | <0.035                                                                       | --                                                                           | <0.032                                                                      | --                                                                          | <0.035                                                                    | <0.050                                                                   | <0.035                                                             | <0.021                                                                    | --                                                                       | <0.035                                                                    |
| 16...     | 0.018                                                                       | <0.001                                                                      | --                                                                           | --                                                                           | --                                                                          | --                                                                          | --                                                                        | --                                                                       | --                                                                 | --                                                                        | --                                                                       | --                                                                        |
| 30...     | 0.020                                                                       | <0.001                                                                      | <0.035                                                                       | --                                                                           | <0.032                                                                      | --                                                                          | <0.035                                                                    | <0.050                                                                   | <0.035                                                             | <0.021                                                                    | --                                                                       | <0.035                                                                    |
| AUG 12... | <0.002                                                                      | <0.001                                                                      | <0.035                                                                       | --                                                                           | <0.032                                                                      | --                                                                          | <0.035                                                                    | <0.050                                                                   | <0.035                                                             | <0.021                                                                    | --                                                                       | <0.035                                                                    |
| 30...     | <0.002                                                                      | <0.001                                                                      | --                                                                           | --                                                                           | --                                                                          | --                                                                          | --                                                                        | --                                                                       | --                                                                 | --                                                                        | --                                                                       | --                                                                        |
| SEP 04... | <0.002                                                                      | <0.001                                                                      | <0.035                                                                       | --                                                                           | <0.032                                                                      | --                                                                          | <0.035                                                                    | <0.050                                                                   | <0.035                                                             | <0.021                                                                    | --                                                                       | <0.035                                                                    |
| 17...     | <0.002                                                                      | <0.001                                                                      | <0.035                                                                       | --                                                                           | <0.032                                                                      | --                                                                          | <0.035                                                                    | <0.050                                                                   | <0.035                                                             | <0.021                                                                    | --                                                                       | <0.035                                                                    |

## 07288955 YAZOO RIVER BELOW STEELE BAYOU NEAR LONG LAKE, MS--Continued

## PESTICIDE ANALYSES, AUGUST 1995 TO SEPTEMBER 1996

| DATE     | 2,4,5-T<br>TOTAL<br>(UG/L)<br>(39740) | TRI-<br>CLOPYR,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>(UG/L)<br>(49235) | BEN-<br>FLUR-<br>ALIN<br>WAT FLD<br>GF, REC<br>(UG/L)<br>(82673) | ETHAL-<br>FLUR-<br>ALIN<br>WAT FLT<br>GF, REC<br>(UG/L)<br>(82663) | ORY-<br>ZALIN,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>(UG/L)<br>(49292) | PENDI-<br>METH-<br>ALIN<br>WAT FLT<br>GF, REC<br>(UG/L)<br>(82683) | TRI-<br>FLUR-<br>ALIN<br>WAT FLT<br>GF, REC<br>(UG/L)<br>(82661) | ALPHA<br>BHC<br>DIS-<br>SOLVED<br>(UG/L)<br>(34253) | CHLORO-<br>THALO-<br>NIL,<br>WAT, FLT<br>GF 0.7U<br>(UG/L)<br>(49306) | DCPA<br>WATER<br>FLTRD<br>GF, REC<br>(UG/L)<br>(82682) | DACTHAL<br>MONO-<br>ACID,<br>WAT, FLT<br>GF 0.7U<br>(UG/L)<br>(49304) | P, P'<br>DDE<br>DISSOLV<br>(UG/L)<br>(34653) |
|----------|---------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------|
| FEB 1996 |                                       |                                                                     |                                                                  |                                                                    |                                                                    |                                                                    |                                                                  |                                                     |                                                                       |                                                        |                                                                       |                                              |
| 14...    | --                                    | <0.050                                                              | <0.002                                                           | <0.004                                                             | <0.019                                                             | <0.004                                                             | 0.007                                                            | <0.002                                              | <0.035                                                                | E0.001                                                 | <0.017                                                                | <0.006                                       |
| 26...    | --                                    | <0.050                                                              | <0.002                                                           | <0.004                                                             | <0.019                                                             | <0.004                                                             | 0.006                                                            | <0.002                                              | <0.035                                                                | E0.002                                                 | <0.017                                                                | E0.001                                       |
| MAR      |                                       |                                                                     |                                                                  |                                                                    |                                                                    |                                                                    |                                                                  |                                                     |                                                                       |                                                        |                                                                       |                                              |
| 20...    | --                                    | <0.050                                                              | <0.002                                                           | <0.004                                                             | <0.019                                                             | <0.004                                                             | 0.007                                                            | <0.002                                              | <0.035                                                                | E0.002                                                 | <0.017                                                                | <0.006                                       |
| APR      |                                       |                                                                     |                                                                  |                                                                    |                                                                    |                                                                    |                                                                  |                                                     |                                                                       |                                                        |                                                                       |                                              |
| 01...    | --                                    | <0.050                                                              | <0.002                                                           | <0.004                                                             | <0.019                                                             | <0.020                                                             | 0.019                                                            | <0.002                                              | <0.035                                                                | E0.003                                                 | <0.017                                                                | <0.006                                       |
| 19...    | --                                    | <0.050                                                              | <0.002                                                           | <0.004                                                             | <0.019                                                             | 0.080                                                              | 0.075                                                            | <0.002                                              | <0.035                                                                | <0.002                                                 | <0.017                                                                | E0.002                                       |
| MAY      |                                       |                                                                     |                                                                  |                                                                    |                                                                    |                                                                    |                                                                  |                                                     |                                                                       |                                                        |                                                                       |                                              |
| 06...    | <0.010                                | <0.050                                                              | <0.002                                                           | <0.004                                                             | <0.019                                                             | <0.004                                                             | E0.018                                                           | <0.002                                              | <0.035                                                                | <0.002                                                 | <0.017                                                                | <0.006                                       |
| 20...    | <0.010                                | <0.050                                                              | <0.002                                                           | <0.004                                                             | <0.019                                                             | <0.004                                                             | E0.006                                                           | <0.002                                              | <0.035                                                                | <0.002                                                 | <0.017                                                                | <0.006                                       |
| JUN      |                                       |                                                                     |                                                                  |                                                                    |                                                                    |                                                                    |                                                                  |                                                     |                                                                       |                                                        |                                                                       |                                              |
| 04...    | 0.110                                 | <0.050                                                              | <0.002                                                           | <0.004                                                             | <0.019                                                             | <0.004                                                             | 0.007                                                            | <0.002                                              | <0.035                                                                | <0.002                                                 | <0.017                                                                | <0.006                                       |
| 17...    | <0.010                                | <0.050                                                              | <0.002                                                           | <0.004                                                             | <0.019                                                             | 0.049                                                              | 0.019                                                            | <0.002                                              | <0.035                                                                | <0.002                                                 | <0.017                                                                | <0.006                                       |
| JUL      |                                       |                                                                     |                                                                  |                                                                    |                                                                    |                                                                    |                                                                  |                                                     |                                                                       |                                                        |                                                                       |                                              |
| 01...    | --                                    | <0.050                                                              | <0.002                                                           | <0.004                                                             | <0.019                                                             | 0.037                                                              | 0.028                                                            | <0.002                                              | <0.035                                                                | <0.002                                                 | <0.017                                                                | <0.006                                       |
| 16...    | --                                    | --                                                                  | <0.002                                                           | <0.004                                                             | --                                                                 | <0.004                                                             | <0.002                                                           | <0.002                                              | --                                                                    | <0.002                                                 | --                                                                    | <0.006                                       |
| 30...    | --                                    | 0.300                                                               | <0.002                                                           | <0.004                                                             | <0.019                                                             | <0.004                                                             | 0.006                                                            | <0.002                                              | <0.035                                                                | <0.002                                                 | <0.017                                                                | <0.006                                       |
| AUG      |                                       |                                                                     |                                                                  |                                                                    |                                                                    |                                                                    |                                                                  |                                                     |                                                                       |                                                        |                                                                       |                                              |
| 12...    | --                                    | <0.050                                                              | <0.002                                                           | <0.004                                                             | <0.019                                                             | <0.004                                                             | <0.002                                                           | <0.002                                              | <0.035                                                                | <0.002                                                 | <0.017                                                                | <0.006                                       |
| 30...    | --                                    | --                                                                  | <0.002                                                           | <0.004                                                             | --                                                                 | <0.004                                                             | <0.002                                                           | <0.002                                              | --                                                                    | <0.002                                                 | --                                                                    | <0.006                                       |
| SEP      |                                       |                                                                     |                                                                  |                                                                    |                                                                    |                                                                    |                                                                  |                                                     |                                                                       |                                                        |                                                                       |                                              |
| 04...    | --                                    | <0.050                                                              | <0.002                                                           | <0.004                                                             | <0.019                                                             | <0.004                                                             | <0.002                                                           | <0.002                                              | <0.035                                                                | <0.002                                                 | <0.017                                                                | <0.006                                       |
| 17...    | --                                    | <0.050                                                              | <0.002                                                           | <0.004                                                             | <0.019                                                             | <0.004                                                             | <0.002                                                           | <0.002                                              | <0.035                                                                | <0.002                                                 | <0.017                                                                | <0.006                                       |
| FEB 1996 |                                       |                                                                     |                                                                  |                                                                    |                                                                    |                                                                    |                                                                  |                                                     |                                                                       |                                                        |                                                                       |                                              |
| 14...    | <0.020                                | 0.015                                                               | <0.004                                                           | <0.001                                                             | 0.012                                                              | 0.025                                                              | <0.017                                                           | <0.003                                              | <0.003                                                                | <0.005                                                 | <0.006                                                                | <0.004                                       |
| 26...    | <0.020                                | <0.001                                                              | <0.004                                                           | <0.001                                                             | <0.004                                                             | <0.002                                                             | <0.017                                                           | <0.003                                              | <0.003                                                                | <0.005                                                 | <0.006                                                                | <0.004                                       |
| MAR      |                                       |                                                                     |                                                                  |                                                                    |                                                                    |                                                                    |                                                                  |                                                     |                                                                       |                                                        |                                                                       |                                              |
| 20...    | <0.020                                | <0.001                                                              | <0.004                                                           | <0.001                                                             | <0.004                                                             | <0.002                                                             | <0.017                                                           | <0.003                                              | <0.003                                                                | <0.005                                                 | <0.006                                                                | <0.004                                       |
| APR      |                                       |                                                                     |                                                                  |                                                                    |                                                                    |                                                                    |                                                                  |                                                     |                                                                       |                                                        |                                                                       |                                              |
| 01...    | <0.020                                | <0.001                                                              | <0.004                                                           | <0.001                                                             | 0.006                                                              | 0.006                                                              | <0.017                                                           | <0.003                                              | <0.003                                                                | 0.008                                                  | <0.006                                                                | <0.004                                       |
| 19...    | <0.020                                | <0.001                                                              | <0.004                                                           | <0.001                                                             | 0.035                                                              | 0.005                                                              | <0.017                                                           | <0.003                                              | <0.003                                                                | 0.010                                                  | 0.024                                                                 | <0.004                                       |
| MAY      |                                       |                                                                     |                                                                  |                                                                    |                                                                    |                                                                    |                                                                  |                                                     |                                                                       |                                                        |                                                                       |                                              |
| 06...    | <0.020                                | <0.001                                                              | <0.004                                                           | <0.001                                                             | <0.004                                                             | <0.002                                                             | <0.017                                                           | <0.003                                              | <0.003                                                                | <0.005                                                 | <0.006                                                                | <0.004                                       |
| 20...    | <0.020                                | <0.001                                                              | <0.004                                                           | <0.001                                                             | <0.004                                                             | <0.002                                                             | <0.017                                                           | <0.003                                              | <0.003                                                                | <0.005                                                 | <0.006                                                                | <0.004                                       |
| JUN      |                                       |                                                                     |                                                                  |                                                                    |                                                                    |                                                                    |                                                                  |                                                     |                                                                       |                                                        |                                                                       |                                              |
| 04...    | <0.020                                | <0.001                                                              | <0.004                                                           | <0.001                                                             | <0.004                                                             | <0.002                                                             | <0.017                                                           | <0.003                                              | <0.003                                                                | <0.005                                                 | <0.006                                                                | <0.004                                       |
| 17...    | <0.020                                | <0.001                                                              | <0.004                                                           | <0.001                                                             | <0.004                                                             | <0.002                                                             | <0.017                                                           | <0.003                                              | <0.003                                                                | <0.005                                                 | 0.081                                                                 | <0.004                                       |
| JUL      |                                       |                                                                     |                                                                  |                                                                    |                                                                    |                                                                    |                                                                  |                                                     |                                                                       |                                                        |                                                                       |                                              |
| 01...    | <0.020                                | <0.001                                                              | <0.004                                                           | <0.001                                                             | <0.004                                                             | <0.002                                                             | <0.017                                                           | <0.003                                              | <0.003                                                                | <0.005                                                 | <0.006                                                                | <0.004                                       |
| 16...    | --                                    | <0.001                                                              | <0.004                                                           | <0.001                                                             | 0.016                                                              | <0.002                                                             | <0.017                                                           | <0.003                                              | <0.003                                                                | <0.005                                                 | <0.006                                                                | <0.004                                       |
| 30...    | <0.020                                | <0.001                                                              | <0.004                                                           | <0.001                                                             | <0.040                                                             | <0.002                                                             | <0.017                                                           | <0.003                                              | <0.003                                                                | <0.005                                                 | 0.110                                                                 | <0.004                                       |
| AUG      |                                       |                                                                     |                                                                  |                                                                    |                                                                    |                                                                    |                                                                  |                                                     |                                                                       |                                                        |                                                                       |                                              |
| 12...    | <0.020                                | <0.001                                                              | <0.004                                                           | E0.038                                                             | <0.004                                                             | <0.002                                                             | <0.017                                                           | <0.003                                              | <0.003                                                                | 0.015                                                  | 0.078                                                                 | <0.004                                       |
| 30...    | --                                    | <0.001                                                              | <0.004                                                           | <0.001                                                             | <0.004                                                             | <0.002                                                             | <0.017                                                           | <0.003                                              | <0.003                                                                | <0.005                                                 | 0.018                                                                 | <0.004                                       |
| SEP      |                                       |                                                                     |                                                                  |                                                                    |                                                                    |                                                                    |                                                                  |                                                     |                                                                       |                                                        |                                                                       |                                              |
| 04...    | <0.020                                | <0.001                                                              | <0.004                                                           | <0.001                                                             | <0.004                                                             | <0.002                                                             | <0.017                                                           | <0.003                                              | <0.003                                                                | <0.005                                                 | <0.006                                                                | <0.004                                       |
| 17...    | <0.020                                | <0.001                                                              | <0.004                                                           | <0.001                                                             | <0.004                                                             | <0.002                                                             | <0.017                                                           | <0.003                                              | <0.003                                                                | <0.005                                                 | <0.006                                                                | <0.004                                       |

## YAZOO RIVER BASIN

07288955 YAZOO RIVER BELOW STEELE BAYOU NEAR LONG LAKE, MS--Continued

## PESTICIDE ANALYSES, AUGUST 1995 TO SEPTEMBER 1996

| DATE     | PHORATE                                                            | TER-                                                                        | PER-                                                               | DEETHYL                                                        |                                                                          |                                                                    |                                                                             | PRO-                                                                      | SI-                                                                        | BRO-                                                                        | TER-                                                                        | FEN-   |
|----------|--------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------|
|          | WATER                                                              | BUFOS                                                                       | METHRIN                                                            | ATRA-                                                          | ATRA-                                                                    | CYANA-                                                             | METRI-                                                                      | METON,                                                                    | MAZINE,                                                                    | MACIL,                                                                      | BACIL                                                                       | URON,  |
|          | FLTRD                                                              | WATER                                                                       | CIS                                                                | ZINE,                                                          | ZINE,                                                                    | ZINE,                                                              | BUZIN                                                                       | WATER,                                                                    | WATER,                                                                     | WATER,                                                                      | WATER                                                                       | WATER, |
|          | 0.7 U                                                              | FLTRD                                                                       | WAT FLT                                                            | WATER,                                                         | WATER,                                                                   | WATER,                                                             | SENCOR                                                                      | DISS,                                                                     | DISS,                                                                      | DISS,                                                                       | FLTRD                                                                       | FLTRD, |
| GF, REC  | GF, REC                                                            | GF, REC                                                                     | REC                                                                | REC                                                            | REC                                                                      | REC                                                                | DISSOLV                                                                     | REC                                                                       | REC                                                                        | REC                                                                         | GF, REC                                                                     | REC    |
| (UG/L)   | (UG/L)                                                             | (UG/L)                                                                      | (UG/L)                                                             | (UG/L)                                                         | (UG/L)                                                                   | (UG/L)                                                             | (UG/L)                                                                      | (UG/L)                                                                    | (UG/L)                                                                     | (UG/L)                                                                      | (UG/L)                                                                      | (UG/L) |
| (82664)  | (82675)                                                            | (82687)                                                                     | (39632)                                                            | (04040)                                                        | (04041)                                                                  | (82630)                                                            | (04037)                                                                     | (04035)                                                                   | (04029)                                                                    | (82665)                                                                     | (49297)                                                                     |        |
| FEB 1996 |                                                                    |                                                                             |                                                                    |                                                                |                                                                          |                                                                    |                                                                             |                                                                           |                                                                            |                                                                             |                                                                             |        |
| 14...    | <0.002                                                             | <0.013                                                                      | <0.005                                                             | 0.031                                                          | E0.005                                                                   | 0.027                                                              | 0.010                                                                       | <0.018                                                                    | 0.029                                                                      | <0.035                                                                      | <0.007                                                                      | <0.013 |
| 26...    | <0.002                                                             | <0.013                                                                      | <0.005                                                             | 0.029                                                          | E0.003                                                                   | 0.042                                                              | <0.004                                                                      | E0.009                                                                    | 0.026                                                                      | <0.035                                                                      | <0.007                                                                      | <0.013 |
| MAR      |                                                                    |                                                                             |                                                                    |                                                                |                                                                          |                                                                    |                                                                             |                                                                           |                                                                            |                                                                             |                                                                             |        |
| 20...    | <0.002                                                             | <0.013                                                                      | <0.005                                                             | 0.150                                                          | E0.003                                                                   | 0.022                                                              | <0.004                                                                      | E0.005                                                                    | 0.063                                                                      | <0.035                                                                      | <0.007                                                                      | <0.013 |
| APR      |                                                                    |                                                                             |                                                                    |                                                                |                                                                          |                                                                    |                                                                             |                                                                           |                                                                            |                                                                             |                                                                             |        |
| 01...    | <0.002                                                             | <0.013                                                                      | <0.005                                                             | 2.80                                                           | E0.028                                                                   | 0.150                                                              | 0.072                                                                       | E0.014                                                                    | 0.140                                                                      | <0.035                                                                      | <0.007                                                                      | <0.013 |
| 19...    | <0.002                                                             | <0.013                                                                      | <0.005                                                             | 6.10                                                           | E0.110                                                                   | 0.340                                                              | 0.440                                                                       | E0.012                                                                    | 0.160                                                                      | <0.035                                                                      | <0.007                                                                      | <0.013 |
| MAY      |                                                                    |                                                                             |                                                                    |                                                                |                                                                          |                                                                    |                                                                             |                                                                           |                                                                            |                                                                             |                                                                             |        |
| 06...    | <0.002                                                             | <0.013                                                                      | <0.005                                                             | 4.90                                                           | E0.087                                                                   | 0.093                                                              | 0.210                                                                       | <0.018                                                                    | 0.077                                                                      | <0.035                                                                      | <0.007                                                                      | <0.013 |
| 20...    | <0.002                                                             | <0.013                                                                      | <0.005                                                             | 3.10                                                           | E0.071                                                                   | 0.500                                                              | 0.055                                                                       | <0.018                                                                    | 0.160                                                                      | <0.035                                                                      | <0.007                                                                      | <0.013 |
| JUN      |                                                                    |                                                                             |                                                                    |                                                                |                                                                          |                                                                    |                                                                             |                                                                           |                                                                            |                                                                             |                                                                             |        |
| 04...    | <0.002                                                             | <0.013                                                                      | <0.005                                                             | 2.80                                                           | E0.130                                                                   | 0.120                                                              | 0.170                                                                       | E0.007                                                                    | 0.081                                                                      | <0.035                                                                      | <0.007                                                                      | <0.013 |
| 17...    | <0.002                                                             | <0.013                                                                      | <0.005                                                             | 2.90                                                           | E0.130                                                                   | 0.290                                                              | 0.300                                                                       | E0.011                                                                    | 0.059                                                                      | <0.035                                                                      | <0.007                                                                      | <0.013 |
| JUL      |                                                                    |                                                                             |                                                                    |                                                                |                                                                          |                                                                    |                                                                             |                                                                           |                                                                            |                                                                             |                                                                             |        |
| 01...    | <0.002                                                             | <0.013                                                                      | <0.005                                                             | 2.50                                                           | E0.086                                                                   | 0.670                                                              | 0.300                                                                       | E0.014                                                                    | 0.048                                                                      | <0.035                                                                      | <0.007                                                                      | <0.013 |
| 16...    | <0.002                                                             | <0.013                                                                      | <0.005                                                             | 0.800                                                          | E0.052                                                                   | 0.590                                                              | 0.043                                                                       | E0.008                                                                    | 0.025                                                                      | --                                                                          | <0.007                                                                      | --     |
| 30...    | <0.002                                                             | <0.013                                                                      | <0.005                                                             | 0.250                                                          | E0.022                                                                   | 1.30                                                               | 0.058                                                                       | E0.007                                                                    | 0.012                                                                      | <0.035                                                                      | <0.007                                                                      | <0.013 |
| AUG      |                                                                    |                                                                             |                                                                    |                                                                |                                                                          |                                                                    |                                                                             |                                                                           |                                                                            |                                                                             |                                                                             |        |
| 12...    | <0.002                                                             | <0.013                                                                      | <0.005                                                             | 0.460                                                          | E0.031                                                                   | 0.640                                                              | 0.036                                                                       | <0.018                                                                    | 0.020                                                                      | <0.035                                                                      | <0.007                                                                      | <0.013 |
| 30...    | <0.002                                                             | <0.013                                                                      | <0.005                                                             | 0.514                                                          | E0.025                                                                   | 0.164                                                              | <0.004                                                                      | <0.018                                                                    | 0.022                                                                      | --                                                                          | <0.007                                                                      | --     |
| SEP      |                                                                    |                                                                             |                                                                    |                                                                |                                                                          |                                                                    |                                                                             |                                                                           |                                                                            |                                                                             |                                                                             |        |
| 04...    | <0.002                                                             | <0.013                                                                      | <0.005                                                             | 0.544                                                          | E0.031                                                                   | 0.154                                                              | <0.004                                                                      | <0.018                                                                    | 0.022                                                                      | <0.035                                                                      | <0.007                                                                      | <0.013 |
| 17...    | <0.002                                                             | <0.013                                                                      | <0.005                                                             | 0.573                                                          | E0.032                                                                   | 0.072                                                              | <0.004                                                                      | <0.018                                                                    | 0.024                                                                      | <0.035                                                                      | <0.007                                                                      | <0.013 |
|          |                                                                    |                                                                             |                                                                    |                                                                |                                                                          |                                                                    |                                                                             |                                                                           |                                                                            |                                                                             |                                                                             |        |
| DATE     | DIURON,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49300) | FLUO-<br>METURON<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(38811) | LINURON<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(38478) | LIN-<br>URON<br>WATER<br>FLTRD<br>GF, REC<br>(UG/L)<br>(82666) | NEB-<br>URON,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49294) | TEBU-<br>THIURON<br>WATER<br>FLTRD<br>GF, REC<br>(UG/L)<br>(82670) | ACIFL-<br>UORFEN<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49315) | BENTA-<br>ZON,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(38711) | BRO-<br>MOXYNIL<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49311) | CHLOR-<br>AMBEN,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49307) | CLOPYR-<br>ALID,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49305) |        |
| FEB 1996 |                                                                    |                                                                             |                                                                    |                                                                |                                                                          |                                                                    |                                                                             |                                                                           |                                                                            |                                                                             |                                                                             |        |
| 14...    | 0.150                                                              | <0.035                                                                      | <0.018                                                             | <0.002                                                         | <0.015                                                                   | E0.011                                                             | <0.035                                                                      | <0.014                                                                    | <0.035                                                                     | <0.011                                                                      | <0.050                                                                      |        |
| 26...    | 0.060                                                              | 0.090                                                                       | <0.018                                                             | <0.002                                                         | <0.015                                                                   | E0.009                                                             | <0.035                                                                      | <0.014                                                                    | <0.035                                                                     | <0.011                                                                      | <0.050                                                                      |        |
| MAR      |                                                                    |                                                                             |                                                                    |                                                                |                                                                          |                                                                    |                                                                             |                                                                           |                                                                            |                                                                             |                                                                             |        |
| 20...    | 0.060                                                              | 0.040                                                                       | <0.026                                                             | <0.002                                                         | <0.015                                                                   | 0.014                                                              | <0.035                                                                      | <0.014                                                                    | <0.035                                                                     | <0.011                                                                      | <0.050                                                                      |        |
| APR      |                                                                    |                                                                             |                                                                    |                                                                |                                                                          |                                                                    |                                                                             |                                                                           |                                                                            |                                                                             |                                                                             |        |
| 01...    | 0.100                                                              | 0.080                                                                       | <0.018                                                             | <0.002                                                         | <0.015                                                                   | 0.048                                                              | <0.035                                                                      | <0.014                                                                    | <0.035                                                                     | <0.011                                                                      | <0.050                                                                      |        |
| 19...    | 0.150                                                              | 0.900                                                                       | <0.018                                                             | <0.002                                                         | <0.015                                                                   | 0.014                                                              | <0.035                                                                      | <0.014                                                                    | <0.035                                                                     | <0.011                                                                      | <0.050                                                                      |        |
| MAY      |                                                                    |                                                                             |                                                                    |                                                                |                                                                          |                                                                    |                                                                             |                                                                           |                                                                            |                                                                             |                                                                             |        |
| 06...    | 0.060                                                              | 0.200                                                                       | <0.018                                                             | <0.002                                                         | <0.015                                                                   | <0.010                                                             | <0.035                                                                      | <0.014                                                                    | <0.035                                                                     | <0.011                                                                      | <0.050                                                                      |        |
| 20...    | <0.020                                                             | 0.100                                                                       | <0.018                                                             | <0.002                                                         | <0.015                                                                   | <0.010                                                             | <0.035                                                                      | <0.014                                                                    | <0.035                                                                     | <0.011                                                                      | <0.050                                                                      |        |
| JUN      |                                                                    |                                                                             |                                                                    |                                                                |                                                                          |                                                                    |                                                                             |                                                                           |                                                                            |                                                                             |                                                                             |        |
| 04...    | <0.020                                                             | E0.840                                                                      | <0.018                                                             | <0.002                                                         | <0.015                                                                   | <0.010                                                             | <0.035                                                                      | <0.014                                                                    | <0.035                                                                     | <0.011                                                                      | <0.050                                                                      |        |
| 17...    | <0.020                                                             | E0.800                                                                      | <0.018                                                             | 0.010                                                          | <0.015                                                                   | 0.012                                                              | <0.035                                                                      | 0.160                                                                     | <0.035                                                                     | <0.011                                                                      | <0.050                                                                      |        |
| JUL      |                                                                    |                                                                             |                                                                    |                                                                |                                                                          |                                                                    |                                                                             |                                                                           |                                                                            |                                                                             |                                                                             |        |
| 01...    | <0.020                                                             | 1.30                                                                        | <0.018                                                             | <0.002                                                         | <0.015                                                                   | <0.010                                                             | <0.035                                                                      | <0.014                                                                    | <0.035                                                                     | <0.011                                                                      | <0.050                                                                      |        |
| 16...    | --                                                                 | --                                                                          | --                                                                 | <0.002                                                         | --                                                                       | <0.010                                                             | --                                                                          | --                                                                        | --                                                                         | --                                                                          | --                                                                          |        |
| 30...    | 0.600                                                              | E0.440                                                                      | <0.040                                                             | 0.057                                                          | <0.015                                                                   | <0.010                                                             | 0.460                                                                       | 0.810                                                                     | <0.035                                                                     | <0.011                                                                      | <0.050                                                                      |        |
| AUG      |                                                                    |                                                                             |                                                                    |                                                                |                                                                          |                                                                    |                                                                             |                                                                           |                                                                            |                                                                             |                                                                             |        |
| 12...    | 0.370                                                              | 0.420                                                                       | <0.018                                                             | 0.030                                                          | <0.015                                                                   | <0.020                                                             | <0.035                                                                      | 0.190                                                                     | <0.035                                                                     | <0.011                                                                      | <0.050                                                                      |        |
| 30...    | --                                                                 | --                                                                          | --                                                                 | <0.002                                                         | --                                                                       | 0.019                                                              | --                                                                          | --                                                                        | --                                                                         | --                                                                          | --                                                                          |        |
| SEP      |                                                                    |                                                                             |                                                                    |                                                                |                                                                          |                                                                    |                                                                             |                                                                           |                                                                            |                                                                             |                                                                             |        |
| 04...    | 0.100                                                              | 0.230                                                                       | <0.018                                                             | <0.002                                                         | <0.015                                                                   | 0.027                                                              | <0.035                                                                      | 0.060                                                                     | <0.035                                                                     | <0.011                                                                      | <0.050                                                                      |        |
| 17...    | 0.070                                                              | 0.140                                                                       | <0.018                                                             | <0.002                                                         | <0.015                                                                   | 0.029                                                              | <0.035                                                                      | 0.060                                                                     | <0.035                                                                     | <0.011                                                                      | <0.050                                                                      |        |

07288955 YAZOO RIVER BELOW STEELE BAYOU NEAR LONG LAKE, MS--Continued

## PESTICIDE ANALYSES, AUGUST 1995 TO SEPTEMBER 1996

| DATE      | DICAMBA<br>WATER,<br>FLTRD,<br>GF 0.7U | DICAMBA<br>TOTAL<br>(UG/L) | 2,6-DI-<br>ETHYL<br>ANILINE<br>WAT FLT<br>GF 0.7U | DINOSEB<br>WATER,<br>FLTRD,<br>GF 0.7U | DNOC<br>WAT, FLT<br>GF 0.7U | ESFEN-<br>VAL-<br>ERATE,<br>WAT, FLT<br>GF 0.7U | 1-NAPH<br>THOL,<br>WATER,<br>FLTRD,<br>GF 0.7U | NORFLUR<br>AZON,<br>WATER,<br>FLTRD,<br>GF 0.7U | PIC-<br>LORAM,<br>WATER,<br>FLTRD,<br>GF 0.7U | PIC-<br>LORAM<br>UNFILTR<br>RECOVER<br>(UG/L) | PRO-<br>PARGITE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L) |
|-----------|----------------------------------------|----------------------------|---------------------------------------------------|----------------------------------------|-----------------------------|-------------------------------------------------|------------------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------|
|           | REC                                    |                            | GF, REC                                           | REC                                    | REC                         | REC                                             | REC                                            | REC                                             | REC                                           |                                               |                                                                 |
|           | (UG/L)                                 | (UG/L)                     | (UG/L)                                            | (UG/L)                                 | (UG/L)                      | (UG/L)                                          | (UG/L)                                         | (UG/L)                                          | (UG/L)                                        | (UG/L)                                        | (UG/L)                                                          |
|           | (38442)                                | (82052)                    | (82660)                                           | (49301)                                | (49299)                     | (49298)                                         | (49295)                                        | (49293)                                         | (49291)                                       | (39720)                                       | (82685)                                                         |
| FEB 1996  |                                        |                            |                                                   |                                        |                             |                                                 |                                                |                                                 |                                               |                                               |                                                                 |
| 14...     | <0.035                                 | --                         | <0.003                                            | <0.035                                 | <0.035                      | <0.019                                          | <0.007                                         | <0.024                                          | <0.050                                        | --                                            | <0.013                                                          |
| 26...     | <0.035                                 | --                         | <0.003                                            | <0.035                                 | <0.035                      | <0.019                                          | <0.007                                         | <0.024                                          | <0.050                                        | --                                            | <0.013                                                          |
| MAR 20... | <0.035                                 | --                         | <0.003                                            | <0.035                                 | <0.035                      | <0.019                                          | <0.007                                         | <0.024                                          | <0.050                                        | --                                            | <0.013                                                          |
| APR 01... | <0.035                                 | --                         | <0.003                                            | <0.035                                 | <0.035                      | <0.019                                          | <0.007                                         | 0.140                                           | <0.050                                        | --                                            | <0.013                                                          |
| 19...     | <0.035                                 | --                         | <0.003                                            | <0.035                                 | <0.035                      | <0.019                                          | <0.007                                         | 0.680                                           | <0.050                                        | --                                            | <0.013                                                          |
| MAY 06... | <0.035                                 | <0.010                     | <0.003                                            | <0.035                                 | <0.035                      | <0.019                                          | <0.007                                         | 0.490                                           | <0.050                                        | <0.010                                        | <0.013                                                          |
| 20...     | <0.035                                 | <0.010                     | <0.003                                            | <0.035                                 | <0.035                      | <0.019                                          | <0.007                                         | E0.130                                          | <0.050                                        | <0.010                                        | <0.013                                                          |
| JUN 04... | <0.035                                 | 0.040                      | <0.003                                            | <0.035                                 | <0.035                      | <0.019                                          | <0.007                                         | <0.024                                          | <0.050                                        | <0.010                                        | <0.013                                                          |
| 17...     | <0.035                                 | 0.020                      | <0.003                                            | <0.035                                 | <0.035                      | <0.019                                          | <0.007                                         | 0.150                                           | <0.050                                        | 0.020                                         | <0.013                                                          |
| JUL 01... | <0.035                                 | --                         | <0.003                                            | <0.035                                 | <0.035                      | <0.019                                          | <0.007                                         | E0.530                                          | <0.050                                        | --                                            | <0.013                                                          |
| 16...     | --                                     | --                         | <0.003                                            | --                                     | --                          | --                                              | --                                             | --                                              | --                                            | --                                            | <0.013                                                          |
| 30...     | <0.035                                 | --                         | <0.003                                            | <0.035                                 | <0.035                      | <0.019                                          | <0.007                                         | 0.190                                           | <0.050                                        | --                                            | <0.013                                                          |
| AUG 12... | <0.035                                 | --                         | <0.003                                            | <0.035                                 | <0.035                      | <0.019                                          | <0.007                                         | <0.024                                          | <0.050                                        | --                                            | <0.013                                                          |
| 30...     | --                                     | --                         | <0.003                                            | --                                     | --                          | --                                              | --                                             | --                                              | --                                            | --                                            | <0.013                                                          |
| SEP 04... | <0.035                                 | --                         | <0.003                                            | <0.035                                 | <0.035                      | <0.019                                          | <0.007                                         | <0.024                                          | <0.050                                        | --                                            | <0.013                                                          |
| 17...     | <0.035                                 | --                         | <0.003                                            | <0.035                                 | <0.035                      | <0.019                                          | <0.007                                         | <0.024                                          | <0.050                                        | --                                            | <0.013                                                          |

## BED SEDIMENT DATA, AUGUST 1995 TO SEPTEMBER 1996

| DATE     | CALCIUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34830) | MAGNE-<br>SIUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34900) | SODIUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34960)            | POTAS-<br>SIUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34940) | SULFUR<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34970)         | PHOS-<br>PHORUS<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34935) | ALUM-<br>INUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34790) | ANTI-<br>MONY<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34795) | ARSENIC<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34800)                       | BARIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34805)                | BERYL-<br>LIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34810)               | BISMUTH<br>BOT MAT<br><180UWS<br>FIELD<br>(UG/G)<br>(34816)              |
|----------|--------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------|
|          |                                                              |                                                                     |                                                                        |                                                                     |                                                                    |                                                                      |                                                                    |                                                                   |                                                                                   |                                                                           |                                                                                  |                                                                          |
|          |                                                              |                                                                     |                                                                        |                                                                     |                                                                    |                                                                      |                                                                    |                                                                   |                                                                                   |                                                                           |                                                                                  |                                                                          |
|          |                                                              |                                                                     |                                                                        |                                                                     |                                                                    |                                                                      |                                                                    |                                                                   |                                                                                   |                                                                           |                                                                                  |                                                                          |
| AUG 1995 |                                                              |                                                                     |                                                                        |                                                                     |                                                                    |                                                                      |                                                                    |                                                                   |                                                                                   |                                                                           |                                                                                  |                                                                          |
| 23...    | 0.92                                                         | 0.84                                                                | 0.68                                                                   | 1.7                                                                 | <0.05                                                              | 0.10                                                                 | 6.7                                                                | 0.8                                                               | 12                                                                                | 660                                                                       | 2                                                                                | <10                                                                      |
| DATE     | CADMIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34825)  | CERIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34835)          | CHRO-<br>MIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34840)      | COBALT<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34845)          | COPPER<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34850)         | EURO-<br>PIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34855)    | GALLIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34860)        | GOLD<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34870)          | HOLMIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34875)                       | IRON<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34880)                  | LANTHA-<br>NIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34885)              | LEAD<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34890)                 |
|          |                                                              |                                                                     |                                                                        |                                                                     |                                                                    |                                                                      |                                                                    |                                                                   |                                                                                   |                                                                           |                                                                                  |                                                                          |
|          |                                                              |                                                                     |                                                                        |                                                                     |                                                                    |                                                                      |                                                                    |                                                                   |                                                                                   |                                                                           |                                                                                  |                                                                          |
|          |                                                              |                                                                     |                                                                        |                                                                     |                                                                    |                                                                      |                                                                    |                                                                   |                                                                                   |                                                                           |                                                                                  |                                                                          |
| AUG 1995 |                                                              |                                                                     |                                                                        |                                                                     |                                                                    |                                                                      |                                                                    |                                                                   |                                                                                   |                                                                           |                                                                                  |                                                                          |
| 23...    | 0.3                                                          | 73                                                                  | 65                                                                     | 13                                                                  | 18                                                                 | <2                                                                   | 18                                                                 | <8                                                                | <4                                                                                | 3.2                                                                       | 40                                                                               | 16                                                                       |
| DATE     | LITHIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34895)  | MANGA-<br>NESE<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34905)  | MERCURY<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34910)            | MOLYB-<br>DENUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34915) | NEODYM-<br>IUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34920) | NICKEL<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34925)           | NIOBIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34930)        | SCAN-<br>DIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34945) | SELE-<br>NIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34950)                 | SILVER<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34955)                | STRON-<br>TIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34965)               | TANTA-<br>LUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34975)        |
|          |                                                              |                                                                     |                                                                        |                                                                     |                                                                    |                                                                      |                                                                    |                                                                   |                                                                                   |                                                                           |                                                                                  |                                                                          |
|          |                                                              |                                                                     |                                                                        |                                                                     |                                                                    |                                                                      |                                                                    |                                                                   |                                                                                   |                                                                           |                                                                                  |                                                                          |
|          |                                                              |                                                                     |                                                                        |                                                                     |                                                                    |                                                                      |                                                                    |                                                                   |                                                                                   |                                                                           |                                                                                  |                                                                          |
| AUG 1995 |                                                              |                                                                     |                                                                        |                                                                     |                                                                    |                                                                      |                                                                    |                                                                   |                                                                                   |                                                                           |                                                                                  |                                                                          |
| 23...    | 30                                                           | 1100                                                                | 0.03                                                                   | <2                                                                  | 34                                                                 | 30                                                                   | 13                                                                 | 10                                                                | 0.5                                                                               | 0.2                                                                       | 130                                                                              | <40                                                                      |
| DATE     | THORIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34980)  | TIN<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34985)             | TITA-<br>NIUM,<br>SED, BM<br>WS, <63U<br>DRY WGT<br>PERCENT<br>(49274) | URANIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(35000)         | VANA-<br>DIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(35005)  | YTTER-<br>BIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(35015)   | YTTRIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(35010)        | ZINC<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(35020)          | CARBON,<br>ORGANIC<br>SED, BM<br>WS, <63U<br>DW, REC<br>(PER-<br>CENT)<br>(49266) | CARBON,<br>ORGANIC<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(G/KG)<br>(49271) | CARBON,<br>INORG,<br>SED, BM<br>WS, <63U<br>DW, REC<br>(PER-<br>CENT)<br>(49269) | CARBON,<br>INORG,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(G/KG)<br>(49270) |
|          |                                                              |                                                                     |                                                                        |                                                                     |                                                                    |                                                                      |                                                                    |                                                                   |                                                                                   |                                                                           |                                                                                  |                                                                          |
|          |                                                              |                                                                     |                                                                        |                                                                     |                                                                    |                                                                      |                                                                    |                                                                   |                                                                                   |                                                                           |                                                                                  |                                                                          |
|          |                                                              |                                                                     |                                                                        |                                                                     |                                                                    |                                                                      |                                                                    |                                                                   |                                                                                   |                                                                           |                                                                                  |                                                                          |
| AUG 1995 |                                                              |                                                                     |                                                                        |                                                                     |                                                                    |                                                                      |                                                                    |                                                                   |                                                                                   |                                                                           |                                                                                  |                                                                          |
| 23...    | 11                                                           | <10                                                                 | 0.350                                                                  | 4.2                                                                 | 100                                                                | 2                                                                    | 24                                                                 | 91                                                                | 0.18                                                                              | 9.90                                                                      | 1.16                                                                             | 1.10                                                                     |

## 07288955 YAZOO RIVER BELOW STEELE BAYOU NEAR LONG LAKE, MS--Continued

## BED SEDIMENT DATA, AUGUST 1995 TO SEPTEMBER 1996

| DATE              | PCB,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49459)                        | ALPHA-<br>BHC,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49338)               | BETA-<br>BHC,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49339)                  | ALDRIN,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49319)                        | CIS-<br>CHLOR-<br>DANE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49320)        | OXY-<br>CHLOR-<br>DANE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49318)        | TRANS-<br>CHLOR-<br>DANE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49321)     | CHLORO-<br>NEB,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49322)               | DCPA,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49324)                        | O, P'-<br>DDD,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49325)                 | P, P'-<br>DDD,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49326)               | O, P'-<br>DDE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49327)                |
|-------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| AUG 1995<br>23... | <50                                                                                 | <1.00                                                                                | <1.00                                                                                  | <1.00                                                                                  | <1.00                                                                                  | <1.00                                                                                  | <1.00                                                                                 | <5.00                                                                                 | <5.00                                                                                | 1.40                                                                                   | 16.0                                                                                 | <1.00                                                                                 |
| DATE              | P, P'-<br>DDE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49328)              | O, P'-<br>DDT,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49329)               | P, P'-<br>DDT,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49330)                 | DIEL-<br>DRIN,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49331)                 | ENDO-<br>SULFAN<br>I,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49332)          | ENDRIN,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49335)                        | HEPTA-<br>CHLOR,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49341)              | HEPTA-<br>CHLOR<br>EPOXIDE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49342)    | ISODRIN<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49344)                      | LINDANE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49345)                        | METHOXY<br>CHLOR,<br>O, P'-,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49347) | METHOXY<br>CHLOR<br>P, P'-,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49346)   |
| AUG 1995<br>23... | 27.0                                                                                | <2.00                                                                                | 4.80                                                                                   | <1.00                                                                                  | <1.00                                                                                  | <2.00                                                                                  | <1.00                                                                                 | <1.00                                                                                 | <1.00                                                                                | <1.00                                                                                  | <5.00                                                                                | <5.00                                                                                 |
| DATE              | MIREX,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49348)                      | CIS-<br>NONA-<br>CHLOR,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49316)      | TRANS-<br>NONA-<br>CHLOR,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49317)      | CIS-<br>PER-<br>METHRIN<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49349)        | TRANS-<br>PER-<br>METHRIN<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49350)      | TOXA-<br>PER-<br>PHENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49351)         | ACENAPH<br>THENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49429)              | ACENAPH<br>THYLENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49428)            | ACRI-<br>DINE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49430)                | PHENOL<br>C8-<br>ALKYL-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49424)        | ANTHRA-<br>CENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49434)              | 9,10-<br>ANTHRA-<br>QUINONE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49437)   |
| AUG 1995<br>23... | <1.00                                                                               | <1.00                                                                                | <1.00                                                                                  | <5.00                                                                                  | <5.00                                                                                  | <200                                                                                   | <50                                                                                   | E26                                                                                   | E18                                                                                  | <50                                                                                    | E13                                                                                  | E12                                                                                   |
| DATE              | AZO-<br>BENZENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49443)             | BENZ(A)<br>ANTHRA-<br>CENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49436)   | BENZOCIN-<br>NOLINE<br>BED MAT<br>WS, <2MM<br>REC<br>(UG/KG)<br>(49468)                | BENZOB-<br>FLUOR-<br>ANTHENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49458)   | BENZO K<br>FLUOR-<br>ANTHENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49397)   | BENZO(G<br>HI)PERY<br>LENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49408)     | BENZO<br>(A)<br>PYRENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49389)        | 2,2'-BI<br>QUINO-<br>LINE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49391)     | METHANE<br>2CHLORO<br>ETHOXY<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49401) | PHTHALA<br>TE, BIS2<br>ETHHEXL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49426) | 4-BROMO<br>O-DI-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49454)  | PHTHALA<br>TEBUTYL<br>BENZYL-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49427) |
| AUG 1995<br>23... | <50                                                                                 | E39                                                                                  | <50                                                                                    | 54                                                                                     | E24                                                                                    | <50                                                                                    | E40                                                                                   | <50                                                                                   | <50                                                                                  | E67                                                                                    | <50                                                                                  | E43                                                                                   |
| DATE              | CARBA-<br>ZOLE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49449)              | M-CRE-<br>SOL, 4-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49422) | NAPTHAL-<br>ENE, 2-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49407) | PHENOL,<br>2CHLORO-<br>BED MAT<br>WS, <2MM<br>DRY WGT<br>(UG/KG)<br>(49467)            | 4CHLORO<br>PHNPHN<br>LEATHER<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49455)   | CHRY-<br>SENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49450)                  | P-<br>CRESOL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49451)                  | DIBENZ<br>(AH), AN<br>THRACEN<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49461) | THIOPH<br>ENE, DI-<br>BENZO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49452) | PHTHAL-<br>ATE, D<br>DIBUTYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49381)   | BENZENE<br>O-DI-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49439)  | BENZENE<br>M-DI-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49441)   |
| AUG 1995<br>23... | <50                                                                                 | <50                                                                                  | <50                                                                                    | <50                                                                                    | <50                                                                                    | E18                                                                                    | 70                                                                                    | <50                                                                                   | E19                                                                                  | E49                                                                                    | <50                                                                                  | <50                                                                                   |
| DATE              | BENZENE<br>P-DI-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49442) | PHTHAL-<br>ATE, D<br>IETHYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49383)  | NAPTHAL-<br>ENE, 12<br>DIMETHL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49403) | NAPTHAL-<br>ENE, 16<br>DIMETHL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49404) | NAPTHAL-<br>ENE, 26<br>DIMETHL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49406) | 3,5-<br>XYLENOL<br>METHYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49421)      | PHTHAL-<br>ATE, DI-<br>METHYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49384) | TOLUENE<br>2,4-DI-<br>NITRO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49395)  | TOLUENE<br>2,6-DI-<br>NITRO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49396) | PHTHAL<br>ATE, D<br>IOCTYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49382)     | NAPTHAL<br>ENE, 2-<br>ETHYL-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49948) | FLUOR-<br>ANTHENE<br>BED MAT<br>WS, <2MM<br>DRY WGT<br>REC<br>(UG/KG)<br>(49466)      |
| AUG 1995<br>23... | <50                                                                                 | E26                                                                                  | <50                                                                                    | E18                                                                                    | E32                                                                                    | <50                                                                                    | E6.0                                                                                  | <50                                                                                   | <50                                                                                  | <50                                                                                    | <50.0                                                                                | E27                                                                                   |
| DATE              | 9H-FLU-<br>ORENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49399)            | BENZENE<br>HEXA-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49343)  | INDENO<br>123-CD<br>PYRENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49390)     | ISOPHOR-<br>ONE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49400)                | ISO-<br>QUINO-<br>LINE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49394)        | ANTHRA-<br>CENE, 2-<br>METHYL-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49435) | 9H-FLU-<br>ORENE,<br>1METHYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49398)  | PHENAN<br>THRENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49410)              | PYRENE,<br>1-<br>METHYL,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49388)     | 4HCYPEN<br>PHENAN<br>THRENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49411)    | NAPHTH-<br>ALENE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49402)            | BENZENE<br>NITRO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49444)             |
| AUG 1995<br>23... | E24                                                                                 | <50.0                                                                                | <50                                                                                    | <50                                                                                    | E19                                                                                    | <50                                                                                    | <50                                                                                   | E14                                                                                   | <50                                                                                  | E17                                                                                    | E11                                                                                  | <50                                                                                   |



07288955 YAZOO RIVER BELOW STEELE BAYOU NEAR LONG LAKE, MS--Continued

## BED SEDIMENT DATA, AUGUST 1995 TO SEPTEMBER 1996

| DATE     | DPROPYL<br>AMINE, N<br>NITROSO<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49431) | DIPHNYL<br>AMINE, N<br>NITROSO<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49433) | PENTA-<br>CHLORO-<br>ANISOLE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49460) | BENZENE<br>NITRO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49446) | PHENAN-<br>THRENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49409) | PHENAN-<br>THRI-<br>DINE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49393) | PHENOL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49413) | PYRENE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49387) | QUINO-<br>LINE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49392) | BENZENE<br>124TRI-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49438) | NAPHTAL<br>ENE, 236<br>TRIMETH<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49405) |
|----------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| AUG 1995 |                                                                                        |                                                                                        |                                                                                      |                                                                           |                                                                           |                                                                                  |                                                                |                                                                 |                                                                         |                                                                                       |                                                                                        |
| 23...    | <50                                                                                    | <50                                                                                    | <50                                                                                  | <50                                                                       | E9.0                                                                      | <50                                                                              | E11                                                            | E24                                                             | <50                                                                     | <50                                                                                   | <50                                                                                    |

## FISH LIVER DATA, AUGUST 1995 TO SEPTEMBER 1996

| DATE     | ALUMI-<br>NUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49237) | ANTI-<br>MONY,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49246)  | ARSENIC<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49247) | BARIUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49238)          | BERYL-<br>LIUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49248) | BORON,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49239)         | CADMIUM<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49249) | CHROM-<br>IUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49240)  | COBALT,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49250) | COPPER,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49241)      | IRON,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49242) |
|----------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------|
| AUG 1995 |                                                                            |                                                                             |                                                                     |                                                                              |                                                                             |                                                                            |                                                                     |                                                                             |                                                                     |                                                                          |                                                                   |
| 23...    | 15                                                                         | <0.1                                                                        | 0.7                                                                 | 0.3                                                                          | <0.1                                                                        | 0.7                                                                        | 4.5                                                                 | <0.5                                                                        | 0.2                                                                 | 71                                                                       | 270                                                               |
| 23...    | 250                                                                        | <0.2                                                                        | 0.6                                                                 | 1.3                                                                          | <0.2                                                                        | 0.7                                                                        | 3.0                                                                 | 0.7                                                                         | 0.4                                                                 | 67                                                                       | 1700                                                              |
| DATE     | LEAD,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49251)          | MANGAN-<br>ESE,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49243) | MERCURY<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49258) | MOLYB-<br>DENUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49252) | NICKEL,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49253)         | SELEN-<br>IUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49254) | SILVER,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49255) | STRON-<br>TIUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49244) | URANIUM<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49257) | VANA-<br>DIUM<br>BIO TIS<br>LIVER<br>DRY WGT<br>REC<br>(UG/G)<br>(49465) | ZINC,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49245) |
| AUG 1995 |                                                                            |                                                                             |                                                                     |                                                                              |                                                                             |                                                                            |                                                                     |                                                                             |                                                                     |                                                                          |                                                                   |
| 23...    | 0.1                                                                        | 6.9                                                                         | 0.2                                                                 | 1.0                                                                          | 0.2                                                                         | 3.8                                                                        | 0.2                                                                 | 0.4                                                                         | <0.1                                                                | 0.9                                                                      | 470                                                               |
| 23...    | 0.2                                                                        | 6.1                                                                         | 4.2                                                                 | 0.7                                                                          | 0.6                                                                         | 8.1                                                                        | 0.2                                                                 | 0.7                                                                         | <0.2                                                                | 2.5                                                                      | 120                                                               |

## FISH TISSUE DATA, AUGUST 1995 TO SEPTEMBER 1996

| DATE     | PCB,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49354)                         | ALPHA-<br>BHC,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49366)               | BETA-<br>BHC,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49365)                | DELTA-<br>BHC,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49364) | ALDRIN,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49353)                 | CIS-<br>CHLOR-<br>DANE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49380)   | OXY-<br>CHLOR<br>DANE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49357) | TRANS-<br>CHLOR-<br>DANE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49379)   | DCPA,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49378)                      | O, P'-<br>DDD,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49374) |
|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------|
| AUG 1995 |                                                                                   |                                                                                   |                                                                                   |                                                                     |                                                                              |                                                                                |                                                                             |                                                                                  |                                                                                 |                                                                     |
| 23...    | 250                                                                               | <5.00                                                                             | <5.00                                                                             | <5.00                                                               | <5.00                                                                        | 8.00                                                                           | <5.00                                                                       | 7.30                                                                             | <5.00                                                                           | 140                                                                 |
| SEP      |                                                                                   |                                                                                   |                                                                                   |                                                                     |                                                                              |                                                                                |                                                                             |                                                                                  |                                                                                 |                                                                     |
| 28...    | 200                                                                               | <5.00                                                                             | <5.00                                                                             | <5.00                                                               | <5.00                                                                        | 14.0                                                                           | <5.00                                                                       | 9.90                                                                             | <5.00                                                                           | 48.0                                                                |
| DATE     | P, P'-<br>DDD,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49375)               | O, P'-<br>DDE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49373)               | P, P'-<br>DDE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49372)               | O, P'-<br>DDT,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49377) | P, P'-<br>DDT,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49376)          | DIEL-<br>DRIN,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49371)            | ENDRIN,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49370)                | HEPTA-<br>CHLOR,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49369)            | HEPTA-<br>CHLOR<br>EPOXIDE<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49368) | LINDANE<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49363)        |
| AUG 1995 |                                                                                   |                                                                                   |                                                                                   |                                                                     |                                                                              |                                                                                |                                                                             |                                                                                  |                                                                                 |                                                                     |
| 23...    | E1700                                                                             | <5.00                                                                             | 2700                                                                              | <5.00                                                               | E390                                                                         | 32.0                                                                           | <5.00                                                                       | <5.00                                                                            | <5.00                                                                           | <5.00                                                               |
| SEP      |                                                                                   |                                                                                   |                                                                                   |                                                                     |                                                                              |                                                                                |                                                                             |                                                                                  |                                                                                 |                                                                     |
| 28...    | 550                                                                               | 18.0                                                                              | 1600                                                                              | <10.0                                                               | E42.0                                                                        | 32.0                                                                           | <5.40                                                                       | <5.00                                                                            | <5.00                                                                           | <5.00                                                               |
| DATE     | METHOXY<br>CHLOR,<br>O, P'-,<br>BIOTA,<br>WH ORG<br>WW, REC<br>PERCENT<br>(49289) | METHOXY<br>CHLOR,<br>P, P'-,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49362) | METHOXY<br>CHLOR,<br>P, P'-,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49361) | MIREX,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49360)         | CIS-<br>NONA-<br>CHLOR,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49359) | TRANS-<br>NONA-<br>CHLOR,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49358) | TOXA-<br>PHENE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49355)        | BENZENE<br>HEXA-<br>CHLORO-<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49367) | PENTA<br>CHLORO<br>ANISOLE<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49356) |                                                                     |
| AUG 1995 |                                                                                   |                                                                                   |                                                                                   |                                                                     |                                                                              |                                                                                |                                                                             |                                                                                  |                                                                                 |                                                                     |
| 23...    | 12.8                                                                              | <5.00                                                                             | <5.00                                                                             | 6.30                                                                | <5.00                                                                        | 8.60                                                                           | 4700                                                                        | <5.00                                                                            | <5.30                                                                           |                                                                     |
| SEP      |                                                                                   |                                                                                   |                                                                                   |                                                                     |                                                                              |                                                                                |                                                                             |                                                                                  |                                                                                 |                                                                     |
| 28...    | 14.5                                                                              | <13.0                                                                             | <10.0                                                                             | <5.00                                                               | 11.0                                                                         | 15.0                                                                           | 1600                                                                        | <5.00                                                                            | 11.0                                                                            |                                                                     |



## 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.

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 the 1996 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 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: Feb. 4, Mar. 5-11, 13-19. 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 (ft <sup>3</sup> /s) | Gage Height (ft) | Date | Time | Discharge (ft <sup>3</sup> /s) | Gage Height (ft) |
|---------|------|--------------------------------|------------------|------|------|--------------------------------|------------------|
| Apr. 23 | 2330 | *20,600                        | *21.17           |      |      |                                |                  |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC   | JAN   | FEB   | MAR   | APR    | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|-------|-------|-------|-------|--------|------|------|------|------|------|
| 1     | 74   | 92   | 224   | 425   | 4460  | 652   | 1910   | 1010 | 193  | 91   | 156  | 306  |
| 2     | 73   | 110  | 225   | 1380  | 3810  | 599   | 1390   | 792  | 1830 | 79   | 154  | 362  |
| 3     | 122  | 242  | 204   | 2250  | 4130  | 516   | 1080   | 583  | 1270 | 70   | 131  | 484  |
| 4     | 255  | 230  | 295   | 2060  | e3700 | 460   | 804    | 464  | 714  | 64   | 128  | 535  |
| 5     | 275  | 227  | 296   | 1990  | 3290  | e398  | 639    | 391  | 596  | 57   | 128  | 449  |
| 6     | 219  | 193  | 213   | 2230  | 2810  | e600  | 559    | 330  | 361  | 54   | 260  | 309  |
| 7     | 162  | 216  | 190   | 2860  | 2580  | e910  | 521    | 293  | 241  | 51   | 193  | 214  |
| 8     | 129  | 404  | 181   | 2970  | 2180  | e1300 | 486    | 261  | 184  | 50   | 201  | 168  |
| 9     | 111  | 334  | 1380  | 2690  | 1990  | e2100 | 450    | 230  | 154  | 49   | 218  | 157  |
| 10    | 95   | 302  | 1710  | 3030  | 2070  | e1700 | 407    | 211  | 144  | 94   | 282  | 151  |
| 11    | 85   | 411  | 1470  | 3120  | 2220  | e1000 | 368    | 195  | 168  | 127  | 184  | 132  |
| 12    | 79   | 781  | 1470  | 2830  | 2200  | 689   | 337    | 206  | 147  | 100  | 135  | 159  |
| 13    | 73   | 700  | 1010  | 2360  | 1690  | e586  | 600    | 195  | 128  | 77   | 129  | 138  |
| 14    | 72   | 547  | 581   | 2040  | 1080  | e620  | 1040   | 176  | 142  | 67   | 131  | 111  |
| 15    | 105  | 349  | 421   | 2110  | 817   | e650  | 2210   | 159  | 306  | 109  | 121  | 94   |
| 16    | 101  | 239  | 761   | 1950  | 698   | e690  | 2910   | 142  | 304  | 208  | 114  | 146  |
| 17    | 89   | 187  | 1340  | 1270  | 615   | e880  | 2610   | 130  | 209  | 290  | 100  | 598  |
| 18    | 83   | 159  | 2520  | 951   | 553   | e1290 | 2300   | 119  | 155  | 231  | 89   | 863  |
| 19    | 70   | 140  | 4220  | 1260  | 533   | e1790 | 1920   | 110  | 125  | 188  | 144  | 988  |
| 20    | 55   | 128  | 6580  | 1250  | 691   | 1930  | 1210   | 104  | 106  | 133  | 93   | 609  |
| 21    | 50   | 120  | 7210  | 1290  | 885   | 1850  | 2300   | 95   | 100  | 99   | 79   | 323  |
| 22    | 47   | 116  | 7750  | 1160  | 963   | 2170  | 4580   | 91   | 95   | 81   | 76   | 264  |
| 23    | 45   | 121  | 5830  | 950   | 845   | 2410  | 12000  | 87   | 361  | 72   | 75   | 202  |
| 24    | 44   | 477  | 3890  | 1640  | 707   | 1940  | 18100  | 83   | 232  | 70   | 74   | 162  |
| 25    | 42   | 523  | 2280  | 1960  | 613   | 1960  | 13800  | 83   | 119  | 274  | 74   | 145  |
| 26    | 42   | 458  | 864   | 2160  | 540   | 2840  | 11000  | 83   | 114  | 253  | 74   | 125  |
| 27    | 43   | 332  | 593   | 4790  | 494   | 2860  | 7700   | 82   | 433  | 217  | 74   | 242  |
| 28    | 79   | 246  | 495   | 7880  | 486   | 3380  | 4610   | 1070 | 181  | 250  | 95   | 358  |
| 29    | 122  | 223  | 434   | 7360  | 591   | 4830  | 2840   | 1270 | 139  | 219  | 202  | 312  |
| 30    | 124  | 238  | 390   | 8950  | ---   | 3940  | 1560   | 329  | 113  | 195  | 236  | 268  |
| 31    | 116  | ---  | 371   | 6900  | ---   | 2780  | ---    | 199  | ---  | 171  | 235  | ---  |
| TOTAL | 3081 | 8845 | 55398 | 86066 | 48241 | 50320 | 102241 | 9573 | 9364 | 4090 | 4385 | 9374 |
| MEAN  | 99.4 | 295  | 1787  | 2776  | 1663  | 1623  | 3408   | 309  | 312  | 132  | 141  | 312  |
| MAX   | 275  | 781  | 7750  | 8950  | 4460  | 4830  | 18100  | 1270 | 1830 | 290  | 282  | 988  |
| MIN   | 42   | 92   | 181   | 425   | 486   | 398   | 337    | 82   | 95   | 49   | 74   | 94   |
| CFSM  | .10  | .29  | 1.74  | 2.70  | 1.62  | 1.58  | 3.32   | .30  | .30  | .13  | .14  | .30  |
| IN.   | .11  | .32  | 2.01  | 3.12  | 1.75  | 1.82  | 3.70   | .35  | .34  | .15  | .16  | .34  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1996, 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 |
|------|------|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 372  | 902  | 2245  | 3156 | 2810 | 3306 | 3017 | 1805 | 789  | 432  | 215  | 251  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 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 | 234   | 185  | 410  | 1049 | 190  | 89.9 | 33.6 | 60.9 | 46.6 | 31.1 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| (WY) | 1988 | 1982 | 1982  | 1986 | 1986 | 1985 | 1986 | 1988 | 1988 | 1988 | 1987 | 1987 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1971 - 1996

|                          | 1995 CALENDAR YEAR | 1996 WATER YEAR | 1971 - 1996 |
|--------------------------|--------------------|-----------------|-------------|
| ANNUAL TOTAL             | 585029             | 390978          | 1604        |
| ANNUAL MEAN              | 1603               | 1068            | 3821        |
| HIGHEST ANNUAL MEAN      |                    |                 | 423         |
| LOWEST ANNUAL MEAN       |                    |                 | 1986        |
| HIGHEST DAILY MEAN       | 39400              | Apr 24          | 62400       |
| LOWEST DAILY MEAN        | 42                 | Oct 25          | 14          |
| ANNUAL SEVEN-DAY MINIMUM | 45                 | Oct 21          | 14          |
| INSTANTANEOUS PEAK FLOW  |                    | 20600           | 71200       |
| INSTANTANEOUS PEAK STAGE |                    | 21.17           | 26.08       |
| INSTANTANEOUS LOW FLOW   |                    | 41              | 13          |
| ANNUAL RUNOFF (CFSM)     | 1.56               | 1.04            | 1.56        |
| ANNUAL RUNOFF (INCHES)   | 21.19              | 14.16           | 21.22       |
| 10 PERCENT EXCEEDS       | 3900               | 2790            | 4000        |
| 50 PERCENT EXCEEDS       | 349                | 307             | 393         |
| 90 PERCENT EXCEEDS       | 73                 | 83              | 67          |

e Estimated

## 07290000 BIG BLACK RIVER NEAR BOVINA, MS

LOCATION.--Lat 32°20'51", long 90°41'48", in 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 Askeys 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 Askeys 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) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Jan. 28 | 0200 | 13,000                            | 28.68               | Apr. 23 | 1700 | *13,500                           | *29.14              |
| Feb. 3  | 0400 | 13,100                            | 28.78               |         |      |                                   |                     |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC    | JAN    | FEB    | MAR   | APR    | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|--------|--------|--------|-------|--------|-------|-------|-------|-------|-------|
| 1     | 449   | 531   | 1520   | 1360   | 12300  | 1250  | 9410   | 10500 | 3860  | 486   | 1910  | 910   |
| 2     | 412   | 604   | 1600   | 1390   | 12400  | 1190  | 8540   | 10400 | 3970  | 548   | 1640  | 949   |
| 3     | 1310  | 658   | 1440   | 1480   | 13100  | 1160  | 8170   | 10500 | 2960  | 534   | 1340  | 793   |
| 4     | 1680  | 690   | 1250   | 1830   | 12600  | 1170  | 6020   | 10600 | 4080  | 480   | 1030  | 679   |
| 5     | 880   | 1130  | 1130   | 2320   | 12100  | 1200  | 3510   | 9800  | 5060  | 437   | 922   | 615   |
| 6     | 1010  | 1120  | 1560   | 3980   | 11600  | 1170  | 2450   | 4710  | 5390  | 408   | 1160  | 595   |
| 7     | 1140  | 980   | 2160   | 8110   | 11200  | 1300  | 2030   | 1990  | 4180  | 384   | 1420  | 668   |
| 8     | 876   | 1430  | 1890   | 8430   | 10900  | 1380  | 1770   | 1560  | 2310  | 362   | 1040  | 797   |
| 9     | 672   | 716   | 1900   | 8170   | 10400  | 2220  | 1580   | 1360  | 1620  | 664   | 1280  | 827   |
| 10    | 592   | 702   | 1990   | 7670   | 8580   | 3040  | 1460   | 1220  | 1310  | 994   | 1220  | 767   |
| 11    | 539   | 1070  | 2530   | 7160   | 5340   | 2620  | 1360   | 1140  | 1100  | 402   | 1300  | 673   |
| 12    | 490   | 1250  | 3030   | 6310   | 3750   | 2200  | 1270   | 968   | 500   | 972   | 603   |       |
| 13    | 449   | 1540  | 2910   | 5520   | 3300   | 2200  | 1720   | 1110  | 868   | 412   | 777   | 567   |
| 14    | 419   | 1820  | 2520   | 5580   | 3160   | 1800  | 2380   | 1050  | 1200  | 402   | 719   | 555   |
| 15    | 403   | 1730  | 2330   | 5670   | 3050   | 1540  | 5540   | 978   | 1300  | 578   | 716   | 561   |
| 16    | 379   | 1460  | 2180   | 5120   | 2750   | 1350  | 7640   | 871   | 1650  | 1920  | 739   | 554   |
| 17    | 362   | 1290  | 1930   | 3840   | 2270   | 1250  | 7840   | 781   | 1410  | 1480  | 658   | 512   |
| 18    | 357   | 1170  | 4840   | 3150   | 1910   | 1160  | 7490   | 719   | 1030  | 967   | 651   | 497   |
| 19    | 356   | 1030  | 11600  | 3120   | 1700   | 1220  | 6740   | 685   | 869   | 705   | 637   | 535   |
| 20    | 359   | 911   | 11300  | 3120   | 1610   | 1410  | 5310   | 639   | 820   | 485   | 579   | 467   |
| 21    | 354   | 817   | 10700  | 3450   | 1570   | 2020  | 3980   | 601   | 766   | 518   | 594   | 458   |
| 22    | 348   | 745   | 10200  | 3230   | 1620   | 2620  | 4500   | 566   | 701   | 532   | 566   | 747   |
| 23    | 342   | 709   | 9850   | 2620   | 1680   | 2670  | 12100  | 540   | 630   | 486   | 538   | 1040  |
| 24    | 338   | 694   | 9670   | 3520   | 1710   | 2470  | 12700  | 521   | 595   | 437   | 502   | 1020  |
| 25    | 329   | 676   | 9690   | 5370   | 1720   | 4590  | 11800  | 566   | 660   | 454   | 474   | 856   |
| 26    | 325   | 663   | 9520   | 7310   | 1690   | 7640  | 11700  | 484   | 598   | 382   | 446   | 720   |
| 27    | 330   | 668   | 8410   | 12600  | 1560   | 7660  | 11700  | 446   | 551   | 363   | 429   | 640   |
| 28    | 475   | 765   | 6350   | 13000  | 1430   | 7910  | 11000  | 517   | 584   | 371   | 405   | 599   |
| 29    | 462   | 1340  | 3780   | 12700  | 1330   | 7460  | 10500  | 1590  | 570   | 4620  | 453   | 544   |
| 30    | 782   | 1520  | 2080   | 12400  | ---    | 6600  | 10700  | 1940  | 518   | 4540  | 670   | 515   |
| 31    | 533   | ---   | 1550   | 12300  | ---    | 9180  | ---    | 2460  | ---   | 2380  | 721   | ---   |
| TOTAL | 17752 | 30429 | 143410 | 181830 | 158330 | 92450 | 192910 | 82074 | 52128 | 28231 | 26508 | 20263 |
| MEAN  | 573   | 1014  | 4626   | 5865   | 5460   | 2982  | 6430   | 2648  | 1738  | 911   | 855   | 675   |
| MAX   | 1680  | 1820  | 11600  | 13000  | 13100  | 9180  | 12700  | 10600 | 5390  | 4620  | 1910  | 1040  |
| MIN   | 325   | 531   | 1130   | 1360   | 1330   | 1160  | 1270   | 446   | 518   | 362   | 405   | 458   |
| CFSM  | .20   | .36   | 1.65   | 2.09   | 1.94   | 1.06  | 2.29   | .94   | .62   | .32   | .30   | .24   |
| IN.   | .23   | .40   | 1.90   | 2.41   | 2.09   | 1.22  | 2.55   | 1.09  | .69   | .37   | .35   | .27   |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 1996, BY WATER YEAR (WY)

|      | 725  | 1544  | 4150  | 6667  | 7574  | 7904  | 7414  | 4837  | 1701 | 1424  | 876  | 555  |
|------|------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|------|
| MEAN | 725  | 1544  | 4150  | 6667  | 7574  | 7904  | 7414  | 4837  | 1701 | 1424  | 876  | 555  |
| MAX  | 6547 | 11050 | 27400 | 24360 | 20700 | 19780 | 25100 | 23860 | 6988 | 13730 | 4059 | 3800 |
| (WY) | 1976 | 1958  | 1983  | 1974  | 1983  | 1973  | 1983  | 1983  | 1989 | 1940  | 1975 | 1979 |
| MIN  | 78.8 | 103   | 213   | 216   | 1156  | 1040  | 559   | 398   | 209  | 172   | 121  | 106  |
| (WY) | 1955 | 1940  | 1955  | 1956  | 1986  | 1936  | 1963  | 1963  | 1988 | 1952  | 1943 | 1952 |

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1936 - 1996

|                          | 1449710 | 1026315 | 3787        |
|--------------------------|---------|---------|-------------|
| ANNUAL TOTAL             | 1449710 | 1026315 | 3787        |
| ANNUAL MEAN              | 3972    | 2804    | 10950       |
| HIGHEST ANNUAL MEAN      |         |         | 792         |
| LOWEST ANNUAL MEAN       |         |         | 90600       |
| HIGHEST DAILY MEAN       | 40900   | Apr 29  | May 24 1983 |
| LOWEST DAILY MEAN        | 185     | Sep 16  | Oct 1 1954  |
| ANNUAL SEVEN-DAY MINIMUM | 189     | Sep 13  | Sep 30 1954 |
| INSTANTANEOUS PEAK FLOW  |         | 13500   | May 24 1983 |
| INSTANTANEOUS PEAK STAGE |         | 29.14   | May 21 1983 |
| INSTANTANEOUS LOW FLOW   |         | 320     | Oct 2 1954  |
| ANNUAL RUNOFF (CFSM)     | 1.41    | 1.00    | 1.35        |
| ANNUAL RUNOFF (INCHES)   | 19.18   | 13.58   | 18.30       |
| 10 PERCENT EXCEEDS       | 11100   | 9250    | 10500       |
| 50 PERCENT EXCEEDS       | 1440    | 1300    | 1120        |
| 90 PERCENT EXCEEDS       | 330     | 465     | 194         |

LOCATION.--Lat 32°00'55", long 90°53'00", in lot 16, T.12 N., R.3 E., Washington Meridian, Claiborne County, Hydrologic Unit 08060203, near left 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.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15,000 ft<sup>3</sup>/s and maximum (\*):

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1996, BY WATER YEAR (WY)

| SUMMARY STATISTICS | FOR 1995 CALENDAR YEAR | FOR 1996 WATER YEAR | WATER YEARS 1961 - 1996 |
|--------------------|------------------------|---------------------|-------------------------|
|--------------------|------------------------|---------------------|-------------------------|

e Estimated

## HOMOCHITTO RIVER BASIN

07291000 HOMOCHITTO RIVER AT EDDICETON, MS

LOCATION.--Lat 31°30'10", long 90°46'35", 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, 0.4 mi upstream from McCall Creek, and 0.8 mi east of Eddiceton.

DRAINAGE AREA.--181 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 1281: 1939-40, 1942-44, 1949-50. WDR MS-89-1: Drainage area.

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.

REMARKS.--Estimated daily discharges: Feb. 3-7. 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 9,000 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) |
|---------|------|--------------------------------|------------------|--------|------|--------------------------------|------------------|
| Dec. 18 | 1830 | *11,900                        | *14.15           | Mar. 7 | 0600 | 9,170                          | 12.81            |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT  | NOV  | DEC   | JAN  | FEB  | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|-------|------|------|-------|-------|------|------|------|------|------|
| 1     | 46   | 45   | 55    | 149  | 206  | 134   | 421   | 199  | 126  | 50   | 85   | 53   |
| 2     | 45   | 55   | 56    | 1640 | 1450 | 129   | 263   | 186  | 1550 | 47   | 66   | 52   |
| 3     | 186  | 53   | 55    | 338  | e980 | 123   | 224   | 174  | 353  | 45   | 57   | 50   |
| 4     | 118  | 45   | 60    | 199  | e780 | 119   | 207   | 167  | 158  | 43   | 55   | 48   |
| 5     | 61   | 44   | 60    | 148  | e420 | 119   | 182   | 161  | 120  | 47   | 50   | 52   |
| 6     | 51   | 43   | 157   | 142  | e260 | 398   | 291   | 156  | 109  | 49   | 85   | 60   |
| 7     | 46   | 111  | 140   | 135  | e214 | 3580  | 244   | 150  | 96   | 49   | 80   | 55   |
| 8     | 46   | 90   | 88    | 102  | 201  | 643   | 184   | 146  | 99   | 50   | 52   | 48   |
| 9     | 45   | 53   | 296   | 90   | 189  | 382   | 162   | 142  | 101  | 51   | 58   | 58   |
| 10    | 44   | 66   | 136   | 83   | 176  | 294   | 146   | 139  | 88   | 55   | 68   | 70   |
| 11    | 43   | 589  | 91    | 88   | 163  | 237   | 138   | 144  | 80   | 55   | 57   | 49   |
| 12    | 43   | 126  | 79    | 115  | 148  | 208   | 134   | 146  | 75   | 57   | 58   | 47   |
| 13    | 47   | 78   | 74    | 89   | 140  | 185   | 1070  | 130  | 85   | 57   | 62   | 44   |
| 14    | 57   | 67   | 70    | 80   | 140  | 166   | 1060  | 127  | 553  | 63   | 52   | 44   |
| 15    | 50   | 61   | 67    | 72   | 141  | 149   | 1880  | 123  | 574  | 84   | 50   | 45   |
| 16    | 45   | 60   | 82    | 69   | 131  | 137   | 484   | 118  | 225  | 66   | 49   | 48   |
| 17    | 43   | 58   | 203   | 65   | 127  | 130   | 326   | 114  | 103  | 62   | 50   | 50   |
| 18    | 41   | 58   | 6890  | 71   | 128  | 182   | 271   | 112  | 76   | 61   | 49   | 46   |
| 19    | 41   | 57   | 2230  | 78   | 141  | 209   | 241   | 110  | 64   | 60   | 47   | 46   |
| 20    | 41   | 58   | 626   | 65   | 255  | 141   | 221   | 109  | 58   | 58   | 47   | 46   |
| 21    | 40   | 58   | 405   | 63   | 181  | 121   | 218   | 108  | 59   | 56   | 46   | 71   |
| 22    | 40   | 55   | 294   | 61   | 148  | 114   | 201   | 108  | 61   | 55   | 47   | 71   |
| 23    | 41   | 56   | 199   | 60   | 135  | 109   | 2130  | 110  | 57   | 56   | 46   | 50   |
| 24    | 40   | 55   | 176   | 778  | 127  | 107   | 483   | 110  | 204  | 54   | 49   | 49   |
| 25    | 38   | 53   | 153   | 246  | 121  | 1330  | 296   | 109  | 560  | 56   | 49   | 53   |
| 26    | 39   | 53   | 144   | 1500 | 120  | 457   | 259   | 107  | 134  | 56   | 51   | 53   |
| 27    | 45   | 55   | 136   | 1800 | 120  | 627   | 216   | 106  | 76   | 55   | 50   | 92   |
| 28    | 52   | 55   | 128   | 397  | 134  | 328   | 196   | 104  | 60   | 66   | 50   | 194  |
| 29    | 42   | 57   | 123   | 311  | 139  | 241   | 215   | 1100 | 53   | 50   | 52   | 91   |
| 30    | 42   | 54   | 118   | 274  | ---  | 531   | 273   | 291  | 51   | 45   | 59   | 59   |
| 31    | 44   | ---  | 148   | 230  | ---  | 930   | ---   | 147  | ---  | 45   | 63   | ---  |
| TOTAL | 1602 | 2368 | 13539 | 9538 | 7615 | 12560 | 12636 | 5253 | 6008 | 1703 | 1739 | 1794 |
| MEAN  | 51.7 | 78.9 | 437   | 308  | 263  | 405   | 421   | 169  | 200  | 54.9 | 56.1 | 59.8 |
| MAX   | 186  | 589  | 6890  | 1800 | 1450 | 3580  | 2130  | 1100 | 1550 | 84   | 85   | 194  |
| MIN   | 38   | 43   | 55    | 60   | 120  | 107   | 134   | 104  | 51   | 43   | 46   | 44   |
| CFSM  | .29  | .44  | 2.41  | 1.70 | 1.45 | 2.24  | 2.33  | .94  | 1.11 | .30  | .31  | .33  |
| IN.   | .33  | .49  | 2.78  | 1.96 | 1.57 | 2.58  | 2.60  | 1.08 | 1.23 | .35  | .36  | .37  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1996, BY WATER YEAR (WY)

|      | 1939 | 1940 | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 95.8 | 155  | 324  | 425  | 492  | 529  | 472  | 291  | 139  | 141  | 99.8 | 76.2 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| MAX  | 765  | 742  | 1428 | 1398 | 1169 | 1400 | 1981 | 1818 | 534  | 1036 | 557  | 302  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| (WY) | 1965 | 1958 | 1983 | 1990 | 1979 | 1961 | 1974 | 1953 | 1975 | 1989 | 1992 | 1965 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| MIN  | 31.4 | 37.5 | 62.6 | 54.2 | 70.7 | 100  | 64.4 | 49.9 | 42.3 | 37.5 | 35.3 | 33.3 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| (WY) | 1953 | 1939 | 1944 | 1957 | 1954 | 1955 | 1963 | 1963 | 1972 | 1944 | 1954 | 1956 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

| SUMMARY STATISTICS       | FOR 1995 CALENDAR YEAR | FOR 1996 WATER YEAR | WATER YEARS 1939 - 1996 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL             | 85916                  | 76355               |                         |
| ANNUAL MEAN              | 235                    | 209                 | 269                     |
| HIGHEST ANNUAL MEAN      |                        |                     | 587                     |
| LOWEST ANNUAL MEAN       |                        |                     | 92.8                    |
| HIGHEST DAILY MEAN       | 7260                   | Apr 23              | 34600                   |
| LOWEST DAILY MEAN        | 38                     | Oct 25              | 11                      |
| ANNUAL SEVEN-DAY MINIMUM | 40                     | Oct 20              | 13                      |
| INSTANTANEOUS PEAK FLOW  |                        | 11900               | 55400                   |
| INSTANTANEOUS PEAK STAGE |                        | 14.15               | 24.53                   |
| ANNUAL RUNOFF (CFSM)     | 1.30                   | 1.15                | 1.49                    |
| ANNUAL RUNOFF (INCHES)   | 17.66                  | 15.69               | 20.19                   |
| 10 PERCENT EXCEEDS       | 346                    | 342                 | 440                     |
| 50 PERCENT EXCEEDS       | 92                     | 90                  | 84                      |
| 90 PERCENT EXCEEDS       | 48                     | 46                  | 44                      |

e Estimated



## 07292500 HOMOCHITTO RIVER AT ROSETTA, MS

LOCATION.--Lat 31°19'30", long 91°06'24", in sec.12, T.4 N., R.1 E., Washington Meridian, Franklin County, Hydrologic Unit 08060205, near right bank, near downstream side of pier cap, under bridge, on State Highway 33 at Rosetta, 0.8 mi downstream from Foster Creek, and 4.0 mi upstream from Dry Creek.

DRAINAGE AREA.--787 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1951 to current year, June to November 1906 (gage heights and discharge measurements only), February 1949 to September 1951 (gage heights and discharge measurements only) in reports of U. S. Army Corps of Engineers, Vicksburg district.

REVISED RECORDS.--WSP 1731: 1955(M). WSP 1920: 1955. WDR MS-86-1: 1985 (P). WDR MS-89-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 94.39 ft above sea level. June 16 to Nov. 12, 1906, nonrecording gage at present site, at different datum, December 1976 to April 1978, near right bank on downstream side of Illinois Central and Gulf Railroad bridge, 800 ft upstream and nonrecording gage read twice daily at present site, all at same datum.

REMARKS.--Estimated daily discharges: Feb. 21-29, Mar. 1-4, May 27-31, Jun. 1-5, 11-30, Jul. 1-10. Records good except for estimated discharges, which are poor. Telemeter and satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since February 1949, 37.80 ft, Mar. 31, 1949, from reports of U. S. Army Corps of Engineers, Vicksburg district.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 16,000 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) |
|---------|------|--------------------------------|------------------|---------|------|--------------------------------|------------------|
| Dec. 18 | 2200 | *34,200                        | *16.49           | Jan. 27 | 0045 | 30,900                         | 15.99            |

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL  | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|
| 1     | 248   | 364   | 293   | 311   | 1120  | e500  | 2520  | 906   | e3500 | e310 | 979   | 382   |
| 2     | 259   | 505   | 295   | 3850  | 5330  | e450  | 1050  | 716   | e1200 | e270 | 1500  | 316   |
| 3     | 725   | 634   | 299   | 2130  | 3550  | e420  | 788   | 632   | e900  | e260 | 945   | 294   |
| 4     | 1440  | 496   | 597   | 996   | 1930  | e390  | 689   | 570   | e740  | e280 | 1030  | 266   |
| 5     | 501   | 357   | 542   | 682   | 1300  | 363   | 624   | 530   | e660  | e290 | 568   | 250   |
| 6     | 316   | 365   | 920   | 624   | 1150  | 1030  | 1250  | 493   | 610   | e270 | 470   | 238   |
| 7     | 271   | 589   | 1710  | 838   | 1050  | 8210  | 1500  | 470   | 539   | e260 | 992   | 259   |
| 8     | 257   | 1100  | 653   | 590   | 942   | 2840  | 887   | 439   | 1070  | e270 | 617   | 270   |
| 9     | 266   | 442   | 1380  | 483   | 840   | 1250  | 710   | 430   | 748   | e290 | 400   | 255   |
| 10    | 278   | 325   | 1310  | 472   | 754   | 795   | 603   | 408   | 525   | e300 | 465   | 327   |
| 11    | 283   | 2310  | 567   | 484   | 676   | 600   | 541   | 510   | e420  | 284  | 1210  | 372   |
| 12    | 278   | 1560  | 439   | 564   | 561   | 498   | 517   | 624   | e390  | 247  | 699   | 260   |
| 13    | 280   | 568   | 433   | 486   | 485   | 442   | 3450  | 437   | e1100 | 231  | 754   | 227   |
| 14    | 513   | 405   | 419   | 407   | 464   | 409   | 4740  | 397   | e2300 | 224  | 454   | 216   |
| 15    | 510   | 356   | 405   | 384   | 458   | 382   | 9490  | 382   | e660  | 290  | 342   | 216   |
| 16    | 326   | 337   | 557   | 376   | 407   | 358   | 3850  | 364   | e450  | 326  | 310   | 229   |
| 17    | 291   | 318   | 1190  | 360   | 352   | 331   | 1930  | 358   | e360  | 310  | 296   | 280   |
| 18    | 271   | 320   | 19800 | 365   | 352   | 522   | 1440  | 353   | e310  | 316  | 291   | 260   |
| 19    | 267   | 323   | 11400 | 453   | 369   | 806   | 1250  | 348   | e290  | 293  | 276   | 228   |
| 20    | 267   | 335   | 2760  | 356   | 1070  | 453   | 1090  | 345   | e300  | 304  | 265   | 222   |
| 21    | 256   | 332   | 1360  | 340   | e800  | 299   | 951   | 335   | e270  | 275  | 255   | 408   |
| 22    | 254   | 300   | 922   | 354   | e660  | 263   | 840   | 320   | e500  | 230  | 229   | 472   |
| 23    | 252   | 294   | 663   | 353   | e600  | 251   | 7190  | 315   | e700  | 218  | 219   | 344   |
| 24    | 251   | 305   | 494   | 2650  | e540  | 257   | 3740  | 313   | e1400 | 300  | 222   | 273   |
| 25    | 245   | 288   | 392   | 2060  | e500  | 3080  | 1680  | 318   | e600  | 391  | 255   | 254   |
| 26    | 246   | 282   | 334   | 5010  | e480  | 2930  | 1240  | 318   | e350  | 291  | 280   | 243   |
| 27    | 277   | 291   | 296   | 12300 | e500  | 2070  | 1160  | e500  | e300  | 259  | 249   | 522   |
| 28    | 369   | 296   | 256   | 2910  | e540  | 1410  | 898   | e3000 | e280  | 260  | 233   | 1350  |
| 29    | 357   | 305   | 230   | 1660  | e560  | 949   | 873   | e500  | e290  | 655  | 278   | 1310  |
| 30    | 303   | 309   | 233   | 1390  | ---   | 861   | 1310  | e330  | e300  | 376  | 385   | 573   |
| 31    | 328   | ---   | 250   | 1350  | ---   | 2020  | ---   | e300  | ---   | 342  | 579   | ---   |
| TOTAL | 10985 | 15011 | 51399 | 45588 | 28340 | 35439 | 58801 | 16261 | 22062 | 9222 | 16047 | 11116 |
| MEAN  | 354   | 500   | 1658  | 1471  | 977   | 1143  | 1960  | 525   | 735   | 297  | 518   | 371   |
| MAX   | 1440  | 2310  | 19800 | 12300 | 5330  | 8210  | 9490  | 3000  | 3500  | 655  | 1500  | 1350  |
| MIN   | 245   | 282   | 230   | 311   | 352   | 251   | 517   | 300   | 270   | 218  | 219   | 216   |
| CFSM  | .45   | .64   | 2.11  | 1.87  | 1.24  | 1.45  | 2.49  | .67   | .93   | .38  | .66   | .47   |
| IN.   | .52   | .71   | 2.43  | 2.15  | 1.34  | 1.68  | 2.78  | .77   | 1.04  | .44  | .76   | .53   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1996, BY WATER YEAR (WY)

|      | MEAN | 579  | 731  | 1384 | 1780 | 1978 | 1947 | 1972 | 1315 | 732  | 628  | 493  | 461 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| MAX  | 3855 | 3010 | 5344 | 6205 | 5210 | 6206 | 8806 | 7650 | 3184 | 3753 | 1716 | 1273 |     |
| (WY) | 1965 | 1958 | 1962 | 1990 | 1979 | 1961 | 1974 | 1953 | 1975 | 1989 | 1992 | 1957 |     |
| MIN  | 141  | 202  | 335  | 255  | 363  | 491  | 313  | 247  | 232  | 223  | 166  | 158  |     |
| (WY) | 1953 | 1964 | 1954 | 1957 | 1954 | 1954 | 1963 | 1963 | 1988 | 1954 | 1954 | 1956 |     |

## SUMMARY STATISTICS

## FOR 1995 CALENDAR YEAR

## FOR 1996 WATER YEAR

## WATER YEARS 1952 - 1996

|                          |        |        |        |
|--------------------------|--------|--------|--------|
| ANNUAL TOTAL             | 413384 | 320271 |        |
| ANNUAL MEAN              | 1133   | 875    | 1163   |
| HIGHEST ANNUAL MEAN      |        |        | 2342   |
| LOWEST ANNUAL MEAN       |        |        | 348    |
| HIGHEST DAILY MEAN       | 28700  | 19800  | 118000 |
| LOWEST DAILY MEAN        | 190    | 216    | 129    |
| ANNUAL SEVEN-DAY MINIMUM | 194    | 236    | 132    |
| INSTANTANEOUS PEAK FLOW  |        | 34200  | 150000 |
| INSTANTANEOUS PEAK STAGE |        | 16.49  | 36.03  |
| ANNUAL RUNOFF (CFSM)     | 1.44   | 1.11   | 1.48   |
| ANNUAL RUNOFF (INCHES)   | 19.54  | 15.14  | 20.07  |
| 10 PERCENT EXCEEDS       | 1970   | 1500   | 2100   |
| 50 PERCENT EXCEEDS       | 501    | 420    | 480    |
| 90 PERCENT EXCEEDS       | 245    | 257    | 229    |

e Estimated





## 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 and data-collection platform. 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.--Estimated daily discharges. Records good. Several measurements of water temperature were made during the year.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base of 8,000 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) |
|---------|------|--------------------------------|------------------|---------|------|--------------------------------|------------------|
| Jan. 29 | 0230 | 91300                          | 12.25            | Apr. 12 | 0430 | *23300                         | *16.95           |
| Mar. 8  | 2200 | 89790                          | 12.61            | Apr. 24 | 1730 | 11900                          | 13.66            |
| Mar. 15 | 2000 | 10500                          | 12.99            |         |      |                                |                  |

## DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

## MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1     | 327   | 341   | 375   | 516   | 964   | 1090  | 1620  | 1160  | 2440  | 809   | 402   | 329   |
| 2     | 333   | 333   | 352   | 520   | 817   | 931   | 937   | 1110  | 1940  | 746   | 395   | 331   |
| 3     | 334   | 329   | 391   | 484   | 743   | 712   | 726   | 1060  | 1630  | 639   | 389   | 319   |
| 4     | 330   | 326   | 2030  | 464   | 682   | 631   | 644   | 1040  | 1190  | 594   | 393   | 312   |
| 5     | 323   | 336   | 1770  | 452   | 633   | 743   | e601  | 1040  | 1010  | 570   | 564   | 310   |
| 6     | 321   | 416   | 1070  | 473   | 600   | 959   | e567  | 1020  | 913   | 709   | 822   | 308   |
| 7     | 319   | 401   | 735   | 1010  | 579   | 2600  | 544   | 1420  | 853   | 799   | 519   | 304   |
| 8     | 334   | 358   | 618   | 794   | 564   | 9520  | 499   | 1290  | 816   | 606   | 427   | 304   |
| 9     | 498   | 341   | e554  | 623   | 548   | 6970  | 465   | 2650  | 790   | 557   | 398   | 301   |
| 10    | 475   | 347   | e622  | 558   | 543   | 2270  | 455   | 2010  | 776   | 532   | 382   | 300   |
| 11    | 400   | 630   | e1150 | 527   | 628   | 1120  | 12100 | 1460  | 867   | 513   | 375   | 296   |
| 12    | e504  | 778   | e1050 | 510   | 930   | 888   | 21300 | 1230  | 802   | 501   | 379   | 294   |
| 13    | e580  | 494   | e776  | 502   | 744   | 769   | 9170  | 2640  | 786   | 496   | 536   | 294   |
| 14    | e488  | 408   | 638   | 509   | 641   | 6120  | 2420  | 2480  | 728   | 489   | 459   | 295   |
| 15    | 410   | 372   | 570   | 516   | 594   | 10300 | 1240  | 1460  | 706   | 531   | 494   | 322   |
| 16    | 383   | 355   | 574   | 496   | 575   | 8980  | 948   | 1190  | 689   | 551   | 413   | 321   |
| 17    | 371   | 344   | 1260  | 478   | 556   | 6980  | 791   | 1080  | 678   | 488   | 371   | 308   |
| 18    | 365   | 339   | 1200  | 532   | 543   | 4520  | 709   | 1050  | 665   | 471   | 358   | 569   |
| 19    | 367   | 337   | 872   | 3250  | 542   | 2240  | 665   | 1500  | 654   | 456   | 356   | 460   |
| 20    | 410   | 331   | 697   | 2140  | 644   | 1250  | 642   | 1120  | 643   | 484   | 363   | 342   |
| 21    | 3000  | 327   | 614   | 1260  | 668   | 924   | 1910  | 984   | 634   | 568   | 441   | 326   |
| 22    | 1670  | 321   | 566   | 762   | 622   | 787   | 2150  | 936   | 624   | 479   | 619   | 418   |
| 23    | 1250  | 315   | 534   | 940   | 562   | 707   | 6070  | 907   | 615   | 440   | 550   | 493   |
| 24    | 722   | 309   | 504   | 1260  | 533   | 644   | 10400 | 884   | 606   | 421   | 429   | 387   |
| 25    | 545   | 309   | 484   | 984   | 517   | 593   | 7640  | 870   | 607   | 408   | 386   | 340   |
| 26    | 445   | 321   | 469   | 714   | 503   | 549   | 3000  | 860   | 605   | 409   | 371   | 325   |
| 27    | 400   | 329   | 459   | 3400  | 498   | 521   | 1780  | 850   | 586   | 393   | 362   | 318   |
| 28    | 378   | 441   | 453   | 8880  | 744   | 1090  | 1480  | 840   | 579   | 391   | 350   | 308   |
| 29    | 364   | 550   | 496   | 8040  | ---   | 1540  | 1330  | 1070  | 591   | 583   | 342   | 303   |
| 30    | 355   | 440   | 548   | 3700  | ---   | 4870  | 1230  | 2000  | 777   | 513   | 337   | 301   |
| 31    | 350   | ---   | 511   | 1310  | ---   | 3850  | ---   | 2910  | ---   | 415   | 333   | ---   |
| TOTAL | 17351 | 11578 | 22942 | 46604 | 17717 | 85668 | 94033 | 42121 | 25800 | 16561 | 13315 | 10138 |
| MEAN  | 560   | 386   | 740   | 1503  | 633   | 2763  | 3134  | 1359  | 860   | 534   | 430   | 338   |
| MAX   | 3000  | 778   | 2030  | 8880  | 964   | 10300 | 21300 | 2910  | 2440  | 809   | 822   | 569   |
| MIN   | 319   | 309   | 352   | 452   | 498   | 521   | 455   | 840   | 579   | 391   | 333   | 294   |
| CFSM  | .97   | .67   | 1.28  | 2.59  | 1.09  | 4.76  | 5.40  | 2.34  | 1.48  | .92   | .74   |       |
| .58   |       |       |       |       |       |       |       |       |       |       |       |       |
| IN.   | 1.11  | .74   | 1.47  | 2.99  | 1.14  | 5.49  | 6.03  | 2.70  | 1.65  | 1.06  | .85   |       |
| .65   |       |       |       |       |       |       |       |       |       |       |       |       |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1995, BY WATER YEAR (WY)

|      | 455  | 583  | 1075 | 1509 | 1795 | 1626 | 1541 | 1010 | 643  | 524  | 447  | 483  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 455  | 583  | 1075 | 1509 | 1795 | 1626 | 1541 | 1010 | 643  | 524  | 447  | 483  |
| MAX  | 2964 | 2528 | 4106 | 6976 | 4793 | 5194 | 6032 | 4275 | 2915 | 2006 | 1491 | 2081 |
| (WY) | 1965 | 1958 | 1972 | 1990 | 1966 | 1980 | 1983 | 1953 | 1975 | 1989 | 1975 | 1975 |
| MIN  | 197  | 225  | 263  | 339  | 363  | 413  | 346  | 257  | 264  | 261  | 218  | 220  |
| (WY) | 1964 | 1970 | 1967 | 1957 | 1970 | 1955 | 1963 | 1965 | 1969 | 1960 | 1954 | 1963 |

## SUMMARY STATISTICS

## FOR 1994 CALENDAR YEAR

## FOR 1995 WATER YEAR

## WATER YEARS 1951 - 1995

|                          |        |        |            |
|--------------------------|--------|--------|------------|
| ANNUAL TOTAL             | 460902 | 403828 |            |
| ANNUAL MEAN              | 1263   | 1106   |            |
| HIGHEST ANNUAL MEAN      |        |        | 973        |
| LOWEST ANNUAL MEAN       |        |        | 1924       |
| HIGHEST DAILY MEAN       | 36600  | Jan 28 | 1983       |
| LOWEST DAILY MEAN        | 309    | Nov 24 | 1970       |
| ANNUAL SEVEN-DAY MINIMUM | 319    | Nov 21 | 1990       |
| INSTANTANEOUS PEAK FLOW  |        | 21300  | Apr 12, 13 |
| INSTANTANEOUS PEAK STAGE |        | 294    | Sep 12, 13 |
| INSTANTANEOUS LOW FLOW   |        | 298    | Sep 8      |
| INSTANTANEOUS LOW STAGE  |        | 23300  | Apr 12     |
| ANNUAL RUNOFF (CFSM)     | 2.18   | 16.95  | 104000     |
| ANNUAL RUNOFF (INCHES)   | 29.56  | 2.72   | 22.05      |
| 10 PERCENT EXCEEDS       | 2230   | 1.91   | 188        |
| 50 PERCENT EXCEEDS       | 655    | 2.90   | 0.39       |
| 90 PERCENT EXCEEDS       | 346    | 331    | 1.68       |
|                          |        |        | 22.80      |
|                          |        |        | 1700       |
|                          |        |        | 432        |
|                          |        |        | 258        |

e Estimated.

## MISSISSIPPI RIVER DELTA

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 and data-collection platform. 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.--Estimated daily discharges. Records good. Several measurements of water temperature were made during the year.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base 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) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Dec. 19 | 2030 | *16,200                           | *15.21              | Jan. 28 | 0900 | 11,800                            | 13.63               |

## DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1     | 300   | 424   | 328   | 682   | 1960  | 699   | 598   | 504   | 432   | 396   | 392   | 385   |
| 2     | 300   | 870   | 328   | 733   | 1900  | e592  | 582   | 470   | 433   | 394   | 623   | 314   |
| 3     | 343   | 1300  | 329   | 710   | 3760  | e509  | 524   | 458   | 492   | 391   | 509   | 300   |
| 4     | 431   | 790   | 347   | 676   | 2810  | e491  | 495   | 441   | 463   | 391   | 1280  | 288   |
| 5     | 388   | 529   | 438   | 655   | 1490  | e491  | 480   | 432   | 410   | 390   | 559   | 286   |
| 6     | 337   | 459   | 467   | 641   | 1130  | 702   | 577   | 426   | 399   | 390   | 396   | 287   |
| 7     | 313   | 483   | 478   | 634   | 1030  | 1840  | 883   | 421   | 397   | 389   | 556   | 296   |
| 8     | 304   | 820   | 667   | 619   | 921   | 1930  | 839   | 417   | 398   | 390   | 425   | 290   |
| 9     | 301   | 728   | 547   | 605   | 788   | 1320  | 598   | 415   | 463   | 392   | 349   | 296   |
| 10    | 300   | 479   | 856   | 602   | 675   | 764   | 531   | 412   | 401   | 532   | 333   | 361   |
| 11    | 300   | 412   | 669   | 601   | 627   | 625   | 494   | 413   | 397   | 462   | 387   | 435   |
| 12    | 299   | 387   | 505   | 604   | e584  | 610   | 475   | 425   | 394   | e408  | 394   | 333   |
| 13    | 334   | 378   | 445   | 602   | e549  | e549  | 963   | 422   | 396   | e334  | 430   | 293   |
| 14    | 677   | 367   | 417   | 592   | e522  | e504  | 1460  | 412   | 414   | e296  | 429   | 276   |
| 15    | 795   | 359   | 396   | 586   | e487  | e478  | 1560  | 411   | 601   | e288  | 337   | 272   |
| 16    | 501   | 347   | 398   | e575  | e478  | e461  | 1720  | 409   | 558   | 317   | 309   | 275   |
| 17    | 378   | 342   | 1560  | e562  | e461  | e456  | 1140  | 406   | 517   | 328   | 297   | 275   |
| 18    | 341   | 340   | 7090  | e580  | e443  | 910   | 688   | 405   | 458   | 322   | 288   | 287   |
| 19    | 325   | 337   | 15400 | 605   | e438  | 1020  | 590   | 404   | 672   | 310   | 287   | 274   |
| 20    | 314   | 350   | 12000 | 596   | e452  | 634   | 549   | 403   | 442   | 305   | 291   | 269   |
| 21    | 302   | 355   | 3700  | 588   | e522  | 540   | 514   | 403   | 411   | 299   | 291   | 417   |
| 22    | 298   | 346   | 1520  | 586   | e491  | 506   | 488   | 403   | 401   | 295   | 277   | 639   |
| 23    | 301   | 335   | 1160  | 584   | e447  | 487   | 875   | 401   | 456   | 291   | 271   | 370   |
| 24    | 303   | 331   | 967   | 745   | e425  | 478   | 1740  | 400   | 779   | 302   | 268   | 301   |
| 25    | 297   | 339   | 863   | 928   | e408  | 525   | 1350  | 399   | 548   | 307   | 276   | 285   |
| 26    | 294   | 334   | 801   | 1180  | e408  | 643   | 743   | 398   | 559   | 304   | 526   | 278   |
| 27    | 303   | 334   | 755   | 8820  | e397  | 819   | 938   | 397   | 445   | 299   | 446   | 292   |
| 28    | 345   | 327   | 718   | 10700 | e592  | 597   | 600   | 397   | 409   | 329   | 314   | 594   |
| 29    | 359   | 331   | 691   | 4970  | 694   | 540   | 531   | 405   | 400   | 684   | 302   | 679   |
| 30    | 339   | 331   | 674   | 1730  | ---   | 560   | 524   | 597   | 397   | 412   | 309   | 449   |
| 31    | 342   | ---   | 666   | 2470  | ---   | 632   | ---   | 561   | ---   | 331   | 349   | ---   |
| TOTAL | 11064 | 13864 | 56180 | 45761 | 25889 | 21912 | 24049 | 13267 | 13942 | 11278 | 12500 | 10396 |
| MEAN  | 357   | 462   | 1812  | 1476  | 893   | 707   | 802   | 428   | 465   | 364   | 403   | 347   |
| MAX   | 795   | 1300  | 15400 | 10700 | 3760  | 1930  | 1740  | 597   | 779   | 684   | 1280  | 679   |
| MIN   | 294   | 327   | 328   | 562   | 397   | 456   | 475   | 397   | 394   | 288   | 268   | 269   |
| CFSM  | .62   | .80   | 3.12  | 2.55  | 1.54  | 1.22  | 1.38  | .74   | .80   | .63   | .70   | .60   |
| IN.   | .71   | .89   | 3.60  | 2.94  | 1.66  | 1.41  | 1.54  | .85   | .89   | .72   | .80   | .67   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1996, BY WATER YEAR (WY)

|      | MEAN | 453  | 580  | 1091 | 1508 | 1775 | 1606 | 1525 | 997  | 639  | 520  | 446  | 480 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| MAX  | 2964 | 2528 | 4106 | 6976 | 4793 | 5194 | 6032 | 4275 | 2915 | 2006 | 1491 | 2081 |     |
| (WY) | 1965 | 1958 | 1972 | 1990 | 1966 | 1980 | 1983 | 1953 | 1975 | 1989 | 1975 | 1975 |     |
| MIN  | 197  | 225  | 263  | 339  | 363  | 413  | 346  | 257  | 264  | 261  | 218  | 220  |     |
| (WY) | 1964 | 1970 | 1967 | 1957 | 1970 | 1955 | 1963 | 1965 | 1969 | 1960 | 1954 | 1963 |     |

## SUMMARY STATISTICS

FOR 1995 CALENDAR YEARFOR 1996 WATER YEARWATER YEARS 1951 - 1996

|                          |        |        |       |        |        |         |      |  |      |  |  |      |
|--------------------------|--------|--------|-------|--------|--------|---------|------|--|------|--|--|------|
| ANNUAL TOTAL             | 433065 | 260102 |       |        |        |         |      |  |      |  |  |      |
| ANNUAL MEAN              | 1186   | 711    |       |        |        |         |      |  |      |  |  |      |
| HIGHEST ANNUAL MEAN      |        |        |       |        |        |         |      |  | 968  |  |  |      |
| LOWEST ANNUAL MEAN       |        |        |       |        |        |         |      |  | 1924 |  |  | 1983 |
| HIGHEST DAILY MEAN       | 21300  | Apr 12 | 15400 | Dec 19 | 66400  | Jan 25  | 1990 |  |      |  |  |      |
| LOWEST DAILY MEAN        | 294    | Sep 12 | 268   | Aug 24 | 188    | Oct 18  | 1956 |  |      |  |  |      |
| ANNUAL SEVEN-DAY MINIMUM | 298    | Sep 8  | 275   | Sep 14 | 190    | Oct 26  | 1963 |  |      |  |  |      |
| INSTANTANEOUS PEAK FLOW  |        |        | 16200 | Dec 19 | 104000 | Jan 25  | 1990 |  |      |  |  |      |
| INSTANTANEOUS PEAK STAGE |        |        | 15.21 | Dec 19 | 22.05  | Jan 25  | 1990 |  |      |  |  |      |
| INSTANTANEOUS LOW FLOW   |        |        | 264   | Sep 20 | 188    | Oct 18  | 1956 |  |      |  |  |      |
| INSTANTANEOUS LOW STAGE  |        |        | 2.26  | Sep 20 | 0.39   | Sep 6-9 | 1990 |  |      |  |  |      |
| ANNUAL RUNOFF (CFSM)     | 2.05   |        | 1.23  |        |        |         |      |  |      |  |  |      |
| ANNUAL RUNOFF (INCHES)   | 27.78  |        | 16.68 |        |        |         |      |  |      |  |  |      |
| 10 PERCENT EXCEEDS       | 2060   |        | 923   |        | 1680   |         |      |  |      |  |  |      |
| 50 PERCENT EXCEEDS       | 575    |        | 442   |        | 433    |         |      |  |      |  |  |      |
| 90 PERCENT EXCEEDS       | 325    |        | 300   |        | 258    |         |      |  |      |  |  |      |

e Estimated

## Flood hydrograph partial-record stations

## MOBILE RIVER BASIN

02432920 BULL MOUNTAIN CREEK NEAR TILDEN, MS

LOCATION.--Lat 34°10'48", long 88°18'41", in SW1/4 sec.25, T.10 S., R.9 E., Chickasaw Meridian, Itawamba County, Hydrologic Unit 03160101, on downstream side of main channel bridge at left abutment, 2 mi east of Tilden, 3 mi downstream from Gum Creek, 14 mi upstream from mouth.

DRAINAGE AREA.--274 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1992 to current year (High water records only).

GAGE.--Water-stage recorder. Elevation of gage is 277 ft above sea level, from topographic map.

REMARKS.--Records good. Telemeter and satellite telemeter at station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,310 ft<sup>3</sup>/s Apr. 24, gage height, 18.59 ft.

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1996 WATER YEAR

| Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge |
|-------|------|-------------|-----------|-------|------|-------------|-----------|-------|------|-------------|-----------|
| 12-18 | 1300 | 15.93       | 813       | 03-05 | 2300 | 15.80       | 749       | 04-21 | 0800 | 15.59       | 655       |
| 12-18 | 1600 | 16.25       | 984       | 03-06 | 0200 | 16.95       | 1,480     | 04-21 | 1200 | 16.54       | 1,170     |
| 12-18 | 1900 | 16.95       | 1,480     | 03-06 | 0500 | 17.24       | 1,790     | 04-21 | 1600 | 17.16       | 1,690     |
| 12-18 | 2200 | 17.20       | 1,750     | 03-06 | 0800 | 17.40       | 2,000     | 04-21 | 2000 | 17.44       | 2,050     |
| 12-19 | 0100 | 17.33       | 1,910     | 03-06 | 1100 | 17.48       | 2,110     | 04-21 | 2400 | 17.74       | 2,520     |
| 12-19 | 0400 | 17.47       | 2,090     | 03-06 | 1300 | 17.47       | 2,100     | 04-22 | 0300 | 17.85       | 2,710     |
| 12-19 | 0800 | 17.65       | 2,370     | 03-06 | 1500 | 17.44       | 2,060     | 04-22 | 0600 | 17.85       | 2,710     |
| 12-19 | 1200 | 17.70       | 2,460     | 03-06 | 1700 | 17.40       | 2,000     | 04-22 | 0900 | 17.83       | 2,680     |
| 12-19 | 1600 | 17.71       | 2,470     | 03-06 | 1900 | 17.37       | 1,960     | 04-22 | 1200 | 17.88       | 2,770     |
| 12-19 | 2000 | 17.71       | 2,470     | 03-06 | 2200 | 17.48       | 2,110     | 04-22 | 1500 | 17.99       | 2,980     |
| 12-19 | 2400 | 17.75       | 2,530     | 03-07 | 0100 | 17.58       | 2,260     | 04-22 | 1800 | 18.11       | 3,210     |
| 12-20 | 0400 | 17.83       | 2,670     | 03-07 | 0400 | 17.72       | 2,490     | 04-22 | 2100 | 18.18       | 3,360     |
| 12-20 | 0700 | 17.90       | 2,790     | 03-07 | 0700 | 17.93       | 2,860     | 04-22 | 2400 | 18.34       | 3,720     |
| 12-20 | 1000 | 17.97       | 2,930     | 03-07 | 1000 | 18.21       | 3,420     | 04-23 | 0300 | 18.47       | 4,010     |
| 12-20 | 1200 | 18.01       | 3,010     | 03-07 | 1300 | 18.33       | 3,690     | 04-23 | 0600 | 18.49       | 4,070     |
| 12-20 | 1400 | 18.04       | 3,060     | 03-07 | 1500 | 18.39       | 3,830     | 04-23 | 0800 | 18.49       | 4,070     |
| 12-20 | 1600 | 18.06       | 3,100     | 03-07 | 1700 | 18.46       | 3,990     | 04-23 | 1000 | 18.51       | 4,120     |
| 12-20 | 1700 | 18.07       | 3,130     | 03-07 | 1900 | 18.50       | 4,090     | 04-23 | 1200 | 18.49       | 4,070     |
| 12-20 | 1800 | 18.07       | 3,130     | 03-07 | 2000 | 18.51       | 4,110     | 04-23 | 1400 | 18.43       | 3,930     |
| 12-20 | 1900 | 18.05       | 3,090     | 03-07 | 2100 | 18.50       | 4,090     | 04-23 | 1600 | 18.34       | 3,720     |
| 12-20 | 2000 | 18.05       | 3,090     | 03-07 | 2200 | 18.50       | 4,090     | 04-23 | 1800 | 18.26       | 3,540     |
| 12-20 | 2100 | 18.03       | 3,050     | 03-07 | 2300 | 18.49       | 4,060     | 04-23 | 2100 | 18.19       | 3,380     |
| 12-20 | 2300 | 18.01       | 3,010     | 03-07 | 2400 | 18.47       | 4,030     | 04-23 | 2400 | 18.24       | 3,480     |
| 12-21 | 0100 | 17.95       | 2,910     | 03-08 | 0200 | 18.44       | 3,940     | 04-24 | 0200 | 18.34       | 3,720     |
| 12-21 | 0400 | 17.87       | 2,750     | 03-08 | 0400 | 18.40       | 3,860     | 04-24 | 0400 | 18.47       | 4,020     |
| 12-21 | 0700 | 17.73       | 2,500     | 03-08 | 0700 | 18.38       | 3,800     | 04-24 | 0500 | 18.52       | 4,150     |
| 12-21 | 1000 | 17.57       | 2,250     | 03-08 | 1000 | 18.39       | 3,830     | 04-24 | 0600 | 18.56       | 4,240     |
| 12-21 | 1400 | 17.29       | 1,860     | 03-08 | 1200 | 18.40       | 3,860     | 04-24 | 0700 | 18.58       | 4,290     |
| 12-21 | 1800 | 16.97       | 1,490     | 03-08 | 1400 | 18.38       | 3,800     | 04-24 | 0745 | 18.59       | 4,310     |
| 12-21 | 2200 | 16.61       | 1,210     | 03-08 | 1700 | 18.31       | 3,650     | 04-24 | 0830 | 18.58       | 4,290     |
| 12-22 | 0200 | 16.33       | 1,030     | 03-08 | 2000 | 18.22       | 3,450     | 04-24 | 0930 | 18.57       | 4,270     |
| 12-22 | 0600 | 16.13       | 915       | 03-08 | 2400 | 18.08       | 3,140     | 04-24 | 1030 | 18.55       | 4,210     |
|       |      |             |           | 03-09 | 0400 | 17.94       | 2,870     | 04-24 | 1130 | 18.52       | 4,150     |
|       |      |             |           | 03-09 | 0800 | 17.80       | 2,630     | 04-24 | 1300 | 18.49       | 4,050     |
|       |      |             |           | 03-09 | 1200 | 17.66       | 2,390     | 04-24 | 1500 | 18.42       | 3,910     |
|       |      |             |           | 03-09 | 1600 | 17.52       | 2,170     | 04-24 | 1700 | 18.36       | 3,750     |
|       |      |             |           | 03-09 | 2000 | 17.38       | 1,970     | 04-24 | 2000 | 18.26       | 3,540     |
|       |      |             |           | 03-09 | 2400 | 17.22       | 1,770     | 04-24 | 2300 | 18.18       | 3,360     |
|       |      |             |           | 03-10 | 0400 | 17.04       | 1,560     | 04-25 | 0200 | 18.09       | 3,170     |
|       |      |             |           | 03-10 | 0800 | 16.86       | 1,410     | 04-25 | 0600 | 17.97       | 2,930     |
|       |      |             |           | 03-10 | 1200 | 16.70       | 1,280     | 04-25 | 1000 | 17.84       | 2,700     |
|       |      |             |           | 03-10 | 1600 | 16.55       | 1,170     | 04-25 | 1400 | 17.70       | 2,460     |
|       |      |             |           |       |      |             |           | 04-25 | 1800 | 17.52       | 2,170     |
|       |      |             |           |       |      |             |           | 04-25 | 2200 | 17.32       | 1,890     |
|       |      |             |           |       |      |             |           | 04-26 | 0200 | 17.09       | 1,620     |
|       |      |             |           |       |      |             |           | 04-26 | 0600 | 16.86       | 1,410     |
|       |      |             |           |       |      |             |           | 04-26 | 1000 | 16.66       | 1,250     |
|       |      |             |           |       |      |             |           | 04-26 | 1400 | 16.49       | 1,130     |
|       |      |             |           |       |      |             |           | 04-26 | 1800 | 16.35       | 1,050     |
|       |      |             |           |       |      |             |           | 04-26 | 2200 | 16.26       | 989       |

## Flood hydrograph partial-record stations

## MOBILE RIVER BASIN

02437000 TOMBIGBEE RIVER NEAR AMORY, MS

LOCATION.--Lat 34°00'54", long 88°33'03", in NW1/4 NE1/4 sec.3, T.13 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.--Peak discharges greater than base discharge of 20,000 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) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Dec. 19 | 0730 | 21,800                            | 22.16               | Apr. 22 | 0300 | 23,900                            | 22.87               |
| Mar. 25 | 1900 | 21,700                            | 22.11               | Apr. 23 | 2100 | *30,600                           | *25.00              |

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1996 WATER YEAR

| Date  | Time | Gage<br>Height | Discharge | Date  | Time | Gage<br>Height | Discharge | Date  | Time | Gage<br>Height | Discharge |
|-------|------|----------------|-----------|-------|------|----------------|-----------|-------|------|----------------|-----------|
| 12-16 | 0300 | 12.03          | 2,530     | 01-06 | 0400 | 13.80          | 4,560     | 04-20 | 2200 | 12.39          | 2,900     |
| 12-16 | 0400 | 13.53          | 4,210     | 01-06 | 0600 | 13.93          | 4,730     | 04-20 | 2400 | 13.63          | 4,400     |
| 12-16 | 0500 | 14.86          | 6,050     | 01-06 | 0800 | 14.63          | 5,710     | 04-21 | 0100 | 14.76          | 5,900     |
| 12-16 | 0600 | 15.64          | 7,280     | 01-06 | 1000 | 15.60          | 7,210     | 04-21 | 0300 | 16.33          | 8,450     |
| 12-16 | 0800 | 16.43          | 8,630     | 01-06 | 1200 | 16.55          | 8,850     | 04-21 | 0500 | 17.14          | 9,950     |
| 12-16 | 1030 | 16.66          | 9,050     | 01-06 | 1400 | 17.85          | 11,400    | 04-21 | 0800 | 17.77          | 11,200    |
| 12-16 | 1300 | 16.50          | 8,760     | 01-06 | 1600 | 19.00          | 13,800    | 04-21 | 1000 | 18.01          | 11,700    |
| 12-16 | 1700 | 15.55          | 7,130     | 01-06 | 2000 | 20.20          | 16,600    | 04-21 | 1300 | 18.88          | 13,600    |
| 12-16 | 2300 | 14.50          | 5,520     | 01-06 | 2330 | 20.56          | 17,500    | 04-21 | 1500 | 20.03          | 16,200    |
| 12-17 | 0400 | 13.54          | 4,220     | 01-07 | 0200 | 20.30          | 16,900    | 04-21 | 1700 | 20.89          | 18,400    |
| 12-17 | 0800 | 13.23          | 3,840     | 01-07 | 0600 | 19.29          | 14,500    | 04-21 | 1900 | 21.68          | 20,500    |
| 12-17 | 1200 | 13.25          | 3,870     | 01-07 | 1000 | 18.09          | 11,800    | 04-21 | 2100 | 22.26          | 22,100    |
| 12-17 | 1800 | 14.40          | 5,380     | 01-07 | 1400 | 17.00          | 9,680     | 04-21 | 2400 | 22.73          | 23,500    |
| 12-17 | 2400 | 15.19          | 6,550     | 01-07 | 2000 | 16.04          | 7,950     | 04-22 | 0300 | 22.87          | 23,900    |
| 12-18 | 0300 | 16.20          | 8,230     | 01-08 | 0200 | 15.34          | 6,790     | 04-22 | 0600 | 22.60          | 23,100    |
| 12-18 | 1000 | 17.06          | 9,790     | 01-08 | 0800 | 14.74          | 5,870     | 04-22 | 1000 | 21.88          | 21,000    |
| 12-18 | 1500 | 16.96          | 9,610     | 01-08 | 1800 | 14.63          | 5,710     | 04-22 | 1300 | 20.86          | 18,300    |
| 12-18 | 2000 | 18.86          | 13,500    | 01-08 | 2300 | 14.49          | 5,500     | 04-22 | 1800 | 18.89          | 13,600    |
| 12-18 | 2400 | 20.75          | 18,000    | 01-09 | 0800 | 14.50          | 5,520     | 04-22 | 2300 | 17.83          | 11,300    |
| 12-19 | 0200 | 21.40          | 19,700    | 01-09 | 1600 | 14.35          | 5,310     | 04-23 | 0200 | 19.63          | 15,300    |
| 12-19 | 0500 | 21.99          | 21,300    | 01-09 | 2400 | 14.16          | 5,040     | 04-23 | 0500 | 21.33          | 19,500    |
| 12-19 | 0730 | 22.16          | 21,800    | 01-10 | 0400 | 13.89          | 4,680     | 04-23 | 0800 | 22.73          | 23,500    |
| 12-19 | 1000 | 21.96          | 21,300    | 01-10 | 1100 | 13.40          | 4,050     | 04-23 | 1100 | 23.80          | 26,700    |
| 12-19 | 1300 | 21.50          | 20,000    |       |      |                |           | 04-23 | 1500 | 24.66          | 29,400    |
| 12-19 | 1600 | 20.65          | 17,800    | 03-25 | 0300 | 12.36          | 2,860     | 04-23 | 2100 | 25.00          | 30,600    |
| 12-19 | 1900 | 19.56          | 15,100    | 03-25 | 0500 | 12.65          | 3,170     | 04-24 | 0300 | 24.66          | 29,400    |
| 12-19 | 2200 | 18.50          | 12,700    | 03-25 | 0600 | 13.92          | 4,720     | 04-24 | 0800 | 23.80          | 26,700    |
| 12-20 | 0100 | 17.56          | 10,800    | 03-25 | 0700 | 16.44          | 8,650     | 04-24 | 1500 | 22.71          | 23,400    |
| 12-20 | 0500 | 16.93          | 9,550     | 03-25 | 0800 | 17.86          | 11,400    | 04-24 | 2400 | 21.82          | 20,900    |
| 12-20 | 1100 | 16.54          | 8,830     | 03-25 | 1000 | 19.38          | 14,700    | 04-25 | 0500 | 21.69          | 20,500    |
| 12-20 | 1600 | 15.99          | 7,860     | 03-25 | 1200 | 20.45          | 17,300    | 04-25 | 1000 | 21.69          | 20,500    |
| 12-20 | 2000 | 15.59          | 7,190     | 03-25 | 1400 | 21.25          | 19,300    | 04-25 | 1500 | 21.53          | 20,100    |
| 12-20 | 2400 | 15.46          | 6,980     | 03-25 | 1600 | 21.78          | 20,800    | 04-25 | 2000 | 21.10          | 18,900    |
| 12-21 | 0800 | 15.36          | 6,820     | 03-25 | 1900 | 22.11          | 21,700    | 04-25 | 2400 | 20.78          | 18,100    |
| 12-21 | 1500 | 15.24          | 6,630     | 03-25 | 2000 | 22.11          | 21,700    | 04-26 | 0900 | 19.76          | 15,600    |
| 12-21 | 2400 | 15.13          | 6,460     | 03-25 | 2200 | 21.84          | 20,900    | 04-26 | 1800 | 18.56          | 12,800    |
| 12-22 | 0800 | 15.06          | 6,350     | 03-26 | 0200 | 20.73          | 18,000    | 04-26 | 2400 | 17.54          | 10,700    |
| 12-22 | 1100 | 15.00          | 6,260     | 03-26 | 0400 | 19.90          | 15,900    | 04-27 | 0800 | 16.84          | 9,380     |
| 12-22 | 1800 | 14.85          | 6,030     | 03-26 | 0600 | 19.07          | 14,000    | 04-27 | 1500 | 15.76          | 7,470     |
| 12-22 | 2400 | 14.76          | 5,900     | 03-26 | 0800 | 18.33          | 12,400    | 04-27 | 2300 | 15.52          | 7,080     |
| 12-23 | 0600 | 14.55          | 5,590     | 03-26 | 1000 | 17.68          | 11,000    | 04-28 | 0900 | 14.92          | 6,140     |
| 12-23 | 0800 | 14.30          | 5,240     | 03-26 | 1200 | 17.17          | 10,000    | 04-28 | 1500 | 14.37          | 5,330     |
| 12-23 | 1000 | 14.00          | 4,820     | 03-26 | 1400 | 16.71          | 9,140     | 04-28 | 2400 | 13.97          | 4,780     |
| 12-23 | 1200 | 13.69          | 4,420     | 03-26 | 1600 | 16.33          | 8,450     | 04-29 | 0800 | 13.57          | 4,260     |
| 12-23 | 1400 | 13.44          | 4,100     | 03-26 | 1800 | 15.92          | 7,740     | 04-29 | 2000 | 13.17          | 3,770     |
| 12-23 | 1900 | 13.15          | 3,750     | 03-26 | 2000 | 15.54          | 7,110     |       |      |                |           |
|       |      |                |           | 03-26 | 2200 | 15.16          | 6,510     |       |      |                |           |
|       |      |                |           | 03-26 | 2400 | 14.91          | 6,120     |       |      |                |           |
|       |      |                |           | 03-27 | 0300 | 14.81          | 5,970     |       |      |                |           |



## Flood hydrograph partial-record stations

## MOBILE RIVER BASIN

## 02441000 TIBBEE CREEK NEAR TIBBEE, MS

LOCATION.--Lat 33°32'17", long 88°38'00", in SW1/4 sec.4, T.19 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.--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. 22 | 2000 | *17,800                           | *24.81              | No other peaks greater than base discharge. |      |                                   |                     |

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1996 WATER YEAR

| Date  | Time | Gage<br>Height | Discharge | Date  | Time | Gage<br>Height | Discharge | Date  | Time | Gage<br>Height | Discharge |
|-------|------|----------------|-----------|-------|------|----------------|-----------|-------|------|----------------|-----------|
| 12-16 | 0600 | 9.36           | 627       | 03-25 | 0200 | 9.45           | 681       | 04-20 | 2000 | 9.24           | 549       |
| 12-16 | 0800 | 9.76           | 848       | 03-25 | 0300 | 9.53           | 725       | 04-20 | 2200 | 9.33           | 607       |
| 12-16 | 1200 | 10.65          | 1,250     | 03-25 | 0400 | 9.72           | 827       | 04-20 | 2300 | 9.80           | 870       |
| 12-16 | 2400 | 11.38          | 1,540     | 03-25 | 0500 | 10.22          | 1,060     | 04-20 | 2400 | 10.67          | 1,260     |
| 12-17 | 1200 | 11.94          | 1,750     | 03-25 | 0600 | 10.96          | 1,390     | 04-21 | 0100 | 11.61          | 1,630     |
| 12-17 | 2400 | 12.69          | 2,060     | 03-25 | 0700 | 11.60          | 1,620     | 04-21 | 0300 | 13.24          | 2,300     |
| 12-18 | 0600 | 13.72          | 2,530     | 03-25 | 0800 | 12.29          | 1,890     | 04-21 | 0500 | 14.43          | 2,870     |
| 12-18 | 1000 | 14.77          | 3,050     | 03-25 | 0900 | 12.88          | 2,140     | 04-21 | 0700 | 15.42          | 3,390     |
| 12-18 | 1400 | 15.38          | 3,370     | 03-25 | 1000 | 13.31          | 2,330     | 04-21 | 1000 | 16.46          | 3,990     |
| 12-18 | 1800 | 16.43          | 3,980     | 03-25 | 1100 | 13.62          | 2,480     | 04-21 | 1300 | 17.23          | 4,470     |
| 12-18 | 2400 | 17.68          | 4,770     | 03-25 | 1200 | 13.82          | 2,580     | 04-21 | 1600 | 18.16          | 5,100     |
| 12-19 | 0600 | 18.04          | 5,010     | 03-25 | 1600 | 14.21          | 2,770     | 04-21 | 1900 | 19.21          | 5,850     |
| 12-19 | 1800 | 18.91          | 5,630     | 03-25 | 2000 | 14.65          | 2,990     | 04-21 | 2100 | 19.92          | 6,400     |
| 12-19 | 2400 | 19.51          | 6,080     | 03-25 | 2400 | 15.38          | 3,370     | 04-21 | 2400 | 21.20          | 7,440     |
| 12-20 | 0600 | 20.06          | 6,510     | 03-26 | 0400 | 16.10          | 3,780     | 04-22 | 0200 | 21.90          | 8,180     |
| 12-20 | 1200 | 20.53          | 6,890     | 03-26 | 0600 | 16.56          | 4,050     | 04-22 | 0600 | 22.99          | 10,600    |
| 12-20 | 1400 | 20.69          | 7,020     | 03-26 | 0800 | 16.95          | 4,300     | 04-22 | 1000 | 23.84          | 13,600    |
| 12-20 | 1600 | 20.80          | 7,110     | 03-26 | 1000 | 17.32          | 4,530     | 04-22 | 1400 | 24.58          | 16,700    |
| 12-20 | 1800 | 20.93          | 7,220     | 03-26 | 1200 | 17.71          | 4,790     | 04-22 | 1500 | 24.61          | 16,900    |
| 12-20 | 2000 | 21.04          | 7,310     | 03-26 | 1400 | 18.03          | 5,010     | 04-22 | 1600 | 24.78          | 17,600    |
| 12-20 | 2200 | 21.12          | 7,380     | 03-26 | 1600 | 18.32          | 5,210     | 04-22 | 1900 | 24.80          | 17,700    |
| 12-20 | 2400 | 21.19          | 7,440     | 03-26 | 1800 | 18.56          | 5,380     | 04-22 | 2000 | 24.81          | 17,800    |
| 12-21 | 0200 | 21.23          | 7,470     | 03-26 | 2000 | 18.75          | 5,520     | 04-22 | 2200 | 24.77          | 17,600    |
| 12-21 | 0400 | 21.28          | 7,510     | 03-26 | 2400 | 19.07          | 5,750     | 04-23 | 0200 | 24.73          | 17,400    |
| 12-21 | 0600 | 21.29          | 7,520     | 03-27 | 0400 | 19.28          | 5,910     | 04-23 | 0600 | 24.65          | 17,000    |
| 12-21 | 0800 | 21.30          | 7,530     | 03-27 | 0800 | 19.45          | 6,040     | 04-23 | 1000 | 24.49          | 16,300    |
| 12-21 | 0915 | 21.38          | 7,600     | 03-27 | 1200 | 19.56          | 6,120     | 04-23 | 1200 | 24.40          | 15,900    |
| 12-21 | 1000 | 21.32          | 7,550     | 03-27 | 1800 | 19.62          | 6,170     | 04-23 | 1600 | 24.22          | 15,200    |
| 12-21 | 1200 | 21.34          | 7,560     | 03-27 | 2400 | 19.69          | 6,220     | 04-23 | 2000 | 24.10          | 14,700    |
| 12-21 | 1400 | 21.28          | 7,510     | 03-28 | 0100 | 19.78          | 6,290     | 04-23 | 2400 | 24.03          | 14,400    |
| 12-21 | 1600 | 21.25          | 7,490     | 03-28 | 0245 | 19.78          | 6,290     | 04-24 | 1200 | 23.85          | 13,700    |
| 12-21 | 1800 | 21.22          | 7,460     | 03-28 | 0400 | 19.67          | 6,210     | 04-24 | 2400 | 23.53          | 12,400    |
| 12-21 | 2000 | 21.12          | 7,380     | 03-28 | 0600 | 19.65          | 6,190     | 04-25 | 1200 | 22.99          | 10,600    |
| 12-21 | 2400 | 20.93          | 7,220     | 03-28 | 0800 | 19.59          | 6,140     | 04-25 | 2400 | 22.49          | 9,360     |
| 12-22 | 0600 | 20.42          | 6,800     | 03-28 | 1000 | 19.52          | 6,090     | 04-26 | 0600 | 22.15          | 8,610     |
| 12-22 | 1200 | 19.68          | 6,210     | 03-28 | 1200 | 19.36          | 5,970     | 04-26 | 1200 | 21.68          | 7,910     |
| 12-22 | 1800 | 18.69          | 5,420     | 03-28 | 1800 | 18.87          | 5,600     | 04-26 | 1800 | 20.95          | 7,240     |
| 12-22 | 2400 | 17.47          | 4,630     | 03-28 | 2400 | 18.07          | 5,030     | 04-26 | 2400 | 20.04          | 6,500     |
| 12-23 | 0600 | 15.91          | 3,670     | 03-29 | 0600 | 17.05          | 4,360     | 04-27 | 0300 | 19.51          | 6,080     |
| 12-23 | 1200 | 14.51          | 2,910     | 03-29 | 1200 | 15.76          | 3,580     | 04-27 | 0600 | 18.95          | 5,660     |
| 12-23 | 1800 | 12.98          | 2,190     | 03-29 | 1800 | 14.25          | 2,790     | 04-27 | 0900 | 18.35          | 5,230     |
| 12-23 | 2000 | 10.67          | 1,260     | 03-29 | 2400 | 12.71          | 2,070     | 04-27 | 1200 | 17.72          | 4,800     |
| 12-23 | 2200 | 10.20          | 1,050     | 03-30 | 0600 | 11.41          | 1,550     | 04-27 | 1500 | 17.03          | 4,350     |
| 12-23 | 2400 | 9.93           | 928       | 03-30 | 1200 | 10.77          | 1,310     | 04-27 | 1800 | 16.23          | 3,860     |
| 12-24 | 0200 | 9.77           | 854       | 03-30 | 1800 | 10.43          | 1,150     | 04-27 | 2100 | 15.48          | 3,430     |
| 12-24 | 1200 | 9.59           | 759       | 03-30 | 2400 | 10.29          | 1,090     | 04-27 | 2400 | 14.45          | 2,880     |
| 12-24 | 2000 | 9.38           | 641       | 03-31 | 0600 | 10.27          | 1,080     | 04-28 | 0300 | 13.29          | 2,320     |
|       |      |                |           | 03-31 | 1200 | 10.23          | 1,060     | 04-28 | 0600 | 12.03          | 1,790     |
|       |      |                |           | 03-31 | 1800 | 10.17          | 1,040     | 04-28 | 1200 | 10.29          | 1,090     |
|       |      |                |           |       |      |                |           | 04-28 | 1800 | 9.82           | 879       |
|       |      |                |           |       |      |                |           | 04-28 | 2400 | 9.63           | 780       |



## Flood hydrograph partial-record stations

## PEARL RIVER BASIN

02485800 EUBANKS CREEK AT JACKSON, MS

LOCATION.--Lat 32°21'00", long 90°09'50", 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, 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, 1,680 ft<sup>3</sup>/s, Oct. 3, gage height 10.22 ft.

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1996 WATER YEAR

| Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge |
|-------|------|-------------|-----------|-------|------|-------------|-----------|-------|------|-------------|-----------|
| 10-03 | 0015 | 4.10        | 22        | 01-26 | 0745 | 4.35        | 44        | 04-14 | 1430 | 4.60        | 74        |
| 10-03 | 0030 | 4.35        | 44        | 01-26 | 0800 | 5.37        | 208       | 04-14 | 1445 | 7.89        | 894       |
| 10-03 | 0045 | 4.49        | 60        | 01-26 | 0815 | 6.99        | 615       | 04-14 | 1500 | 8.27        | 1,010     |
| 10-03 | 0100 | 4.98        | 132       | 01-26 | 0830 | 5.41        | 216       | 04-14 | 1515 | 7.99        | 927       |
| 10-03 | 0115 | 6.07        | 367       | 01-26 | 0845 | 7.33        | 717       | 04-14 | 1530 | 7.54        | 782       |
| 10-03 | 0130 | 6.59        | 502       | 01-26 | 0900 | 8.33        | 1,030     | 04-14 | 1545 | 6.89        | 586       |
| 10-03 | 0145 | 6.87        | 581       | 01-26 | 0915 | 8.66        | 1,140     | 04-14 | 1600 | 6.22        | 405       |
| 10-03 | 0200 | 7.86        | 884       | 01-26 | 0930 | 8.41        | 1,060     | 04-14 | 1615 | 5.73        | 286       |
| 10-03 | 0215 | 9.80        | 1,530     | 01-26 | 0945 | 7.89        | 894       | 04-14 | 1630 | 5.49        | 233       |
| 10-03 | 0230 | 10.22       | 1,680     | 01-26 | 1000 | 7.21        | 680       | 04-14 | 1645 | 5.39        | 212       |
| 10-03 | 0245 | 9.85        | 1,550     | 01-26 | 1015 | 6.53        | 486       | 04-14 | 1700 | 5.33        | 200       |
| 10-03 | 0300 | 9.03        | 1,260     | 01-26 | 1030 | 6.83        | 569       | 04-14 | 1715 | 5.22        | 178       |
| 10-03 | 0315 | 7.89        | 894       | 01-26 | 1045 | 8.13        | 971       | 04-14 | 1730 | 5.09        | 153       |
| 10-03 | 0330 | 6.75        | 547       | 01-26 | 1100 | 8.94        | 1,230     | 04-14 | 1745 | 5.13        | 160       |
| 10-03 | 0345 | 5.92        | 331       | 01-26 | 1115 | 8.67        | 1,140     | 04-14 | 1800 | 5.63        | 264       |
| 10-03 | 0400 | 5.74        | 288       | 01-26 | 1130 | 8.41        | 1,060     | 04-14 | 1815 | 5.72        | 284       |
| 10-03 | 0415 | 5.74        | 288       | 01-26 | 1145 | 8.58        | 1,110     | 04-14 | 1830 | 5.56        | 248       |
| 10-03 | 0430 | 5.64        | 266       | 01-26 | 1200 | 9.73        | 1,510     | 04-14 | 1845 | 5.37        | 208       |
| 10-03 | 0445 | 5.78        | 298       | 01-26 | 1215 | 10.19       | 1,670     | 04-14 | 1900 | 5.14        | 162       |
| 10-03 | 0500 | 5.72        | 284       | 01-26 | 1230 | 9.95        | 1,580     | 04-14 | 1915 | 4.92        | 122       |
| 10-03 | 0515 | 5.47        | 229       | 01-26 | 1245 | 9.48        | 1,420     | 04-14 | 1930 | 4.71        | 89        |
| 10-03 | 0530 | 5.23        | 179       | 01-26 | 1300 | 8.98        | 1,250     | 04-14 | 1945 | 4.53        | 65        |
| 10-03 | 0545 | 5.00        | 136       | 01-26 | 1315 | 8.28        | 1,020     | 04-14 | 2000 | 4.39        | 48        |
| 10-03 | 0600 | 4.77        | 98        | 01-26 | 1330 | 7.62        | 807       | 04-14 | 2015 | 4.27        | 36        |
| 10-03 | 0615 | 4.53        | 65        | 01-26 | 1345 | 7.02        | 624       | 04-14 | 2045 | 4.06        | 19        |
| 10-03 | 0630 | 4.34        | 43        | 01-26 | 1400 | 6.46        | 467       |       |      |             |           |
| 10-03 | 0645 | 4.17        | 28        | 01-26 | 1430 | 5.77        | 295       | 07-09 | 1745 | 4.26        | 35        |
|       |      |             |           | 01-26 | 1445 | 5.58        | 253       | 07-09 | 1800 | 5.05        | 145       |
| 12-17 | 1745 | 4.18        | 28        | 01-26 | 1515 | 5.48        | 231       | 07-09 | 1815 | 7.49        | 766       |
| 12-17 | 1800 | 5.33        | 200       | 01-26 | 1545 | 5.78        | 298       | 07-09 | 1830 | 9.26        | 1,340     |
| 12-17 | 1815 | 7.85        | 881       | 01-26 | 1615 | 6.25        | 412       | 07-09 | 1845 | 9.47        | 1,410     |
| 12-17 | 1830 | 8.87        | 1,210     | 01-26 | 1630 | 6.42        | 457       | 07-09 | 1900 | 8.77        | 1,180     |
| 12-17 | 1845 | 8.45        | 1,070     | 01-26 | 1645 | 6.46        | 467       | 07-09 | 1915 | 8.05        | 946       |
| 12-17 | 1900 | 7.92        | 904       | 01-26 | 1700 | 6.32        | 430       | 07-09 | 1930 | 7.21        | 680       |
| 12-17 | 1915 | 7.23        | 686       | 01-26 | 1730 | 6.00        | 350       | 07-09 | 1945 | 6.34        | 436       |
| 12-17 | 1930 | 6.51        | 481       | 01-26 | 1800 | 5.65        | 268       | 07-09 | 2000 | 5.55        | 246       |
| 12-17 | 1945 | 5.89        | 323       | 01-26 | 1830 | 5.20        | 174       | 07-09 | 2015 | 4.99        | 134       |
| 12-17 | 2000 | 5.44        | 222       | 01-26 | 1900 | 4.81        | 104       | 07-09 | 2030 | 4.61        | 75        |
| 12-17 | 2015 | 5.13        | 160       | 01-26 | 1915 | 4.65        | 80        | 07-09 | 2045 | 4.32        | 41        |
| 12-17 | 2030 | 4.88        | 115       | 01-26 | 1945 | 4.38        | 47        | 07-09 | 2100 | 4.10        | 22        |
| 12-17 | 2045 | 4.66        | 82        |       |      |             |           |       |      |             |           |
| 12-17 | 2100 | 4.47        | 57        | 03-25 | 0330 | 4.69        | 86        |       |      |             |           |
| 12-17 | 2115 | 4.29        | 38        | 03-25 | 0345 | 6.29        | 423       |       |      |             |           |
| 12-17 | 2130 | 4.15        | 26        | 03-25 | 0400 | 7.97        | 920       |       |      |             |           |
|       |      |             |           | 03-25 | 0415 | 8.72        | 1,160     |       |      |             |           |
|       |      |             |           | 03-25 | 0430 | 9.05        | 1,270     |       |      |             |           |
|       |      |             |           | 03-25 | 0445 | 8.77        | 1,180     |       |      |             |           |
|       |      |             |           | 03-25 | 0500 | 8.32        | 1,030     |       |      |             |           |
|       |      |             |           | 03-25 | 0515 | 7.69        | 829       |       |      |             |           |
|       |      |             |           | 03-25 | 0530 | 7.01        | 621       |       |      |             |           |
|       |      |             |           | 03-25 | 0545 | 6.36        | 441       |       |      |             |           |
|       |      |             |           | 03-25 | 0600 | 5.87        | 319       |       |      |             |           |
|       |      |             |           | 03-25 | 0615 | 5.49        | 233       |       |      |             |           |
|       |      |             |           | 03-25 | 0630 | 5.18        | 170       |       |      |             |           |
|       |      |             |           | 03-25 | 0645 | 4.94        | 125       |       |      |             |           |
|       |      |             |           | 03-25 | 0700 | 4.70        | 87        |       |      |             |           |
|       |      |             |           | 03-25 | 0715 | 4.50        | 61        |       |      |             |           |
|       |      |             |           | 03-25 | 0730 | 4.33        | 42        |       |      |             |           |

## Flood hydrograph partial-record stations

## PEARL RIVER BASIN

02485950 TOWN CREEK AT JACKSON, MS

LOCATION.--Lat 32°18'14", long 90°11'32", 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, 3,320 ft<sup>3</sup>/s, Jan. 25, gage height, 10.62 ft.

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1996

| Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge |
|-------|------|-------------|-----------|-------|------|-------------|-----------|-------|------|-------------|-----------|
| 12-17 | 1800 | 3.97        | 590       | 01-25 | 1645 | 3.19        | 377       | 03-25 | 0315 | 3.57        | 477       |
| 12-17 | 1815 | 6.03        | 1,280     | 01-25 | 1715 | 3.38        | 426       | 03-25 | 0330 | 5.22        | 989       |
| 12-17 | 1830 | 7.18        | 1,730     | 01-25 | 1745 | 3.33        | 413       | 03-25 | 0345 | 6.84        | 1,600     |
| 12-17 | 1845 | 7.70        | 1,950     | 01-25 | 1815 | 3.25        | 392       | 03-25 | 0400 | 7.84        | 2,010     |
| 12-17 | 1900 | 7.80        | 2,000     | 01-25 | 1845 | 3.20        | 380       | 03-25 | 0415 | 8.26        | 2,200     |
| 12-17 | 1915 | 7.69        | 1,950     | 01-25 | 1900 | 3.28        | 400       | 03-25 | 0430 | 8.28        | 2,210     |
| 12-17 | 1930 | 7.30        | 1,780     | 01-25 | 1915 | 3.56        | 474       | 03-25 | 0445 | 8.16        | 2,150     |
| 12-17 | 1945 | 6.87        | 1,610     | 01-25 | 1930 | 4.26        | 677       | 03-25 | 0500 | 7.69        | 1,950     |
| 12-17 | 2000 | 6.40        | 1,420     | 01-25 | 1945 | 5.13        | 958       | 03-25 | 0515 | 7.29        | 1,780     |
| 12-17 | 2015 | 5.79        | 1,190     | 01-25 | 2000 | 6.00        | 1,270     | 03-25 | 0530 | 6.81        | 1,580     |
| 12-17 | 2030 | 5.41        | 1,060     | 01-25 | 2015 | 6.51        | 1,460     | 03-25 | 0545 | 6.29        | 1,380     |
| 12-17 | 2045 | 5.00        | 914       | 01-25 | 2030 | 7.06        | 1,680     | 03-25 | 0600 | 5.88        | 1,230     |
| 12-17 | 2115 | 4.46        | 739       | 01-25 | 2045 | 7.58        | 1,900     | 03-25 | 0615 | 5.45        | 1,070     |
| 12-17 | 2200 | 3.90        | 570       | 01-25 | 2100 | 7.63        | 1,920     | 03-25 | 0630 | 5.25        | 1,000     |
| 12-17 | 2245 | 3.59        | 483       | 01-25 | 2115 | 7.46        | 1,850     | 03-25 | 0645 | 4.97        | 904       |
| 12-17 | 2330 | 3.29        | 403       | 01-25 | 2130 | 7.31        | 1,790     | 03-25 | 0700 | 4.75        | 832       |
| 12-17 | 2345 | 3.20        | 380       | 01-25 | 2145 | 6.88        | 1,610     | 03-25 | 0715 | 4.58        | 777       |
|       |      |             |           | 01-25 | 2215 | 7.73        | 1,970     | 03-25 | 0730 | 4.35        | 705       |
| 12-18 | 0030 | 3.46        | 447       | 01-25 | 2230 | 8.30        | 2,210     | 03-25 | 0745 | 4.19        | 656       |
| 12-18 | 0115 | 3.90        | 570       | 01-25 | 2245 | 8.40        | 2,260     | 03-25 | 0800 | 4.10        | 629       |
| 12-18 | 0145 | 3.99        | 596       | 01-25 | 2300 | 8.57        | 2,340     | 03-25 | 0815 | 3.88        | 564       |
| 12-18 | 0215 | 3.88        | 564       | 01-25 | 2315 | 8.74        | 2,410     | 03-25 | 0830 | 3.73        | 521       |
| 12-18 | 0230 | 3.82        | 547       | 01-25 | 2330 | 9.85        | 2,940     | 03-25 | 0845 | 3.59        | 483       |
| 12-18 | 0345 | 3.98        | 593       | 01-25 | 2345 | 10.53       | 3,280     | 03-25 | 0900 | 3.50        | 458       |
| 12-18 | 0400 | 4.16        | 647       | 01-25 | 2400 | 10.62       | 3,320     | 03-25 | 0915 | 3.36        | 421       |
| 12-18 | 0430 | 4.39        | 717       | 01-26 | 0015 | 10.53       | 3,280     | 03-25 | 0930 | 3.22        | 385       |
| 12-18 | 0500 | 4.84        | 861       | 01-26 | 0030 | 10.35       | 3,190     | 03-25 | 0945 | 3.12        | 360       |
| 12-18 | 0545 | 5.37        | 1,040     | 01-26 | 0045 | 10.14       | 3,080     | 03-25 | 1000 | 3.05        | 342       |
| 12-18 | 0615 | 5.65        | 1,140     | 01-26 | 0100 | 9.77        | 2,900     |       |      |             |           |
| 12-18 | 0645 | 5.99        | 1,270     | 01-26 | 0115 | 9.21        | 2,630     | 04-14 | 1415 | 2.90        | 305       |
| 12-18 | 0715 | 6.18        | 1,340     | 01-26 | 0130 | 8.01        | 2,090     | 04-14 | 1430 | 5.67        | 1,150     |
| 12-18 | 0730 | 6.25        | 1,360     | 01-26 | 0145 | 7.60        | 1,910     | 04-14 | 1445 | 7.24        | 1,760     |
| 12-18 | 0745 | 6.09        | 1,300     | 01-26 | 0200 | 7.24        | 1,760     | 04-14 | 1500 | 7.72        | 1,980     |
| 12-18 | 0800 | 5.95        | 1,250     | 01-26 | 0215 | 7.06        | 1,680     | 04-14 | 1515 | 7.88        | 2,030     |
| 12-18 | 0830 | 5.47        | 1,080     | 01-26 | 0245 | 6.86        | 1,600     | 04-14 | 1530 | 7.69        | 1,950     |
| 12-18 | 0900 | 4.95        | 898       | 01-26 | 0315 | 7.06        | 1,680     | 04-14 | 1545 | 7.48        | 1,860     |
| 12-18 | 0930 | 4.56        | 770       | 01-26 | 0330 | 7.20        | 1,740     | 04-14 | 1600 | 6.89        | 1,620     |
| 12-18 | 1000 | 4.24        | 671       | 01-26 | 0400 | 7.24        | 1,760     | 04-14 | 1615 | 7.48        | 1,480     |
| 12-18 | 1030 | 3.93        | 579       | 01-26 | 0415 | 7.05        | 1,680     | 04-14 | 1630 | 6.89        | 1,350     |
| 12-18 | 1115 | 3.53        | 466       | 01-26 | 0430 | 6.98        | 1,650     | 04-14 | 1645 | 6.55        | 1,230     |
| 12-18 | 1200 | 3.20        | 380       | 01-26 | 0445 | 6.79        | 1,580     | 04-14 | 1700 | 6.22        | 1,160     |
| 12-18 | 1230 | 3.08        | 350       | 01-26 | 0500 | 6.59        | 1,500     | 04-14 | 1730 | 5.90        | 1,090     |
| 12-18 | 1300 | 3.98        | 593       | 01-26 | 0515 | 6.34        | 1,400     | 04-14 | 1745 | 5.62        | 1,130     |
| 12-18 | 1315 | 4.88        | 874       | 01-26 | 0530 | 6.13        | 1,320     | 04-14 | 1815 | 5.69        | 1,160     |
| 12-18 | 1330 | 5.80        | 1,200     | 01-26 | 0545 | 5.91        | 1,240     | 04-14 | 1830 | 5.50        | 1,090     |
| 12-18 | 1345 | 6.58        | 1,490     | 01-26 | 0600 | 5.49        | 1,080     | 04-14 | 1845 | 5.39        | 1,050     |
| 12-18 | 1400 | 7.04        | 1,680     | 01-26 | 0615 | 5.36        | 1,040     | 04-14 | 1900 | 5.25        | 1,000     |
| 12-18 | 1430 | 7.66        | 1,940     | 01-26 | 0630 | 5.10        | 948       | 04-14 | 1915 | 4.92        | 888       |
| 12-18 | 1445 | 7.70        | 1,950     | 01-26 | 0645 | 4.90        | 881       | 04-14 | 1930 | 4.70        | 815       |
| 12-18 | 1515 | 7.30        | 1,780     | 01-26 | 0700 | 4.71        | 819       | 04-14 | 1945 | 4.62        | 790       |
| 12-18 | 1545 | 6.80        | 1,580     | 01-26 | 0715 | 4.61        | 786       | 04-14 | 2000 | 4.32        | 695       |
| 12-18 | 1615 | 6.41        | 1,430     | 01-26 | 0730 | 4.46        | 739       | 04-14 | 2015 | 4.19        | 656       |
| 12-18 | 1645 | 6.03        | 1,280     | 01-26 | 0745 | 4.27        | 680       | 04-14 | 2030 | 3.96        | 587       |
| 12-18 | 1715 | 5.59        | 1,120     | 01-26 | 0815 | 3.95        | 584       | 04-14 | 2100 | 3.65        | 499       |
| 12-18 | 1745 | 5.15        | 965       | 01-26 | 0845 | 3.71        | 516       | 04-14 | 2130 | 3.43        | 439       |
| 12-18 | 1815 | 4.82        | 855       | 01-26 | 0915 | 3.58        | 480       | 04-14 | 2200 | 3.18        | 375       |
| 12-18 | 1845 | 4.47        | 742       | 01-26 | 0945 | 3.41        | 434       | 04-14 | 2230 | 3.06        | 345       |
| 12-18 | 2000 | 3.63        | 494       | 01-26 | 1015 | 3.20        | 380       |       |      |             |           |
| 12-18 | 2045 | 3.29        | 403       | 01-26 | 1045 | 3.01        | 332       |       |      |             |           |
| 12-18 | 2130 | 3.02        | 335       |       |      |             |           |       |      |             |           |

## Flood hydrograph partial-record stations

## PEARL RIVER BASIN

02486100 LYNCH CREEK AT JACKSON, MS

LOCATION.--Lat 32°17'04", long 90°12'52", 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, unknown.

## GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1996 WATER YEAR

| Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge |
|-------|------|-------------|-----------|-------|------|-------------|-----------|-------|------|-------------|-----------|
| 06-14 | 0100 | 5.44        | 549       | 07-09 | 0800 | 5.10        | 486       | 07-28 | 0100 | 5.63        | 586       |
| 06-14 | 0200 | 5.35        | 532       | 07-09 | 0900 | 5.06        | 479       | 07-28 | 0200 | 5.48        | 557       |
| 06-14 | 0300 | 5.28        | 519       | 07-09 | 1000 | 5.02        | 471       | 07-28 | 0300 | 5.38        | 538       |
| 06-14 | 0400 | 5.23        | 510       | 07-09 | 1100 | 4.98        | 464       | 07-28 | 0400 | 5.31        | 525       |
| 06-14 | 0500 | 5.20        | 504       | 07-09 | 1200 | 4.90        | 450       | 07-28 | 0500 | 5.25        | 513       |
| 06-14 | 0600 | 5.17        | 499       | 07-09 | 1300 | 4.91        | 452       | 07-28 | 0600 | 5.21        | 506       |
| 06-14 | 0700 | 5.14        | 493       | 07-09 | 1400 | 4.91        | 452       | 07-28 | 0700 | 5.19        | 502       |
| 06-14 | 0800 | 5.12        | 489       | 07-09 | 1500 | 4.94        | 457       | 07-28 | 0800 | 5.11        | 488       |
| 06-14 | 0900 | 5.10        | 486       | 07-09 | 1600 | 4.93        | 455       | 07-28 | 0830 | 5.12        | 489       |
| 06-14 | 0930 | 5.11        | 488       | 07-09 | 1630 | 4.92        | 454       | 07-28 | 0900 | 5.09        | 484       |
| 06-14 | 1000 | 5.23        | 510       | 07-09 | 1700 | 4.88        | 447       | 07-28 | 0930 | 7.18        | 923       |
| 06-14 | 1030 | 5.55        | 571       | 07-09 | 1730 | 4.86        | 443       | 07-28 | 0945 | 10.06       | 1,710     |
| 06-14 | 1100 | 6.59        | 787       | 07-09 | 1800 | 4.99        | 466       | 07-28 | 1000 | 11.35       | 2,130     |
| 06-14 | 1115 | 7.90        | 1,100     | 07-09 | 1830 | 8.48        | 1,250     | 07-28 | 1015 | 11.84       | 2,300     |
| 06-14 | 1130 | 9.93        | 1,670     | 07-09 | 1845 | 10.29       | 1,780     | 07-28 | 1030 | 12.03       | 2,360     |
| 06-14 | 1145 | 10.94       | 1,990     | 07-09 | 1900 | 11.20       | 2,080     | 07-28 | 1045 | 12.01       | 2,360     |
| 06-14 | 1200 | 11.27       | 2,100     | 07-09 | 1915 | 11.67       | 2,240     | 07-28 | 1100 | 11.85       | 2,300     |
| 06-14 | 1215 | 11.34       | 2,120     | 07-09 | 1930 | 11.73       | 2,260     | 07-28 | 1115 | 11.46       | 2,170     |
| 06-14 | 1230 | 11.15       | 2,060     | 07-09 | 1945 | 11.40       | 2,150     | 07-28 | 1130 | 10.91       | 1,980     |
| 06-14 | 1245 | 10.74       | 1,930     | 07-09 | 2000 | 10.83       | 1,960     | 07-28 | 1145 | 10.27       | 1,780     |
| 06-14 | 1300 | 10.25       | 1,770     | 07-09 | 2030 | 9.31        | 1,490     | 07-28 | 1200 | 9.62        | 1,580     |
| 06-14 | 1330 | 9.15        | 1,440     | 07-09 | 2100 | 8.04        | 1,140     | 07-28 | 1230 | 8.49        | 1,260     |
| 06-14 | 1400 | 8.15        | 1,170     | 07-09 | 2130 | 7.16        | 919       | 07-28 | 1300 | 7.60        | 1,030     |
| 06-14 | 1430 | 7.43        | 984       | 07-09 | 2200 | 6.61        | 792       | 07-28 | 1330 | 7.02        | 886       |
| 06-14 | 1500 | 6.91        | 860       | 07-09 | 2230 | 6.26        | 715       | 07-28 | 1400 | 6.61        | 792       |
| 06-14 | 1530 | 6.57        | 783       | 07-09 | 2300 | 5.98        | 657       | 07-28 | 1430 | 6.29        | 722       |
| 06-14 | 1600 | 6.38        | 741       | 07-09 | 2400 | 5.67        | 594       | 07-28 | 1500 | 6.09        | 680       |
| 06-14 | 1630 | 6.25        | 713       | 07-10 | 0100 | 5.49        | 559       | 07-28 | 1600 | 5.81        | 622       |
| 06-14 | 1700 | 6.12        | 686       | 07-10 | 0200 | 5.38        | 538       | 07-28 | 1700 | 5.61        | 582       |
| 06-14 | 1730 | 5.99        | 659       | 07-10 | 0300 | 5.29        | 521       | 07-28 | 1800 | 5.47        | 555       |
| 06-14 | 1800 | 5.88        | 636       | 07-10 | 0400 | 5.22        | 508       | 07-28 | 1900 | 5.36        | 534       |
| 06-14 | 1900 | 5.68        | 596       | 07-10 | 0500 | 5.20        | 504       | 07-28 | 2000 | 5.27        | 517       |
| 06-14 | 2000 | 5.51        | 563       | 07-10 | 0600 | 5.18        | 500       | 07-28 | 2100 | 5.21        | 506       |
| 06-14 | 2100 | 5.38        | 538       | 07-10 | 0700 | 5.12        | 489       | 07-28 | 2200 | 5.18        | 500       |
| 06-14 | 2200 | 5.31        | 525       | 07-10 | 0800 | 5.08        | 482       | 07-28 | 2300 | 5.13        | 491       |
| 06-14 | 2300 | 5.26        | 515       |       |      |             |           | 07-28 | 2400 | 5.13        | 491       |
| 06-14 | 2400 | 5.21        | 506       |       |      |             |           |       |      |             |           |

## Flood hydrograph partial-record stations

## PEARL RIVER BASIN

02486350 CANY CREEK AT JACKSON, MS

LOCATION.--Lat 32°14'14", long 90°13'58", in Nel/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. Occasional backwater from Pearl River. 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, 3,620 ft<sup>3</sup>/s, Jan. 26, gage height 11.96 ft.

GAGE HEIGHT, IN FEET, AND DISCHARGE, IN CUBIC FEET PER SECOND, AT INDICATED TIME, 1996 WATER YEAR

| Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge | Date  | Time | Gage Height | Discharge |
|-------|------|-------------|-----------|-------|------|-------------|-----------|-------|------|-------------|-----------|
| 12-18 | 0100 | 6.28        | 509       | 01-26 | 0100 | 3.65        | 58        | 03-25 | 0100 | 3.84        | 72        |
| 12-18 | 0200 | 6.36        | 528       | 01-26 | 0200 | 3.64        | 58        | 03-25 | 0130 | 3.82        | 70        |
| 12-18 | 0300 | 6.40        | 538       | 01-26 | 0300 | 3.66        | 59        | 03-25 | 0200 | 3.81        | 70        |
| 12-18 | 0400 | 6.62        | 595       | 01-26 | 0400 | 3.71        | 63        | 03-25 | 0230 | 3.80        | 69        |
| 12-18 | 0500 | 7.12        | 736       | 01-26 | 0500 | 3.99        | 90        | 03-25 | 0300 | 3.73        | 63        |
| 12-18 | 0600 | 7.61        | 887       | 01-26 | 0600 | 4.58        | 188       | 03-25 | 0315 | 4.01        | 90        |
| 12-18 | 0700 | 7.91        | 989       | 01-26 | 0700 | 4.71        | 241       | 03-25 | 0330 | 4.93        | 212       |
| 12-18 | 0800 | 7.54        | 865       | 01-26 | 0800 | 6.14        | 598       | 03-25 | 0345 | 7.22        | 739       |
| 12-18 | 0900 | 6.90        | 673       | 01-26 | 0900 | 7.53        | 1,090     | 03-25 | 0400 | 8.88        | 1,330     |
| 12-18 | 1000 | 6.41        | 541       | 01-26 | 1000 | 8.28        | 1,470     | 03-25 | 0415 | 9.99        | 1,790     |
| 12-18 | 1030 | 6.23        | 497       | 01-26 | 1030 | 8.10        | 1,430     | 03-25 | 0425 | 10.19       | 1,880     |
| 12-18 | 1100 | 6.09        | 464       | 01-26 | 1100 | 8.92        | 1,820     | 03-25 | 0435 | 10.35       | 1,950     |
| 12-18 | 1130 | 5.90        | 421       | 01-26 | 1115 | 9.27        | 2,000     | 03-25 | 0445 | 10.44       | 2,000     |
| 12-18 | 1200 | 5.78        | 393       | 01-26 | 1130 | 9.41        | 2,090     | 03-25 | 0455 | 10.35       | 1,950     |
| 12-18 | 1230 | 5.77        | 390       | 01-26 | 1145 | 9.53        | 2,170     | 03-25 | 0505 | 10.18       | 1,880     |
| 12-18 | 1300 | 6.83        | 653       | 01-26 | 1200 | 9.88        | 2,370     | 03-25 | 0515 | 10.01       | 1,800     |
| 12-18 | 1330 | 8.06        | 1,040     | 01-26 | 1215 | 10.76       | 2,880     | 03-25 | 0530 | 9.80        | 1,710     |
| 12-18 | 1400 | 8.80        | 1,330     | 01-26 | 1230 | 11.61       | 3,480     | 03-25 | 0545 | 9.34        | 1,510     |
| 12-18 | 1430 | 9.74        | 1,720     | 01-26 | 1240 | 11.96       | 3,620     | 03-25 | 0600 | 8.78        | 1,280     |
| 12-18 | 1440 | 9.76        | 1,730     | 01-26 | 1245 | 11.96       | 3,620     | 03-25 | 0615 | 8.22        | 1,070     |
| 12-18 | 1450 | 9.59        | 1,660     | 01-26 | 1300 | 11.90       | 3,620     | 03-25 | 0630 | 7.67        | 878       |
| 12-18 | 1500 | 9.43        | 1,590     | 01-26 | 1315 | 11.64       | 3,590     | 03-25 | 0645 | 7.32        | 768       |
| 12-18 | 1530 | 8.86        | 1,360     | 01-26 | 1330 | 11.19       | 3,500     | 03-25 | 0700 | 7.03        | 685       |
| 12-18 | 1600 | 8.25        | 1,110     | 01-26 | 1345 | 10.71       | 3,220     | 03-25 | 0730 | 6.65        | 579       |
| 12-18 | 1630 | 7.65        | 901       | 01-26 | 1400 | 10.16       | 2,840     | 03-25 | 0800 | 6.38        | 511       |
| 12-18 | 1700 | 7.23        | 768       | 01-26 | 1430 | 8.86        | 2,130     | 03-25 | 0830 | 6.13        | 453       |
| 12-18 | 1730 | 6.91        | 676       | 01-26 | 1500 | 7.93        | 1,690     | 03-25 | 0900 | 5.88        | 395       |
| 12-18 | 1800 | 6.68        | 611       | 01-26 | 1530 | 7.56        | 1,510     | 03-25 | 0930 | 5.72        | 359       |
| 12-18 | 1830 | 6.48        | 558       | 01-26 | 1600 | 7.66        | 1,540     | 03-25 | 1000 | 5.62        | 338       |
| 12-18 | 1900 | 6.30        | 513       | 01-26 | 1630 | 7.97        | 1,650     | 03-25 | 1030 | 5.49        | 311       |
| 12-18 | 1930 | 6.14        | 476       | 01-26 | 1700 | 8.05        | 1,670     | 03-25 | 1100 | 5.31        | 277       |
| 12-18 | 2000 | 6.00        | 444       | 01-26 | 1800 | 7.93        | 1,580     | 03-25 | 1130 | 4.97        | 219       |
| 12-18 | 2030 | 5.88        | 416       | 01-26 | 1900 | 7.24        | 1,260     | 03-25 | 1200 | 4.65        | 166       |
| 12-18 | 2100 | 5.76        | 388       | 01-26 | 2000 | 6.67        | 1,010     | 03-25 | 1300 | 4.43        | 136       |
| 12-18 | 2130 | 5.64        | 361       | 01-26 | 2100 | 6.32        | 865       | 03-25 | 1400 | 4.28        | 118       |
| 12-18 | 2200 | 5.48        | 327       | 01-26 | 2200 | 6.01        | 745       | 03-25 | 1500 | 4.28        | 118       |
| 12-18 | 2230 | 5.14        | 263       | 01-26 | 2300 | 5.74        | 642       | 03-25 | 1600 | 4.19        | 108       |
| 12-18 | 2300 | 4.89        | 221       | 01-26 | 2400 | 5.53        | 561       | 03-25 | 1700 | 4.12        | 101       |
| 12-18 | 2400 | 4.71        | 190       | 01-27 | 0100 | 4.87        | 386       | 03-25 | 1800 | 4.09        | 98        |
|       |      |             |           | 01-27 | 0200 | 4.50        | 290       | 03-25 | 1900 | 4.01        | 90        |
|       |      |             |           | 01-27 | 0300 | 4.34        | 246       | 03-25 | 2000 | 3.98        | 87        |
|       |      |             |           | 01-27 | 0400 | 4.27        | 221       |       |      |             |           |
|       |      |             |           | 01-27 | 0500 | 4.20        | 193       |       |      |             |           |
|       |      |             |           | 01-27 | 0600 | 4.18        | 177       |       |      |             |           |
|       |      |             |           | 01-27 | 0700 | 4.14        | 158       |       |      |             |           |
|       |      |             |           | 01-27 | 0800 | 3.97        | 124       |       |      |             |           |

## 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.

## Annual maximum discharge at crest-stage partial-record stations during water year 1996

| Station name<br>and<br>number                               | Location<br>and<br>drainage area                                                                                                                                                                                                                                                             | Period<br>of<br>record                      | Water year 1996 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°17'39", long 88°42'32",<br>SW1/4SE1/4 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>1971-96           | 4-23-96                 | <20.63                 | <5,760                                 | 3-21-55                  | 27.72                  | 23,000                                 |
| Coonewah Creek<br>at Shannon, MS<br>(02435800)              | Lat 34°08'17", long 88°43'08",<br>in SE1/4 sec. 12, T.11 S., R.<br>5 E., Chickasaw Meridain,<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> .                        | 1953-96                                     | 4-22-96                 | 15.68                  | a4,600                                 | 4-11-62                  | 19.57                  | 22,400                                 |
| Chiwapa Creek at<br>Shannon, MS<br>(02436000)               | Lat 34°06'35", long 88°43'20",<br>in SE1/4 sec. 24, T.11 S., R.<br>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>1968-96                        | 6-08-96                 | 11.66                  | 17,800                                 | 3-21-55                  | 15.72                  | 35,500                                 |
| Mattubby Creek<br>near Aberdeen,<br>MS (02437300)           | Lat 33°52'13", long 88°35'46",<br>in SE1/4SE1/4 sec.7, T.14 S.,<br>R.7 E., 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> .   | 1937,<br>1952-96                            | 4-22-96                 | 92.67                  | 7,740                                  | 12-21-90                 | 95.27                  | 14,600                                 |
| Nichols Creek<br>tributary near<br>Quincy, MS<br>(02437550) | Lat 33°54'20", long 88°21'05",<br>in SE1/4 sec. 29, T.13 S., R.<br>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> .                                   | 1967-96                                     | 4-21-96                 | 5.33                   | 180                                    | 10-30-93                 | 9.70                   | 510                                    |
| James Creek at<br>Aberdeen, MS<br>(02437600)                | Lat 38°48'48", long 88°33'59",<br>in SW1/4SE1/4 SEC.33, T.14 S.,<br>R.7 E., Chickasaw Meridian,<br>Monroe County, Hydrologic<br>Unit 03160101, at bridge on<br>State Highway 25, 0.4 mi south-<br>west of Aberdeen. Drainage<br>area is 28.4 mi2.                                            | 1964-68†,<br>1969-96                        | 4-22-96                 | 22.56                  | 3,140                                  | 10-22-84                 | 15.21                  | 6,970                                  |
| Chuquatonchee<br>Creek near<br>Okalona, MS<br>(02439980)    | Lat 34°00'05", long 88°53'00",<br>in NE1/4 sec. 33, T.12 R.4 E.,<br>Chickasaw Meridian, Chicka-<br>saw County, Hydrologic Unit<br>03160104, at bridge on State<br>Highway 32, 7.5 mi west of<br>Okolona. Drainage area is<br>68.6 mi <sup>2</sup> .                                          | 1963-68,<br>1969-80,<br>1984-86,<br>1988-96 | 7-31-96                 | (b)                    | (t)                                    | 3-16-73                  | 16.93                  | 15,000                                 |
| Chuquatonchee<br>Creek near<br>Egypt, MS<br>(02440000)      | Lat 33°50'24", long 88°45'40",<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>1974-96                        | 7-31-96                 | 14.56                  | 14,400                                 | 3-16-73                  | 16.61                  | 36,300                                 |

## Annual maximum discharge at crest-stage partial-record stations during water year 1996

| Station name<br>and<br>number                                        | Location<br>and<br>drainage area                                                                                                                                                                                                                                                                       | Period<br>of<br>record            | Water year 1996 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                                        |                                                                                                                                                                                                                                                                                                        |                                   |                                             |                                     |                                        |                          |                        |                                        |
| Houlka Creek<br>near McCondy,<br>MS (02440400)                       | Lat 33°47'05", long 88°51'15",<br>in SE1/4SW1/4 sec.11, T.15 S.,<br>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 is<br>189 mi <sup>2</sup> .                                                   | 1963-68†,<br>1969-96              | 4-22-96                                     | 13.99                               | 6,890                                  | 3-16-73                  | 18.65                  | 40,000                                 |
| Chuquatonchee<br>Creek near<br>West Point,<br>MS (02440500)          | Lat 33°36'25", long 88°42'30",<br>on line between secs. 7<br>and 18, T.17 S., R.6 E.,<br>Chidkasaw Meridian, Clay<br>County, Hydrologic Unit<br>03160104, at bridge on<br>State Highway 50, 3.0 mi<br>west of West Point. Drainage<br>area is 505 mi <sup>2</sup> .                                    | 1944-73†,<br>1974-96              | 4-23-96                                     | 17.17                               | 9,840                                  | 3-17-73                  | 24.58                  | 57,100                                 |
| Line Creek near<br>Maben, MS<br>(02440600)                           | Lat 33°39'17", long 89°03'41",<br>in S1/2 sec.26 T.16 S., R.2<br>E., Chickasaw Meridian,<br>Webster County, Hydrologic<br>Unit 03160104, at bridge on<br>State Highway 15, 1,000 ft<br>below Gulf, Mobile, and Ohio<br>Railroad, and 7.0 mi north of<br>Maben. Drainage area is 4.76 mi <sup>2</sup> . | 1952-96                           | 4-22-96                                     | 26.93                               | 5,640                                  | 12-03-83                 | 28.33                  | 7,540                                  |
| Trim Cane Creek<br>near Starkville<br>MS (02440800)                  | Lat 33°28'08", long 88°54'30",<br>in W1/2 sec.25, T.19 N., R.13<br>E., Choctaw Meridian, Oktib-<br>beha County, Hydrologic Unit<br>03160104, at bridge on U.S.<br>Highway 82, 3.0 mi above Biba<br>Wila Creek, and 6.0 mi west of<br>Starkville. Drainage area is<br>44.9 mi <sup>2</sup> .            | 1952-96                           | 12-22-94<br>12-18-95                        | 16.69<br><15.88                     | d1,770<br><1,490                       | 5-19-83                  | 28.10                  | 9,980                                  |
| Sand Creek trib-<br>utary near<br>Mayhew, MS<br>(02441220)           | Lat 33°28'37", long 88°43'23",<br>on line between SW1/4 sec.17<br>and NW1/4 sec.34, T.19N., R.15<br>E., Choctaw Meridian, Oktib-<br>beha County, Hydrologic Unit<br>03160104, on U.S. Highway 82,<br>3.7 mi west of Mayhew.<br>Drainage area is 0.44 mi <sup>2</sup> .                                 | 1966-96                           | 12-18-95                                    | 4.00                                | 70.0                                   | 4-27-84                  | 8.75                   | 395                                    |
| Catalpa Creek<br>at Mayhew, MS<br>(02441300)                         | Lat 33°28'53", long 88°37'42",<br>in NE1/4SW1/4 sec.28, T.19 N.,<br>R.15 E., Choctaw 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>1969-96              | 4-20-92<br>2-16-93<br>d 3-08-95<br>12-18-95 | d14.15<br>d14.91<br>d16.59<br>16.00 | d2,850<br>d3,750<br>d5,950<br>5,080    | 4-13-79                  | 21.52                  | 19,800                                 |
| Luxapallila<br>Creek at<br>Steens, MS<br>(02443000)                  | Lat 33°33'35", long 88°18'55",<br>in NE1/4 sec.27, T.17 S., R.<br>17 W., Huntsville Meridian,<br>Lowndes County, Hydrologic<br>Unit 03160105, on county hwy<br>0.2 mi southeast of Steens.<br>Drainage area is 309 mi <sup>2</sup> .                                                                   | 1944-47†,<br>1950-77†,<br>1978-96 | 4-22-96                                     | 17.31                               | 7,440                                  | 1-06-49                  | 19.20                  | 16,000                                 |
| Flat Scooba<br>Creek tribu-<br>tary near<br>Scooba, MS<br>(02448620) | Lat 32°50'27", long 88°28'08",<br>in SE1/4 sec.32, T.12 N., R.<br>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> .                                                      | 1967-96                           | 1-27-96                                     | 4.57                                | 89.0                                   | 4-12-79                  | 8.87                   | 427                                    |
| PASCAGOULA RIVER BASIN                                               |                                                                                                                                                                                                                                                                                                        |                                   |                                             |                                     |                                        |                          |                        |                                        |
| Leaf River near<br>Raleigh, MS<br>(02471100)                         | Lat 32°00'47", long 89°25'58",<br>in SE1/4SE1/4 sec.13, T.2 N.,<br>R.8 E., Choctaw Meridian,<br>Smith County, Hydrologic<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>1957-96              | 11-11-95                                    | 21.72                               | 6,050                                  | 4-13-74                  | 28.17                  | 17,000                                 |



Annual maximum discharge at crest-stage partial-record stations during water year 1996

| Station name<br>and<br>number                                  | Location<br>and<br>drainage area                                                                                                                                                                                                                                                                                   | Period<br>of<br>record | Water year 1996 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) |  |
| PASCAGOULA RIVER BASIN                                         |                                                                                                                                                                                                                                                                                                                    |                        |                         |                        |                                        |                          |                        |                                        |  |
| 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> .                                                     | 1968-96                | 12-19-95                | 41.83                  | 8,040                                  | 4-14-74                  | 57.44                  | 37,600                                 |  |
| Oakohay Creek at<br>Mize, MS<br>(02471500)                     | Lat 31°52'00", long 89°32'49",<br>in NW1/4 sec.6 T.10 N., R.<br>15, W., St. Stephens Meridi-<br>an, Smith County, Hydrologic<br>Unit 03170004, on State High-<br>way 28, at Mize. Drainage<br>area is 185 mi <sup>2</sup> .                                                                                        | 1943-49+,<br>1968-96   | 3-07-96                 | 12.13                  | 4,000                                  | 4-13-74                  | 17.26                  | 28,900                                 |  |
| Bouie Creek near<br>Sanford, MS<br>(02472420)                  | Lat 31°28'20", long 89°31'20",<br>in NE1/4 sec.20, T.6 N., R.15<br>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> .                              | 1968-96                | 3-07-96                 | 16.68                  | 3,260                                  | 4-13-74                  | 32.22                  | 32,000                                 |  |
| Gordon Creek at<br>Hattiesburg,<br>MS (02473047)               | Lat 31°19'42", long 89°18'14",<br>in NW1/4NE1/4 sec.9, T.4 N., R.<br>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> .                                                                         | 1969-96                | 4-06-96                 | 9.27                   | 1,090                                  | 4-06-83                  | 16.89                  | 6,920                                  |  |
| Tallahattah<br>Creek near<br>Waldrup, MS<br>(02473480)         | Lat 31°51'40", long 89°05'10",<br>in NW1/4SE1/4 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>1971-96   | 1-27-96                 | 13.40                  | 415                                    | 3-03-79                  | 17.20                  | 7,200                                  |  |
| Tallahoma Creek<br>tributary at<br>Lake Como, MS<br>(02473850) | Lat 31°57'43", long 89°12'18",<br>on line between SE1/4 sec.31,<br>T.1 N., and NE1/4 sec.6, R.11<br>E., (revised) Choctaw Meridian,<br>Jasper County, Hydrologic<br>Unit 03170005, at culvert on<br>State Highway 528, 0.5 mi east<br>of Lake Como. Drainage area<br>is 3.21 mi <sup>2</sup> .                     | 1966-96                | 1-27-96                 | 7.71                   | 1,300                                  | 7-13-93                  | 11.49                  | 2,380                                  |  |
| Buck Creek near<br>Runnelstown<br>MS (02474650)                | Lat 31°21'50", long 89°03'08",<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> .                                                                                                    | 1951-96                | 12-18-95                | <9.14                  | <1,530                                 | 4-03-79                  | 17.93                  | 5,700                                  |  |
| Waterfall Branch<br>near McLain,<br>MS (02475050)              | Lat 31°07'08", long 88°45'28",<br>in SW1/4NE1/4SE1/4 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> . | 1955-96                | 4-15-96                 | 6.63                   | 260                                    | 6-01-59                  | 11.71                  | 764                                    |  |
| Souinlovey Creek<br>near Baxter,<br>MS (02477050)              | Lat 32°13'10", long 89°09'30",<br>in NE1/4 sec.3, T.4 N., R.11<br>E., Choctaw Meridian, Jasper<br>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> .                                                                    | 1965-96                | 3-06-96                 | 6.44                   | 272                                    | 6-24-93                  | 13.56                  | 1,150                                  |  |

## Annual maximum discharge at crest-stage partial-record stations during water year 1996

| Station name<br>and<br>number                                    | Location<br>and<br>drainage area                                                                                                                                                                                                                                                                                                          | Period<br>of<br>record | Water year 1996 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) |
| PASCAGOULA RIVER BASIN--Continued                                |                                                                                                                                                                                                                                                                                                                                           |                        |                                                                                                  |                                                                                        |                                                                                        |                          |                        |                                        |
| Shubuta Creek<br>near Shubuta,<br>MS (02477330)                  | Lat 31°53'04", long 88°44'20",<br>in NW1/4 sec.35, T.1 N., R.15<br>E., Choctaw Meridian, Clarke<br>County, Hydrologic Unit<br>03170002, at county highway<br>1.5 mi northwest of Shubuta<br>and 5.0 mi above mouth.<br>Drainage area is 75.5 mi <sup>2</sup> .                                                                            | 1963-96                | 1-27-96                                                                                          | 14.05                                                                                  | 1,560                                                                                  | 4-25-73                  | 24.88                  | 12,700                                 |
| TCHOUTACABOUFFA RIVER BASIN                                      |                                                                                                                                                                                                                                                                                                                                           |                        |                                                                                                  |                                                                                        |                                                                                        |                          |                        |                                        |
| Tuxachanie Creek<br>near Biloxi,<br>MS (02480500)                | Lat 30°30'35", long 88°54'40",<br>in SE1/4 sec.20, T.6 S., R.<br>9 W., St. Stephens Meridian<br>Harrison County, Hydrologic<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>1972-96   | 12-18-95                                                                                         | 17.08                                                                                  | 5,060                                                                                  | 5-10-95                  | 24.74                  | 32,700                                 |
| BILOXI RIVER BASIN                                               |                                                                                                                                                                                                                                                                                                                                           |                        |                                                                                                  |                                                                                        |                                                                                        |                          |                        |                                        |
| Biloxi River<br>near Lyman,<br>MS (02481130)                     | Lat 30°29'18", long 89°02'09",<br>in SE1/4 sec.25, T.6 S.,<br>R.11 W., St. Stephens Mer-<br>idian, Harrison County,<br>Hydrologic Unit 03170009,<br>on downstream side of right<br>pier of bridge on county<br>highway, 1.2 mi downstream<br>from Little Biloxi River,<br>4.6 mi east of Lyman.<br>Drainage area is 251 mi <sup>2</sup> . | 1965-96                | 12-18-95                                                                                         | 18.07                                                                                  | 10,900                                                                                 | 5-10-95                  | 23.95                  | 36,800                                 |
| PEARL RIVER BASIN                                                |                                                                                                                                                                                                                                                                                                                                           |                        |                                                                                                  |                                                                                        |                                                                                        |                          |                        |                                        |
| Yockanookany<br>River tributary<br>near McCool, MS<br>(02483890) | Lat 33°10'06", long 89°25'28",<br>in SW1/4 sec.7 T.15 N., R.9 E.,<br>Choctaw Meridian, Attala<br>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> .                                                                                        | 1965-96                | 4-23-96                                                                                          | <3.14                                                                                  | <66.0                                                                                  | 2-20-91                  | 7.73                   | 540                                    |
| Coffee Bogue at<br>Ludlow, MS<br>(02484600)                      | Lat 32°34'25", long 89°43'48",<br>in N1/2 of line between sec.1<br>and sec.6, T.8 N., R.5 E.,<br>Choctaw Meridian, Scott<br>County, Hydrologic Unit<br>03180002, at bridge on<br>county road, 1.0 mi west<br>of Ludlow. Drainage area<br>is 77.0 mi <sup>2</sup> .                                                                        | 1975-96                | 4-12-80<br>7-04-89<br>2-12-90<br>4-29-91<br>8-27-92<br>1-22-93<br>1-28-94<br>4-21-95<br>12-18-95 | d14.76<br>d>13.12<br>d14.26<br>d13.89<br>d12.40<br>d11.53<br>d15.23<br>d13.64<br>14.27 | d6,410<br>d>2,670<br>d4,020<br>d3,530<br>d2,030<br>d1,440<br>d5,560<br>d3,230<br>4,030 | 7-04-89                  | 15.93                  | 9,550                                  |
| Red Cane Creek<br>tributary near<br>Pisgah, MS<br>(02484750)     | Lat 32°28'05", long 89°47'55",<br>on line between NE1/4 sec.8<br>and NW1/4 sec.9, Choctaw Merid-<br>ian, Rankin County, Hydrologic<br>Unit 03180002, at circular<br>culvert on State Highway 43,<br>4.1 mi east of Pisgah.<br>Drainage area is 0.10 mi <sup>2</sup> .                                                                     | 1965-96                | 10-03-95                                                                                         | 6.26                                                                                   | 110                                                                                    | 7-14-93                  | 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., R.<br>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> .                                                                                              | 1971-96                | 12-18-95                                                                                         | 12.24                                                                                  | 5,650                                                                                  | 4-12-80                  | 13.35                  | 9,000                                  |
| Purple Creek at<br>Jackson, MS<br>(02485650)                     | Lat 32°22'48", long 90°07'19",<br>in NW1/4 sec.8, T.6 N., R. 2<br>E., Choctaw Meridian, Hinds<br>County, Hydrologic Unit<br>03180002, at Old Canton Road<br>bridge in Jackson and 1.5 mi<br>above mouth. Drainage area<br>is 6.12 mi <sup>2</sup> .                                                                                       | 1952-96                | 7-09-96                                                                                          | 11.23                                                                                  | 1,380                                                                                  | 4-29-53                  | 99.92                  | 2,890                                  |

Annual maximum discharge at crest-stage partial-record stations during water year 1996

| Station name<br>and<br>number                                | Location<br>and<br>drainage area                                                                                                                                                                                                                                                                                                          | Period<br>of<br>record           | Water year 1996 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) |
| PEARL RIVER BASIN--Continued                                 |                                                                                                                                                                                                                                                                                                                                           |                                  |                         |                        |                                        |                          |                        |                                        |
| Three Mile Creek<br>at Jackson, MS<br>(02486115)             | Lat 32°16'15", long 90°13'00",<br>in NW1/4SE1/4 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), 0.6 mi<br>above Illinois Central Rail<br>Railroad. Drainage area is<br>1.05 mi <sup>2</sup> .                                                         | 1962-96                          | 10-03-95                | 10.06                  | 1,090                                  | 8-30-74                  | 31.52                  | 1,720                                  |
| Strong River<br>near Puckett,<br>MS (02487300)               | Lat 32°03'48", long 89°44'50",<br>in SE1/2SE1/2 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 area is<br>248 mi <sup>2</sup> .                                                                                             | 1955-96                          | 3-08-96                 | 23.77                  | 8,050                                  | 4-07-83                  | 26.47                  | 18,600                                 |
| Copiah Creek<br>near<br>Hazlehurst,<br>MS (02487900)         | Lat 31°53'23", long 90°17'10",<br>in SW1/4SE1/4 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<br>east of Hazlehurst. Drainage<br>area is 47.4 mi <sup>2</sup> .                                                                                   | 1948-65,<br>1966-68†,<br>1969-96 | 12-19-95                | 12.67                  | 4,100                                  | 4-12-80                  | 25.11                  | 32,000                                 |
| Elmers Draw<br>near<br>Columbia,<br>MS (02489030)            | Lat 31°11'58", long 89°57'57",<br>in SE1/4SE1/4NW1/4 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, 1964,<br>at datum 1.12 ft higher. Drainage<br>area is 0.91 mi <sup>2</sup> .                                     | 1955-96                          | 12-09-95                | 6.38                   | 285                                    | 4-06-83                  | 16.22                  | 1,620                                  |
| West Hobolochitto<br>Creek near<br>McNeill, MS<br>(02492360) | Lat 30°39'42", long 89°41'10",<br>in NW1/4NE1/4 sec.34, T.4 S.,<br>R.17 W., St. Stephens Meridian,<br>Pearl River County, Hydrologic<br>Unit 031800004, at bridge on<br>county road, 3.1 mi west of<br>McNeill. Drainage area is<br>175 mi <sup>2</sup> .                                                                                 | 1966-68†,<br>1969-96             | 4-15-96                 | 16.08                  | 3,850                                  | 1-21-93                  | 23.43                  | 27,800                                 |
| YAZOO RIVER BASIN                                            |                                                                                                                                                                                                                                                                                                                                           |                                  |                         |                        |                                        |                          |                        |                                        |
| Hell Creek near<br>New Albany, MS<br>(07267000)              | Lat 34°30'55", long 89°03'10",<br>in SW1/4 sec.36, T.6 S., R.2<br>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>1952-96             | 4-22-96                 | 8.79                   | 3,760                                  | 12-26-82                 | 13.50                  | 8,420                                  |
| Cypress Creek<br>near Etta, MS<br>(07268500)                 | Lat 34°26'30", long 89°17'25",<br>in SE1/4 sec.27, T.7 S., R.<br>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. Drain-<br>age area is 28.5 mi <sup>2</sup> . | 1939-42†,<br>1952-96             | 4-22-96                 | 12.42                  | 3,700                                  | 5-19-83                  | 19.94                  | 11,300                                 |
| North Tippah<br>Creek near<br>Ripley, MS<br>(07269000)       | Lat 34°44'00", long 89°01'34",<br>in SW1/4 sec.18, T.4 S., R.3<br>E., Chickasaw Meridian,<br>Tippah County, Hydrologic<br>Unit 08030201, at bridge on<br>State Highway 4, 2.0 mi up-<br>stream 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>1988-96 | 4-23-96                 | <8.03                  | <538                                   | 4-12-79                  | 21.60                  | (†)                                    |

Annual maximum discharge at crest-stage partial-record stations during water year 1996

| Station name<br>and<br>number                                     | Location<br>and<br>drainage area                                                                                                                                                                                                                                                                          | Period<br>of<br>record | Water year 1996 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                                      |                                                                                                                                                                                                                                                                                                           |                        |                         |                        |                                        |                          |                        |                                        |
| Long Creek at<br>Courtland, MS<br>(07275500)                      | Lat 34°13'40", long 89°56'20",<br>near center of sec.9, T.10<br>S., R.7 W., Chickasaw Merid-<br>ian, Panola 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 Batesville.<br>Drainage area is 66.2 mi <sup>2</sup> . | 1940-43+,<br>1952-96   | 4-23-96                 | 15.51                  | 6,900                                  | 5-28-54                  | 25.02                  | 38,300                                 |
| Long Creek near<br>Cascilla, MS<br>(07285700)                     | Lat 33°51'40", long 89°59'05",<br>in NE1/4 sec.16, T.23 N., R.3<br>E., Choctaw Meridian, Talla-<br>hatchie County, Hydrologic<br>Unit 08030205, at culvert<br>on county highway, 1.1 mi<br>east of Cascilla. Drainage<br>area is 1.64 mi <sup>2</sup> .                                                   | 1965-96                | 4-23-96                 | 10.30                  | 1,280                                  | 5-08-84                  | 12.70                  | 1,860                                  |
| Fannegusha Creek<br>near Tchula,<br>MS (07287350)                 | Lat 33°10'00", long 90°10'12",<br>on line between secs.11 and<br>14, T.15 N., R.1 E., Choctaw<br>Meridian, Holmes County,<br>Hydrologic Unit 08030206,<br>on State Highway 12, east<br>of Tchula. Drainage area is<br>103 mi <sup>2</sup> .                                                               | 1953-65e,<br>1968-96   | 4-23-96                 | (b)                    | a6,900                                 | 4-26-70                  | 24.54                  | 23,000                                 |
| BIG BLACK RIVER BASIN                                             |                                                                                                                                                                                                                                                                                                           |                        |                         |                        |                                        |                          |                        |                                        |
| Hays Creek<br>tributary<br>No. 1 near<br>Vaiden, MS<br>(07289265) | Lat 33°23'10", long 89°46'07",<br>in SE1/4SW1/4 sec.27, T.18 N.,<br>R. 5 E., Choctaw Meridian,<br>Carroll County, Hydrologic<br>Unit 08060201, at bridge on<br>U.S. Highway 51, 3.9 mi north<br>of Vaiden. Drainage area is<br>14.0 mi <sup>2</sup> .                                                     | 1960-74<br>1976-96     | 4-21-96                 | 25.58                  | 2,500                                  | 12-02-91                 | 26.14                  | 3,540                                  |
| Tilda Bogue near<br>Canton, MS<br>(07289600)                      | Lat 32°39'15", long 90°00'05",<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 area is 24.4 mi <sup>2</sup> .                                     | 1948-96                | 12-18-95                | 17.71                  | 2,350                                  | 4-29-53                  | 19.00                  | 8,800                                  |
| Clear Creek near<br>Bovina, MS<br>(07290005)                      | Lat 32°21'42", long 90°43'32",<br>in SW1/4 sec.17, T.16 N., R.<br>5 E., Washington Meridian,<br>Warren County, Hydrologic<br>Unit 08060202, on county<br>road, 1.0 mi northeast of<br>Bovina. Drainage area is<br>32.0 mi <sup>2</sup> .                                                                  | 1953-96                | 12-18-95                | 21.48                  | 3,320                                  | 4-13-69                  | 30.03                  | 21,000                                 |
| BAYOU PIERRE BASIN                                                |                                                                                                                                                                                                                                                                                                           |                        |                         |                        |                                        |                          |                        |                                        |
| Clarks Creek<br>near Pattison,<br>MS (07290690)                   | Lat 31°53'40", long 90°50'40",<br>in lot 35, T.11 N., R.4 E.,<br>Washington Meridian, Clai-<br>borne 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>1963-96   | 6-14-96                 | <14.62                 | <5,730                                 | 4-12-80                  | 27.90                  | 31,000                                 |
| Little Creek<br>near<br>Fayette, MS<br>(07290830)                 | Lat 31°40'30", long 91°04'10",<br>in SE1/4 of irregular section<br>24, T.8 N., R.1 E., Washing-<br>ton Meridian, Jefferson County,<br>Hydrologic Unit 08060204, at<br>culvert on State Highway 33,<br>2.0 mi south of Fayette.<br>Drainage area is 1.71 mi <sup>2</sup> .                                 | 1967-96                | 3-07-96                 | 11.55                  | 1,090                                  | 4-12-74                  | 15.45                  | 1,800                                  |

Annual maximum discharge at crest-stage partial-record stations during water year 1996

| Station name<br>and<br>number                         | Location<br>and<br>drainage area                                                                                                                                                                                                                                                                                                 | Period<br>of<br>record        | Water year 1996 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) |
| COLES CREEK BASIN                                     |                                                                                                                                                                                                                                                                                                                                  |                               |                         |                        |                                        |         |                        |                                        |
| Coles Creek near<br>Fayette, MS<br>(07290870)         | Lat 31°45'55", long 91°11'30",<br>in lot 21, T.9 N., R.1 W.,<br>Washington Meridain, Jeffer-<br>son County, Hydrologic Unit<br>08060204, at bridge on county<br>highway, 0.7 mi below con-<br>fluence of North and South<br>Forks of Coles Creek, and<br>10.0 mi northwest of Fayette.<br>Drainage area is 257 mi <sup>2</sup> . | 1961-62†, 12-18-95<br>1963-96 | (b)                     | (†)                    | 4-12-74                                | 31.96   | 75,000                 |                                        |
| HOMOCHITTO RIVER BASIN                                |                                                                                                                                                                                                                                                                                                                                  |                               |                         |                        |                                        |         |                        |                                        |
| McCall Creek<br>near<br>Lucien<br>(07291250)          | Lat 31°30'24", long 90°38'45",<br>in SW1/4 sec.6, T.6 N., R.6<br>E., Washington Meridian, Frank-<br>lin County, Hydrologic Unit<br>08060205, at U.S. Highway 84,<br>0.8 mi east of Lucien.<br>Drainage area is 60.8 mi <sup>2</sup> .                                                                                            | 1953,<br>1955-96              | 12-18-95                | <82.36                 | <6,450                                 | 4-13-74 | 92.70                  | 23,000                                 |
| THOMPSON CREEK BASIN                                  |                                                                                                                                                                                                                                                                                                                                  |                               |                         |                        |                                        |         |                        |                                        |
| Moore's Branch<br>near<br>Woodville, MS<br>(07373550) | Lat 31°05'20", long 91°14'30",<br>in SE1/4SW1/4 sec.32, T.2 N.,<br>1 W., Washington Meridian,<br>R. Wilkinson County, Hydrologic<br>Unit 08070201, at State High-<br>way 24, 3.3 mi east of Woodville.<br>Prior to Oct. 1, 1964, at datum<br>0.88 ft lower. Drainage area<br>is 0.21 mi <sup>2</sup> .                           | 1955-96                       | 12-18-95                | 5.67                   | 191                                    | 3-24-73 | 9.90                   | 455                                    |

† 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.

## 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 1996

| Stream                                                  | Tributary to    | Location                                                                                                                                                                                          | Drainage<br>area<br>(mi <sup>2</sup> ) | Measured<br>previously<br>(water<br>years) | Measurements         |                                   |
|---------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------|----------------------|-----------------------------------|
|                                                         |                 |                                                                                                                                                                                                   |                                        |                                            | Date                 | Discharge<br>(ft <sup>3</sup> /s) |
| YAZOO RIVER BASIN                                       |                 |                                                                                                                                                                                                   |                                        |                                            |                      |                                   |
| 07277520<br>Hickahala<br>Creek near<br>Independence, MS | Coldwater River | Lat 34°40'30", long 89°45'27",<br>In SE1/4 sec. 6, T.5 S.,<br>R.5 W., Chickasaw Meridian,<br>Tate County, Hydrologic Unit<br>08030204, on State Highway 305,<br>3.0 mi northeast of Looxahoma.    | 25.3                                   | 1995,                                      | 10-31-95<br>11-01-95 | 7.72<br>8.32                      |
| 07277530<br>Hickahala<br>Creek near<br>Looxahoma, MS    | Coldwater River | Lat 34°38'29", long 89°48'39",<br>In NE1/4 sec.22, T.5 S.,<br>R.6 W., Chickasaw Meridian,<br>Tate County, Hydrologic Unit<br>08030204, on State Highway<br>305, 3.0 mi northeast of<br>Looxahoma. | 44.7                                   | 1988-95                                    | 10-31-95<br>11-01-95 | 22.0<br>25.3                      |
| 07277548<br>James Wolf<br>Creek near<br>Looxahoma, MS   | Hickahala Creek | Lat 34°36'06", long 89°49'17",<br>In SE1/4 sec.27, T.5 S.,<br>R.6 W., Chickasaw Meridian,<br>Tate County, Hydrologic Unit<br>08030203, on State Highway 4,<br>1.0 mi northeast of Looxahoma.      | 35.2                                   | 1988-95                                    | 10-31-95<br>11-01-95 | 8.35<br>8.90                      |
| 07277715<br>Senatobia<br>Creek near<br>Como, MS         | Hickahala Creek | Lat 34°33'01", long 89°52'50",<br>In NE1/4 sec.24, T.6 S.,<br>R.7 W., Chickasaw Meridian,<br>Panola County, Hydrologic Unit<br>08030204, on country road,<br>3.3 mi northeast of Como.            | 20.4                                   | 1988-95                                    | 10-31-95<br>11-01-95 | 3.60<br>4.76                      |



Discharge measurements made at special study and miscellaneous sites during water year 1996

## PASCAGOULA RIVER BASIN

02479343 PASCAGOULA RIVER AT MILE 8 NEAR ESCATAWPA, MS

LOCATION.--Lat 30°26'17", long 88°33'28", in sec.14, T.7 S., R.6 W., St. Stephens Meridian, Jackson County, Hydrologic Unit 03170006, at Interstate Highway 10, 1.5 mi southwest of Escatawpa, and at mile 8.0.

PERIOD OF STUDY.--September 21 at 0900 hours through September 22 at 0900 hours, 1996.

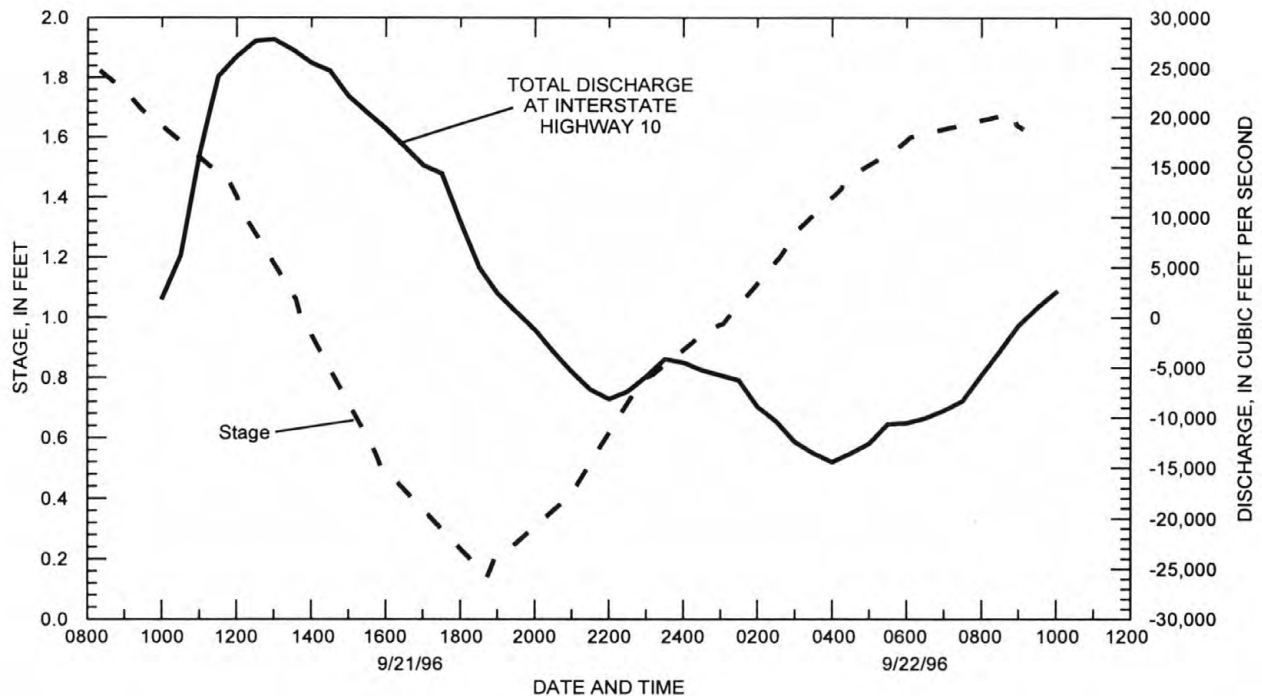
GAGE.--Temporary staff gage. Datum of gage was set at approximately sea level.

REMARKS.--Measurements of gage height and discharge were made approximately every 12 minutes for 24 hours during a tidal cycle. Discharge was also measured on the West Pascagoula River 0.6 mi downstream of Interstate Highway 10. The measured discharges were combined to determine total basin discharge (drainage area of 8,420 mi<sup>2</sup>) at Interstate Highway 10.

EXTREMES FOR PERIOD OF STUDY.--

GAGE HEIGHT: Maximum, 1.8 ft, Sept. 21 at 0838 hours; minimum, 0.1 ft, Sept. 21 at 1843 hours; average, 1.0 ft.

DISCHARGE: Maximum, 27,800 ft<sup>3</sup>/s, Sept. 21 at 1300 hours; minimum, -14,400 ft<sup>3</sup>/s, Sept. 22 at 0400 hours; average, 2,580 ft<sup>3</sup>/s.



Discharge measurements made at special study and miscellaneous sites during water year 1996

## JOURDAN RIVER BASIN

02481667 JOURDAN RIVER AT I-10 NEAR KILN, MS

LOCATION.--Lat 30°21'54", long 89°24'05", near middle of sec.9, T.8 S., R.14 W., St. Stephens Meridian, Hancock County, Hydrologic Unit 03170009, at Interstate Highway 10, 3.9 mi southeast of Kiln, and at mile 4.5.

DRAINAGE AREA.--288 mi<sup>2</sup>.

PERIOD OF STUDY.--September 19 at 1500 hours through September 20 at 1600 hours, 1996.

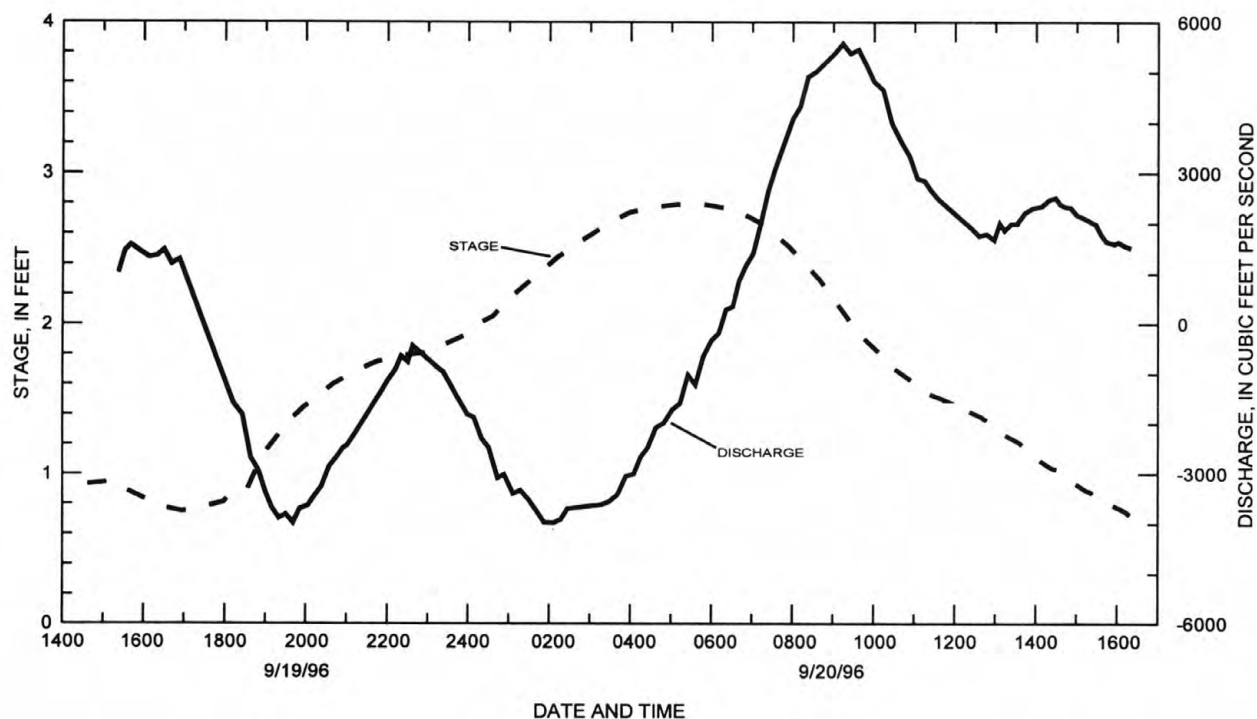
GAGE.--Temporary staff gage. Datum of gage was set at approximately sea level.

REMARKS.--Measurements of gage height and discharge were made approximately every 12 minutes through a complete 25-hour tidal cycle at a location approximately 0.2 mi downstream of Interstate Highway 10.

## EXTREMES FOR PERIOD OF STUDY.--

GAGE HEIGHT: Maximum, 2.8 ft, Sept. 20 at 0530 hours; minimum, 0.7 ft, Sept. 19 at 1657 hours; average, 1.7 ft.

DISCHARGE: Maximum, 5,580 ft<sup>3</sup>/s, Sept. 20 at 0914 hours; minimum, -3,980 ft<sup>3</sup>/s, Sept. 19 at 1941 hours; average, 80 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.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## MOBILE RIVER BASIN

## 02437500 TOMBIGBEE RIVER AT ABERDEEN, MS

|              |      | DIS-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) |                                                                         |                                                                         |                                                                         |
|--------------|------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|
| DATE         | TIME |                                                                         |                                                                         |                                                                         |                                                                          |                                                                          |                                                                         |                                                                         |                                                                         |
| JAN<br>18... | 0855 | 2990                                                                    |                                                                         | 67                                                                      | 541                                                                      | --                                                                       |                                                                         |                                                                         |                                                                         |
| FEB<br>22... | 0845 | 3950                                                                    |                                                                         | 87                                                                      | 928                                                                      | --                                                                       |                                                                         |                                                                         |                                                                         |
| MAR<br>19... | 1500 | 14700                                                                   |                                                                         | 211                                                                     | 8370                                                                     | --                                                                       |                                                                         |                                                                         |                                                                         |
| APR<br>03... | 0915 | 3650                                                                    |                                                                         | 64                                                                      | 631                                                                      | --                                                                       |                                                                         |                                                                         |                                                                         |
| 21...        | 1755 | 24700                                                                   |                                                                         | 464                                                                     | 30900                                                                    | --                                                                       |                                                                         |                                                                         |                                                                         |
| 21...        | 2130 | 27200                                                                   |                                                                         | 522                                                                     | 38300                                                                    | --                                                                       |                                                                         |                                                                         |                                                                         |
| 22...        | 0235 | 29600                                                                   |                                                                         | 552                                                                     | 44100                                                                    | 97                                                                       |                                                                         |                                                                         |                                                                         |
| 22...        | 0915 | 29100                                                                   |                                                                         | 437                                                                     | 34300                                                                    | --                                                                       |                                                                         |                                                                         |                                                                         |
| 22...        | 1345 | 23100                                                                   |                                                                         | 310                                                                     | 19300                                                                    | --                                                                       |                                                                         |                                                                         |                                                                         |
| 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) |
| APR<br>22... | 0235 | 55                                                                      | 65                                                                      | 73                                                                      | 80                                                                       | 90                                                                       | 97                                                                      | 99                                                                      | 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 18... | 1155 | 4640                                                                  | 55                                                                      | 689                                                                      |
| FEB 22... | 1110 | 5170                                                                  | 82                                                                      | 1140                                                                     |
| APR 03... | 1215 | 2930                                                                  | 57                                                                      | 450                                                                      |

Short-term water-quality studies were conducted on selected stream reaches and estuaries to collect water-quality data for use in hydrologic analyses. Data for estuary studies generally are collected once or twice daily at near high and near low tides.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## PASCAGOULA RIVER BASIN

## PASCAGOULA AND ESCATAWPA RIVERS STUDY

## 303048088355800 PASCAGOULA RIVER AT MILE 17

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-------|------|---------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| AUG   |      |                                             |                                                              |                                                                      |                                                 |                                                |
| 23... | 0816 | 1.00                                        | 106                                                          | 6.9                                                                  | 29.0                                            | 6.1                                            |
| 23... | 0817 | 5.00                                        | 117                                                          | 6.6                                                                  | 29.0                                            | 6.0                                            |
| 23... | 0818 | 10.0                                        | 120                                                          | 6.6                                                                  | 29.0                                            | 5.9                                            |
| 23... | 0819 | 12.0                                        | 107                                                          | 6.6                                                                  | 29.0                                            | 5.8                                            |

| DATE | TIME | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML)<br>(31625) | STREP-<br>TOCOCCHI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML)<br>(31673) |
|------|------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------|
|------|------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------|

|     |       |      |     |     |
|-----|-------|------|-----|-----|
| AUG | 23... | 0815 | K12 | 120 |
|-----|-------|------|-----|-----|

## 303044088353000 PASCAGOULA RIVER AT MILE 16

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-------|------|---------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| AUG   |      |                                             |                                                              |                                                                      |                                                 |                                                |
| 23... | 0807 | 1.00                                        | 116                                                          | 6.9                                                                  | 29.0                                            | 6.2                                            |
| 23... | 0808 | 5.00                                        | 118                                                          | 6.8                                                                  | 29.0                                            | 6.0                                            |
| 23... | 0809 | 10.0                                        | 134                                                          | 6.8                                                                  | 29.0                                            | 5.9                                            |
| 23... | 0810 | 15.0                                        | 127                                                          | 6.7                                                                  | 29.0                                            | 5.9                                            |
| 23... | 0811 | 19.0                                        | 560                                                          | 6.7                                                                  | 29.0                                            | 5.9                                            |
| 23... | 1711 | 1.00                                        | 117                                                          | 7.1                                                                  | 29.0                                            | 6.8                                            |
| 23... | 1712 | 5.00                                        | 114                                                          | 6.9                                                                  | 29.5                                            | 6.1                                            |
| 23... | 1713 | 10.0                                        | 119                                                          | 6.8                                                                  | 29.5                                            | 6.0                                            |
| 23... | 1714 | 15.0                                        | 116                                                          | 6.8                                                                  | 29.5                                            | 5.9                                            |

| DATE | TIME | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML)<br>(31625) | STREP-<br>TOCOCCHI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML)<br>(31673) |
|------|------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------|
|------|------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------|

|     |       |      |     |    |
|-----|-------|------|-----|----|
| AUG | 23... | 1710 | K15 | 87 |
|-----|-------|------|-----|----|

## 303018088351800 PASCAGOULA RIVER AT MILE 15

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-------|------|---------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| AUG   |      |                                             |                                                              |                                                                      |                                                 |                                                |
| 23... | 0802 | 1.00                                        | 165                                                          | 6.6                                                                  | 29.0                                            | 6.3                                            |
| 23... | 0803 | 5.00                                        | 215                                                          | 6.7                                                                  | 29.0                                            | 6.1                                            |
| 23... | 0804 | 10.0                                        | 731                                                          | 6.7                                                                  | 29.0                                            | 6.0                                            |
| 23... | 0805 | 15.0                                        | 26600                                                        | 6.7                                                                  | 28.5                                            | 3.3                                            |
| 23... | 1702 | 1.00                                        | 412                                                          | 7.2                                                                  | 29.0                                            | 6.6                                            |
| 23... | 1703 | 5.00                                        | 483                                                          | 7.0                                                                  | 29.5                                            | 6.0                                            |
| 23... | 1704 | 10.0                                        | 660                                                          | 7.0                                                                  | 29.5                                            | 5.9                                            |
| 23... | 1705 | 13.0                                        | 1160                                                         | 6.9                                                                  | 29.5                                            | 5.8                                            |

WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES  
WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

PASCAGOULA RIVER BASIN--Continued

PASCAGOULA AND ESCATAWPA RIVERS STUDY--Continued

302954088344000 PASCAGOULA RIVER AT MILE 14

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-------|------|---------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| AUG   |      |                                             |                                                              |                                                                      |                                                 |                                                |
| 23... | 0756 | 1.00                                        | 640                                                          | 7.1                                                                  | 29.0                                            | 6.0                                            |
| 23... | 0757 | 5.00                                        | 730                                                          | 7.0                                                                  | 29.0                                            | 5.8                                            |
| 23... | 0758 | 10.0                                        | 32100                                                        | 7.0                                                                  | 29.0                                            | 2.8                                            |
| 23... | 0759 | 15.0                                        | 33400                                                        | 7.2                                                                  | 28.5                                            | 0.6                                            |
| 23... | 0800 | 18.0                                        | 33500                                                        | 7.2                                                                  | 28.5                                            | 0.3                                            |
| 23... | 1657 | 1.00                                        | 2250                                                         | 7.2                                                                  | 29.5                                            | 5.9                                            |
| 23... | 1658 | 5.00                                        | 2630                                                         | 7.1                                                                  | 29.5                                            | 5.6                                            |
| 23... | 1659 | 10.0                                        | 3080                                                         | 7.0                                                                  | 29.5                                            | 5.6                                            |
| 23... | 1700 | 13.0                                        | 3270                                                         | 7.0                                                                  | 29.5                                            | 5.5                                            |

02479341 PASCAGOULA RIVER AT MILE 13 NEAR COLL TOWN, MS

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-------|------|---------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| AUG   |      |                                             |                                                              |                                                                      |                                                 |                                                |
| 23... | 0751 | 1.00                                        | 1270                                                         | 7.2                                                                  | 29.0                                            | 6.0                                            |
| 23... | 0752 | 5.00                                        | 1460                                                         | 7.1                                                                  | 29.0                                            | 5.8                                            |
| 23... | 0753 | 10.0                                        | 30800                                                        | 7.0                                                                  | 29.0                                            | 3.8                                            |
| 23... | 0754 | 13.0                                        | 35000                                                        | 7.3                                                                  | 28.5                                            | 0.6                                            |
| 23... | 1653 | 1.00                                        | 4990                                                         | 7.3                                                                  | 29.5                                            | 5.5                                            |
| 23... | 1654 | 5.00                                        | 5360                                                         | 7.1                                                                  | 29.5                                            | 5.3                                            |
| 23... | 1655 | 10.0                                        | 9740                                                         | 7.1                                                                  | 29.5                                            | 4.6                                            |
| 23... | 1656 | 13.0                                        | 31500                                                        | 7.2                                                                  | 28.5                                            | 1.0                                            |

02479342 PASCAGOULA RIVER AT MILE 12 NEAR COLL TOWN, MS

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-------|------|---------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| AUG   |      |                                             |                                                              |                                                                      |                                                 |                                                |
| 23... | 0743 | 1.00                                        | 2430                                                         | 7.2                                                                  | 28.5                                            | 6.0                                            |
| 23... | 0744 | 5.00                                        | 19900                                                        | 7.0                                                                  | 29.0                                            | 3.6                                            |
| 23... | 0745 | 10.0                                        | 31800                                                        | 7.2                                                                  | 29.0                                            | 1.3                                            |
| 23... | 0746 | 15.0                                        | 33600                                                        | 7.3                                                                  | 28.5                                            | 0.3                                            |
| 23... | 0747 | 20.0                                        | 36300                                                        | 7.4                                                                  | 28.5                                            | 0.2                                            |
| 23... | 0748 | 25.0                                        | 36800                                                        | 7.4                                                                  | 28.5                                            | 0.1                                            |
| 23... | 0749 | 30.0                                        | 37500                                                        | 7.5                                                                  | 28.5                                            | 0.1                                            |
| 23... | 1646 | 1.00                                        | 5270                                                         | 7.2                                                                  | 29.5                                            | 6.0                                            |
| 23... | 1647 | 5.00                                        | 6050                                                         | 7.1                                                                  | 29.5                                            | 5.6                                            |
| 23... | 1648 | 10.0                                        | 33200                                                        | 7.3                                                                  | 29.5                                            | 1.0                                            |
| 23... | 1649 | 15.0                                        | 34200                                                        | 7.3                                                                  | 28.0                                            | 0.3                                            |
| 23... | 1650 | 20.0                                        | 35600                                                        | 7.4                                                                  | 28.5                                            | 0.1                                            |
| 23... | 1651 | 25.0                                        | 37000                                                        | 7.4                                                                  | 28.5                                            | 0.1                                            |

302822088332500 PASCAGOULA RIVER AT MILE 11

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-------|------|---------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| AUG   |      |                                             |                                                              |                                                                      |                                                 |                                                |
| 23... | 0738 | 1.00                                        | 5730                                                         | 7.2                                                                  | 28.5                                            | 7.9                                            |
| 23... | 0739 | 5.00                                        | 17200                                                        | 7.1                                                                  | 29.0                                            | 4.5                                            |
| 23... | 0740 | 10.0                                        | 34200                                                        | 7.3                                                                  | 29.0                                            | 0.9                                            |
| 23... | 0741 | 14.0                                        | 35300                                                        | 7.3                                                                  | 28.5                                            | 0.2                                            |
| 23... | 1640 | 1.00                                        | 4950                                                         | 7.1                                                                  | 30.0                                            | 6.2                                            |
| 23... | 1641 | 5.00                                        | 5380                                                         | 7.1                                                                  | 29.5                                            | 5.8                                            |
| 23... | 1642 | 10.0                                        | 26600                                                        | 7.0                                                                  | 29.0                                            | 2.0                                            |
| 23... | 1643 | 15.0                                        | 35000                                                        | 7.3                                                                  | 28.5                                            | 0.3                                            |
| 23... | 1644 | 17.0                                        | 37000                                                        | 7.4                                                                  | 28.5                                            | 0.1                                            |

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## PASCAGOULA RIVER BASIN--Continued

## PASCAGOULA AND ESCATAWPA RIVERS STUDY--Continued

302725088333700 PASCAGOULA RIVER AT MILE 10

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-------|------|---------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| AUG   |      |                                             |                                                              |                                                                      |                                                 |                                                |
| 23... | 0732 | 1.00                                        | 5830                                                         | 7.3                                                                  | 28.5                                            | 6.1                                            |
| 23... | 0733 | 5.00                                        | 18400                                                        | 7.2                                                                  | 29.5                                            | 4.5                                            |
| 23... | 0734 | 10.0                                        | 30000                                                        | 7.3                                                                  | 29.0                                            | 2.8                                            |
| 23... | 0735 | 15.0                                        | 34700                                                        | 7.4                                                                  | 29.0                                            | 0.8                                            |
| 23... | 1635 | 1.00                                        | 4770                                                         | 7.2                                                                  | 29.5                                            | 6.4                                            |
| 23... | 1636 | 5.00                                        | 5350                                                         | 7.1                                                                  | 29.5                                            | 5.8                                            |
| 23... | 1637 | 10.0                                        | 30400                                                        | 7.1                                                                  | 29.0                                            | 1.6                                            |
| 23... | 1638 | 15.0                                        | 34500                                                        | 7.3                                                                  | 28.5                                            | 0.3                                            |

302648088340600 PASCAGOULA RIVER AT MILE 9

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-------|------|---------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| AUG   |      |                                             |                                                              |                                                                      |                                                 |                                                |
| 23... | 0725 | 1.00                                        | 6590                                                         | 7.2                                                                  | 28.5                                            | 6.0                                            |
| 23... | 0726 | 5.00                                        | 18900                                                        | 7.0                                                                  | 29.0                                            | 4.5                                            |
| 23... | 0727 | 10.0                                        | 31600                                                        | 7.3                                                                  | 29.0                                            | 1.7                                            |
| 23... | 0728 | 15.0                                        | 33500                                                        | 7.4                                                                  | 29.0                                            | 1.5                                            |
| 23... | 0729 | 20.0                                        | 34800                                                        | 7.4                                                                  | 29.0                                            | 0.6                                            |
| 23... | 0730 | 25.0                                        | 36800                                                        | 7.5                                                                  | 29.0                                            | 0.2                                            |
| 23... | 1625 | 1.00                                        | 4700                                                         | 7.2                                                                  | 30.0                                            | 6.3                                            |
| 23... | 1626 | 5.00                                        | 5760                                                         | 7.1                                                                  | 30.0                                            | 6.2                                            |
| 23... | 1627 | 10.0                                        | 30900                                                        | 7.2                                                                  | 29.0                                            | 1.1                                            |
| 23... | 1628 | 15.0                                        | 35000                                                        | 7.3                                                                  | 29.0                                            | 0.4                                            |
| 23... | 1629 | 20.0                                        | 35100                                                        | 7.4                                                                  | 29.0                                            | 0.2                                            |
| 23... | 1630 | 25.0                                        | 35200                                                        | 7.4                                                                  | 29.0                                            | 0.1                                            |
| 23... | 1631 | 28.0                                        | 35300                                                        | 7.4                                                                  | 29.0                                            | 0.1                                            |

02479343 PASCAGOULA RIVER AT MILE 8 NEAR ESCATAWPA, MS

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L)<br>(00310) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML)<br>(31625) | STREP-<br>TOCOCCHI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML)<br>(31673) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | PHOS-<br>PHORUS<br>ORTHO<br>TOTAL<br>(MG/L<br>AS P)<br>(70507) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) |
|-------|------|---------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|
| AUG   |      |                                             |                                                              |                                                                      |                                                 |                                                |                                                                           |                                                                           |                                                                                |                                                                 |                                                                 |                                                                 |                                                                                |                                                       |                                                                |                                                          |
| 23... | 0716 | 1.00                                        | 6040                                                         | 7.4                                                                  | 28.0                                            | 6.4                                            |                                                                           |                                                                           |                                                                                |                                                                 |                                                                 |                                                                 |                                                                                |                                                       |                                                                |                                                          |
| 23... | 0717 | 5.00                                        | 17700                                                        | 7.2                                                                  | 29.0                                            | 5.2                                            |                                                                           |                                                                           |                                                                                |                                                                 |                                                                 |                                                                 |                                                                                |                                                       |                                                                |                                                          |
| 23... | 0718 | 10.0                                        | 33000                                                        | 7.5                                                                  | 29.0                                            | 2.4                                            |                                                                           |                                                                           |                                                                                |                                                                 |                                                                 |                                                                 |                                                                                |                                                       |                                                                |                                                          |
| 23... | 0719 | 15.0                                        | 34200                                                        | 7.6                                                                  | 29.0                                            | 1.4                                            |                                                                           |                                                                           |                                                                                |                                                                 |                                                                 |                                                                 |                                                                                |                                                       |                                                                |                                                          |
| 23... | 0720 | 20.0                                        | 34400                                                        | 7.5                                                                  | 29.0                                            | 0.7                                            |                                                                           |                                                                           |                                                                                |                                                                 |                                                                 |                                                                 |                                                                                |                                                       |                                                                |                                                          |
| 23... | 1616 | 1.00                                        | 6500                                                         | 7.1                                                                  | 30.0                                            | 6.3                                            |                                                                           |                                                                           |                                                                                |                                                                 |                                                                 |                                                                 |                                                                                |                                                       |                                                                |                                                          |
| 23... | 1617 | 5.00                                        | 10600                                                        | 7.1                                                                  | 29.5                                            | 4.7                                            |                                                                           |                                                                           |                                                                                |                                                                 |                                                                 |                                                                 |                                                                                |                                                       |                                                                |                                                          |
| 23... | 1618 | 10.0                                        | 32000                                                        | 7.2                                                                  | 29.0                                            | 1.7                                            |                                                                           |                                                                           |                                                                                |                                                                 |                                                                 |                                                                 |                                                                                |                                                       |                                                                |                                                          |
| 23... | 1619 | 15.0                                        | 33800                                                        | 7.4                                                                  | 29.0                                            | 0.4                                            |                                                                           |                                                                           |                                                                                |                                                                 |                                                                 |                                                                 |                                                                                |                                                       |                                                                |                                                          |
| 23... | 1620 | 18.0                                        | 34000                                                        | 7.4                                                                  | 29.0                                            | 0.3                                            |                                                                           |                                                                           |                                                                                |                                                                 |                                                                 |                                                                 |                                                                                |                                                       |                                                                |                                                          |
| 23... | 0715 | 1.0                                         | 200                                                          | 240                                                                  | <0.010                                          | 0.090                                          | 0.160                                                                     | <0.20                                                                     | 0.060                                                                          | 0.050                                                           | 20                                                              |                                                                 |                                                                                |                                                       |                                                                |                                                          |
| 23... | 1615 | --                                          | 140                                                          | 190                                                                  | <0.010                                          | 0.100                                          | 0.180                                                                     | 0.21                                                                      | 0.070                                                                          | 0.050                                                           | 18                                                              |                                                                 |                                                                                |                                                       |                                                                |                                                          |



WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES  
WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

PASCAGOULA RIVER BASIN--Continued

PASCAGOULA AND ESCATAWPA RIVERS STUDY--Continued

302526088333600 PASCAGOULA RIVER AT MILE 7

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-------|------|---------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| AUG   |      |                                             |                                                              |                                                                      |                                                 |                                                |
| 23... | 0710 | 1.00                                        | 9090                                                         | 7.3                                                                  | 28.5                                            | 6.0                                            |
| 23... | 0711 | 5.00                                        | 25400                                                        | 7.4                                                                  | 28.5                                            | 5.1                                            |
| 23... | 0712 | 10.0                                        | 33400                                                        | 7.7                                                                  | 29.0                                            | 3.4                                            |
| 23... | 0713 | 15.0                                        | 34900                                                        | 7.7                                                                  | 29.0                                            | 2.2                                            |
| 23... | 1610 | 1.00                                        | 8520                                                         | 7.1                                                                  | 30.0                                            | 6.1                                            |
| 23... | 1611 | 5.00                                        | 13200                                                        | 7.2                                                                  | 29.5                                            | 5.1                                            |
| 23... | 1612 | 10.0                                        | 29700                                                        | 7.3                                                                  | 29.5                                            | 1.7                                            |
| 23... | 1613 | 14.0                                        | 31900                                                        | 7.3                                                                  | 29.0                                            | 0.9                                            |

02480180 ESCATAWPA RIVER AT MILE 13 NEAR ORANGE GROVE, MS

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-------|------|---------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| AUG   |      |                                             |                                                              |                                                                      |                                                 |                                                |
| 23... | 1031 | 1.00                                        | 40                                                           | 6.5                                                                  | 27.0                                            | 6.8                                            |
| 23... | 1032 | 5.00                                        | 40                                                           | 6.3                                                                  | 27.0                                            | 6.3                                            |
| 23... | 1033 | 10.0                                        | 42                                                           | 6.2                                                                  | 27.0                                            | 6.2                                            |
| 23... | 1034 | 15.0                                        | 44                                                           | 6.1                                                                  | 27.0                                            | 6.2                                            |
| 23... | 1035 | 20.0                                        | 40                                                           | 6.0                                                                  | 27.0                                            | 6.2                                            |
| 23... | 1036 | 22.0                                        | 47                                                           | 6.6                                                                  | 27.0                                            | 6.2                                            |
| 23... | 1910 | 1.00                                        | --                                                           | --                                                                   | --                                              | --                                             |
| 23... | 1911 | 5.00                                        | 46                                                           | 6.1                                                                  | 27.5                                            | 6.3                                            |
| 23... | 1912 | 10.0                                        | 38                                                           | 5.8                                                                  | 27.5                                            | 6.2                                            |
| 23... | 1913 | 15.0                                        | 39                                                           | 5.8                                                                  | 27.5                                            | 6.2                                            |
| 23... | 1914 | 20.0                                        | 45                                                           | 5.8                                                                  | 27.5                                            | 6.1                                            |

| DATE | TIME | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML)<br>(31625) | STREP-<br>TOCOCCHI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML)<br>(31673) |
|------|------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------|
|------|------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------|

|       |      |     |     |
|-------|------|-----|-----|
| AUG   |      |     |     |
| 23... | 1030 | K62 | 87  |
| 23... | 1909 | K55 | 130 |

302715088270700 ESCATAWPA RIVER AT MILE 12

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-------|------|---------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| AUG   |      |                                             |                                                              |                                                                      |                                                 |                                                |
| 23... | 1022 | 1.00                                        | 388                                                          | 6.4                                                                  | 27.0                                            | 6.0                                            |
| 23... | 1023 | 5.00                                        | 755                                                          | 6.3                                                                  | 27.0                                            | 5.9                                            |
| 23... | 1024 | 10.0                                        | 2300                                                         | 6.3                                                                  | 27.0                                            | 5.4                                            |
| 23... | 1025 | 15.0                                        | 25300                                                        | 6.5                                                                  | 27.5                                            | 2.2                                            |
| 23... | 1905 | 1.00                                        | 650                                                          | 6.3                                                                  | 28.0                                            | 6.2                                            |
| 23... | 1906 | 5.00                                        | 684                                                          | 6.2                                                                  | 28.0                                            | 5.9                                            |
| 23... | 1907 | 10.0                                        | 1920                                                         | 6.2                                                                  | 27.5                                            | 5.5                                            |

302628088271000 ESCATAWPA RIVER AT MILE 11

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-------|------|---------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| AUG   |      |                                             |                                                              |                                                                      |                                                 |                                                |
| 23... | 1016 | 1.00                                        | 601                                                          | 6.4                                                                  | 27.0                                            | 6.0                                            |
| 23... | 1017 | 5.00                                        | 889                                                          | 6.3                                                                  | 27.0                                            | 5.8                                            |
| 23... | 1018 | 10.0                                        | 5770                                                         | 6.3                                                                  | 27.0                                            | 4.5                                            |
| 23... | 1019 | 15.0                                        | 28400                                                        | 6.6                                                                  | 27.5                                            | 0.1                                            |
| 23... | 1020 | 16.0                                        | 30000                                                        | 6.8                                                                  | 27.5                                            | 0.2                                            |
| 23... | 1900 | 1.00                                        | 852                                                          | 6.5                                                                  | 27.5                                            | 6.0                                            |
| 23... | 1901 | 5.00                                        | 1160                                                         | 6.4                                                                  | 27.5                                            | 5.8                                            |
| 23... | 1902 | 10.0                                        | 2760                                                         | 6.3                                                                  | 27.5                                            | 5.4                                            |
| 23... | 1903 | 14.0                                        | 19400                                                        | 6.5                                                                  | 27.5                                            | 1.5                                            |

## WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## PASCAGOULA RIVER BASIN--Continued

## PASCAGOULA AND ESCATAWPA RIVERS STUDY--Continued

## 02480181 ESCATAWPA RIVER NEAR ORANGE GROVE, MS

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-------|------|---------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| AUG   |      |                                             |                                                              |                                                                      |                                                 |                                                |
| 23... | 1010 | 1.00                                        | 920                                                          | 6.6                                                                  | 27.0                                            | 6.2                                            |
| 23... | 1011 | 5.00                                        | 1330                                                         | 6.5                                                                  | 27.0                                            | 5.9                                            |
| 23... | 1012 | 10.0                                        | 25400                                                        | 6.6                                                                  | 27.5                                            | 3.6                                            |
| 23... | 1013 | 15.0                                        | 30000                                                        | 6.8                                                                  | 27.5                                            | 0.5                                            |
| 23... | 1014 | 18.0                                        | 30400                                                        | 6.8                                                                  | 27.5                                            | 0.3                                            |
| 23... | 1855 | 1.00                                        | 1610                                                         | 6.4                                                                  | 27.5                                            | 6.2                                            |
| 23... | 1856 | 5.00                                        | 2100                                                         | 6.3                                                                  | 27.5                                            | 5.8                                            |
| 23... | 1857 | 10.0                                        | 2430                                                         | 6.3                                                                  | 27.5                                            | 5.6                                            |
| 23... | 1858 | 15.0                                        | 22700                                                        | 6.5                                                                  | 27.5                                            | 1.0                                            |

## 02480182 ESCATAWPA RIVER AT MILE 10 NEAR MOSS POINT, MS

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-------|------|---------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| AUG   |      |                                             |                                                              |                                                                      |                                                 |                                                |
| 23... | 1005 | 1.00                                        | 1770                                                         | 6.7                                                                  | 27.0                                            | 6.1                                            |
| 23... | 1006 | 5.00                                        | 2340                                                         | 6.6                                                                  | 27.0                                            | 5.7                                            |
| 23... | 1007 | 10.0                                        | 26000                                                        | 6.7                                                                  | 27.5                                            | 2.3                                            |
| 23... | 1008 | 15.0                                        | 30500                                                        | 6.9                                                                  | 28.0                                            | 0.4                                            |
| 23... | 1850 | 1.00                                        | 1970                                                         | 6.6                                                                  | 28.0                                            | 6.4                                            |
| 23... | 1851 | 5.00                                        | 2210                                                         | 6.5                                                                  | 28.0                                            | 5.7                                            |
| 23... | 1852 | 10.0                                        | 3280                                                         | 6.5                                                                  | 28.0                                            | 5.5                                            |
| 23... | 1853 | 14.0                                        | 28200                                                        | 6.7                                                                  | 27.5                                            | 0.5                                            |

## 02480183 ESCATAWPA RIVER AT MILE 9 NEAR MOSS POINT, MS

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-------|------|---------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| AUG   |      |                                             |                                                              |                                                                      |                                                 |                                                |
| 23... | 1000 | 1.00                                        | 2600                                                         | 6.8                                                                  | 27.5                                            | 5.8                                            |
| 23... | 1001 | 5.00                                        | 3900                                                         | 6.7                                                                  | 27.5                                            | 5.4                                            |
| 23... | 1002 | 10.0                                        | 26000                                                        | 6.8                                                                  | 27.5                                            | 3.0                                            |
| 23... | 1003 | 13.0                                        | 30200                                                        | 7.0                                                                  | 28.0                                            | 0.5                                            |
| 23... | 1845 | 1.00                                        | 3460                                                         | 6.9                                                                  | 28.0                                            | 5.8                                            |
| 23... | 1846 | 5.00                                        | 3920                                                         | 6.6                                                                  | 28.0                                            | 5.2                                            |
| 23... | 1847 | 10.0                                        | 5400                                                         | 6.6                                                                  | 29.0                                            | 5.1                                            |
| 23... | 1848 | 15.0                                        | 18900                                                        | 6.8                                                                  | 28.0                                            | 2.6                                            |
| 23... | 1849 | 18.0                                        | 30200                                                        | 6.9                                                                  | 29.0                                            | 0.3                                            |

## 02480184 ESCATAWPA RIVER AT MILE 8 NEAR MOSS POINT, MS

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-------|------|---------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| AUG   |      |                                             |                                                              |                                                                      |                                                 |                                                |
| 23... | 0947 | 1.00                                        | 4290                                                         | 7.0                                                                  | 27.5                                            | 5.6                                            |
| 23... | 0948 | 5.00                                        | 4600                                                         | 6.8                                                                  | 27.5                                            | 5.4                                            |
| 23... | 0949 | 10.0                                        | 23200                                                        | 6.9                                                                  | 28.0                                            | 3.1                                            |
| 23... | 0950 | 15.0                                        | 32000                                                        | 7.1                                                                  | 28.5                                            | 0.8                                            |
| 23... | 0951 | 20.0                                        | 33100                                                        | 7.2                                                                  | 28.0                                            | 0.2                                            |
| 23... | 0952 | 25.0                                        | 34400                                                        | 7.3                                                                  | 28.0                                            | 0.1                                            |
| 23... | 0953 | 30.0                                        | 35500                                                        | 7.3                                                                  | 28.0                                            | 0.1                                            |
| 23... | 0954 | 35.0                                        | 36400                                                        | 7.4                                                                  | 28.0                                            | 0.1                                            |
| 23... | 0955 | 40.0                                        | 36700                                                        | 7.4                                                                  | 28.0                                            | 0.1                                            |
| 23... | 0956 | 45.0                                        | 36700                                                        | 7.4                                                                  | 28.0                                            | 0.1                                            |
| 23... | 0957 | 50.0                                        | 36800                                                        | 7.4                                                                  | 28.0                                            | 0.1                                            |
| 23... | 0958 | 52.0                                        | 37000                                                        | 7.4                                                                  | 28.0                                            | 0.1                                            |
| 23... | 1835 | 1.00                                        | 6400                                                         | 6.8                                                                  | 28.0                                            | 5.8                                            |
| 23... | 1836 | 5.00                                        | 6730                                                         | 6.7                                                                  | 28.0                                            | 4.9                                            |
| 23... | 1837 | 10.0                                        | 7480                                                         | 6.5                                                                  | 28.0                                            | 4.4                                            |
| 23... | 1838 | 15.0                                        | 25500                                                        | 6.8                                                                  | 28.0                                            | 1.5                                            |
| 23... | 1839 | 20.0                                        | 32800                                                        | 7.0                                                                  | 28.0                                            | 0.3                                            |
| 23... | 1840 | 25.0                                        | 34500                                                        | 7.2                                                                  | 28.0                                            | 0.1                                            |
| 23... | 1841 | 30.0                                        | 35300                                                        | 7.3                                                                  | 28.0                                            | 0.1                                            |

WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES  
WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

PASCAGOULA RIVER BASIN--Continued

PASCAGOULA AND ESCATAWPA RIVERS STUDY--Continued

302541088290100 ESCATAWPA RIVER AT MILE 7

|       |  |                                                                           |                                                                 | PH                                                              |                                                                 |                                                                                |                                                       |                                                                |                                                          |    |
|-------|--|---------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|----|
|       |  | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003)                               | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095)    | WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400)  | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010)                 | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300)                                 |                                                       |                                                                |                                                          |    |
| AUG   |  |                                                                           |                                                                 |                                                                 |                                                                 |                                                                                |                                                       |                                                                |                                                          |    |
| 23... |  | 0939                                                                      | 1.00                                                            | 5930                                                            | 6.9                                                             | 27.5                                                                           | 5.6                                                   |                                                                |                                                          |    |
| 23... |  | 0940                                                                      | 5.00                                                            | 14700                                                           | 6.9                                                             | 28.0                                                                           | 3.9                                                   |                                                                |                                                          |    |
| 23... |  | 0941                                                                      | 10.0                                                            | 31000                                                           | 7.2                                                             | 28.5                                                                           | 1.4                                                   |                                                                |                                                          |    |
| 23... |  | 0942                                                                      | 15.0                                                            | 34600                                                           | 7.3                                                             | 28.5                                                                           | 0.2                                                   |                                                                |                                                          |    |
| 23... |  | 0943                                                                      | 20.0                                                            | 35900                                                           | 7.3                                                             | 28.5                                                                           | 0.1                                                   |                                                                |                                                          |    |
| 23... |  | 0944                                                                      | 25.0                                                            | 34600                                                           | 7.4                                                             | 28.5                                                                           | 0.1                                                   |                                                                |                                                          |    |
| 23... |  | 0945                                                                      | 30.0                                                            | 36000                                                           | 7.4                                                             | 28.5                                                                           | 0.1                                                   |                                                                |                                                          |    |
| 23... |  | 1826                                                                      | 1.00                                                            | 8080                                                            | 6.8                                                             | 28.0                                                                           | 5.0                                                   |                                                                |                                                          |    |
| 23... |  | 1827                                                                      | 5.00                                                            | 8170                                                            | 6.7                                                             | 28.0                                                                           | 4.7                                                   |                                                                |                                                          |    |
| 23... |  | 1828                                                                      | 10.0                                                            | 10000                                                           | 6.7                                                             | 28.0                                                                           | 4.1                                                   |                                                                |                                                          |    |
| 23... |  | 1829                                                                      | 15.0                                                            | 26200                                                           | 6.9                                                             | 28.0                                                                           | 1.3                                                   |                                                                |                                                          |    |
| 23... |  | 1830                                                                      | 20.0                                                            | 30500                                                           | 7.1                                                             | 28.0                                                                           | 0.4                                                   |                                                                |                                                          |    |
| 23... |  | 1831                                                                      | 25.0                                                            | 31000                                                           | 7.2                                                             | 28.0                                                                           | 0.2                                                   |                                                                |                                                          |    |
|       |  | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L)<br>(00310) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L)<br>AS N<br>(00615) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L)<br>AS N<br>(00630) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L)<br>AS N<br>(00610) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L)<br>AS N<br>(00625) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L)<br>AS P<br>(00665) | PHOS-<br>PHORUS<br>ORTHO<br>TOTAL<br>(MG/L)<br>AS P<br>(70507) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L)<br>AS C<br>(00680) |    |
| AUG   |  |                                                                           |                                                                 |                                                                 |                                                                 |                                                                                |                                                       |                                                                |                                                          |    |
| 23... |  | 0938                                                                      | 0.6                                                             | <0.010                                                          | 0.090                                                           | 0.230                                                                          | 0.24                                                  | 0.050                                                          | 0.040                                                    | 18 |
| 23... |  | 1825                                                                      | --                                                              | <0.010                                                          | 0.140                                                           | 0.120                                                                          | 0.26                                                  | <0.020                                                         | 0.010                                                    | 13 |

302512088292200 ESCATAWPA RIVER AT MILE 6

| DATE  | TIME | SAMPLING<br>DEPTH<br>(FEET)<br>(00003) | SPECIFIC<br>CONDUCTANCE<br>(US/CM)<br>(00095) | PH                                                        | TEMPERATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-------|------|----------------------------------------|-----------------------------------------------|-----------------------------------------------------------|--------------------------------------------|------------------------------------------------|
|       |      |                                        |                                               | WATER<br>WHOLE<br>FIELD<br>(STANDARD<br>UNITS)<br>(00400) |                                            |                                                |
| AUG   |      |                                        |                                               |                                                           |                                            |                                                |
| 23... | 0930 | 1.00                                   | 8000                                          | 7.1                                                       | 27.5                                       | 6.2                                            |
| 23... | 0931 | 5.00                                   | 19400                                         | 7.0                                                       | 28.0                                       | 4.5                                            |
| 23... | 0932 | 10.0                                   | 30900                                         | 7.3                                                       | 28.5                                       | 0.6                                            |
| 23... | 0933 | 15.0                                   | 33400                                         | 7.3                                                       | 28.5                                       | 0.3                                            |
| 23... | 0934 | 20.0                                   | 35300                                         | 7.4                                                       | 28.5                                       | 0.1                                            |
| 23... | 0935 | 25.0                                   | 35100                                         | 7.4                                                       | 28.5                                       | 0.1                                            |
| 23... | 0936 | 28.0                                   | 36000                                         | 7.4                                                       | 28.5                                       | 0.1                                            |
| 23... | 1820 | 1.00                                   | 9750                                          | 6.9                                                       | 28.5                                       | 5.1                                            |
| 23... | 1821 | 5.00                                   | 11600                                         | 6.9                                                       | 28.5                                       | 4.4                                            |
| 23... | 1822 | 10.0                                   | 13200                                         | 6.9                                                       | 28.5                                       | 3.7                                            |
| 23... | 1823 | 15.0                                   | 31900                                         | 7.1                                                       | 28.5                                       | 0.8                                            |

302515088301300 ESCATAWPA RIVER AT MILE 5

|       |      |                                                                           |                                                                 | PH                                                              |                                                                 |                                                                                |                                                       |                                                                |                                                          |
|-------|------|---------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|
|       |      | SPE-<br>CIFIC                                                             |                                                                 | WATER<br>WHOLE                                                  |                                                                 |                                                                                |                                                       |                                                                |                                                          |
|       |      | CON-<br>DUCT-<br>ANCE                                                     |                                                                 | FIELD                                                           |                                                                 | TEMPER-<br>ATURE                                                               |                                                       | OXYGEN,<br>DIS-<br>SOLVED                                      |                                                          |
|       |      | (US/CM)                                                                   |                                                                 | (STAND-<br>ARD                                                  |                                                                 | WATER                                                                          |                                                       | (MG/L)                                                         |                                                          |
| DATE  | TIME | DEPTH<br>(FEET)<br>(00003)                                                | (00095)                                                         | UNITS)<br>(00400)                                               | (00010)                                                         | (DEG C)<br>(00300)                                                             |                                                       |                                                                |                                                          |
| AUG   |      |                                                                           |                                                                 |                                                                 |                                                                 |                                                                                |                                                       |                                                                |                                                          |
| 23... | 0923 | 1.00                                                                      | 8800                                                            | 7.1                                                             | 27.5                                                            | 5.7                                                                            |                                                       |                                                                |                                                          |
| 23... | 0924 | 5.00                                                                      | 19100                                                           | 7.1                                                             | 28.5                                                            | 3.6                                                                            |                                                       |                                                                |                                                          |
| 23... | 0925 | 10.0                                                                      | 31300                                                           | 7.3                                                             | 28.5                                                            | 1.2                                                                            |                                                       |                                                                |                                                          |
| 23... | 0926 | 15.0                                                                      | 35000                                                           | 7.4                                                             | 29.0                                                            | 0.2                                                                            |                                                       |                                                                |                                                          |
| 23... | 0927 | 18.0                                                                      | 36100                                                           | 7.4                                                             | 28.5                                                            | 0.1                                                                            |                                                       |                                                                |                                                          |
| 23... | 1811 | 1.00                                                                      | 12000                                                           | 7.1                                                             | 28.5                                                            | 5.1                                                                            |                                                       |                                                                |                                                          |
| 23... | 1812 | 5.00                                                                      | 12900                                                           | 7.0                                                             | 28.5                                                            | 4.4                                                                            |                                                       |                                                                |                                                          |
| 23... | 1813 | 10.0                                                                      | 17400                                                           | 7.0                                                             | 28.5                                                            | 3.3                                                                            |                                                       |                                                                |                                                          |
| 23... | 1814 | 15.0                                                                      | 31000                                                           | 7.2                                                             | 28.5                                                            | 0.5                                                                            |                                                       |                                                                |                                                          |
|       |      | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L)<br>(00310) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L)<br>AS N<br>(00615) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L)<br>AS N<br>(00630) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L)<br>AS N<br>(00610) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L)<br>AS N<br>(00625) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L)<br>AS P<br>(00665) | PHOS-<br>PHORUS<br>ORTHO<br>TOTAL<br>(MG/L)<br>AS P<br>(70507) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L)<br>AS C<br>(00680) |
| AUG   |      |                                                                           |                                                                 |                                                                 |                                                                 |                                                                                |                                                       |                                                                |                                                          |
| 23... | 0922 | 0.7                                                                       | <0.010                                                          | 0.100                                                           | 0.180                                                           | <0.20                                                                          | 0.040                                                 | 0.040                                                          | 18                                                       |
| 23... | 1810 | --                                                                        | <0.010                                                          | 0.130                                                           | 0.130                                                           | <0.20                                                                          | <0.020                                                | 0.020                                                          | 15                                                       |

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## PASCAGOULA RIVER BASIN--Continued

## PASCAGOULA AND ESCATAWPA RIVERS STUDY--Continued

## 302528088304400 ESCATAWPA RIVER AT MILE 4

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-------|------|---------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| AUG   |      |                                             |                                                              |                                                                      |                                                 |                                                |
| 23... | 0915 | 1.00                                        | 10400                                                        | 7.1                                                                  | 27.5                                            | 5.2                                            |
| 23... | 0916 | 5.00                                        | 21200                                                        | 7.2                                                                  | 28.0                                            | 3.0                                            |
| 23... | 0917 | 10.0                                        | 32000                                                        | 7.4                                                                  | 29.0                                            | 0.9                                            |
| 23... | 0918 | 15.0                                        | 35300                                                        | 7.4                                                                  | 29.0                                            | 0.4                                            |
| 23... | 0919 | 20.0                                        | 34800                                                        | 7.5                                                                  | 28.5                                            | 0.1                                            |
| 23... | 0920 | 25.0                                        | 36300                                                        | 7.5                                                                  | 28.5                                            | 0.1                                            |
| 23... | 1800 | 1.00                                        | 11600                                                        | 7.2                                                                  | 29.0                                            | 5.6                                            |
| 23... | 1801 | 5.00                                        | 13600                                                        | 7.0                                                                  | 29.0                                            | 4.7                                            |
| 23... | 1802 | 10.0                                        | 27600                                                        | 7.1                                                                  | 28.5                                            | 1.7                                            |
| 23... | 1803 | 15.0                                        | 33300                                                        | 7.3                                                                  | 28.5                                            | 0.8                                            |
| 23... | 1804 | 20.0                                        | 34000                                                        | 7.4                                                                  | 28.5                                            | 0.5                                            |

## 302455088313100 ESCATAWPA RIVER AT MILE 3

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-------|------|---------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| AUG   |      |                                             |                                                              |                                                                      |                                                 |                                                |
| 23... | 0908 | 1.00                                        | 18200                                                        | 7.1                                                                  | 28.5                                            | 4.4                                            |
| 23... | 0909 | 5.00                                        | 18600                                                        | 7.2                                                                  | 28.5                                            | 2.6                                            |
| 23... | 0910 | 10.0                                        | 33300                                                        | 7.4                                                                  | 29.0                                            | 0.4                                            |
| 23... | 0911 | 15.0                                        | 37000                                                        | 7.5                                                                  | 29.0                                            | 0.1                                            |
| 23... | 0912 | 19.0                                        | 37900                                                        | 7.5                                                                  | 29.0                                            | 0.1                                            |
| 23... | 1751 | 1.00                                        | 14500                                                        | 7.1                                                                  | 29.5                                            | 4.3                                            |
| 23... | 1752 | 5.00                                        | 15900                                                        | 7.0                                                                  | 29.0                                            | 3.5                                            |
| 23... | 1753 | 10.0                                        | 23000                                                        | 7.1                                                                  | 29.0                                            | 1.4                                            |
| 23... | 1754 | 15.0                                        | 31300                                                        | 7.2                                                                  | 28.5                                            | 0.2                                            |

| DATE  | TIME | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L)<br>(00310) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L)<br>AS N)<br>(00615) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L)<br>AS N)<br>(00630) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L)<br>AS N)<br>(00610) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L)<br>AS N)<br>(00625) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L)<br>AS P)<br>(00665) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L)<br>AS P)<br>(70507) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L)<br>AS C)<br>(00680) |
|-------|------|---------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------|
| AUG   |      |                                                                           |                                                                  |                                                                  |                                                                  |                                                                                |                                                        |                                                        |                                                           |
| 23... | 0907 | 1.0                                                                       | <0.010                                                           | 0.080                                                            | 0.240                                                            | <0.20                                                                          | 0.070                                                  | 0.060                                                  | 23                                                        |
| 23... | 1750 | --                                                                        | <0.010                                                           | 0.100                                                            | 0.190                                                            | <0.20                                                                          | 0.040                                                  | 0.040                                                  | 19                                                        |

## 302459088320800 ESCATAWPA RIVER AT MILE 2

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-------|------|---------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| AUG   |      |                                             |                                                              |                                                                      |                                                 |                                                |
| 23... | 0900 | 1.00                                        | 14600                                                        | 7.3                                                                  | 28.0                                            | 5.6                                            |
| 23... | 0901 | 5.00                                        | 24700                                                        | 7.2                                                                  | 28.5                                            | 3.3                                            |
| 23... | 0902 | 10.0                                        | 31900                                                        | 7.4                                                                  | 29.0                                            | 1.1                                            |
| 23... | 0903 | 15.0                                        | 35400                                                        | 7.5                                                                  | 29.0                                            | 0.5                                            |
| 23... | 0904 | 19.0                                        | 38000                                                        | 7.5                                                                  | 29.0                                            | 0.2                                            |
| 23... | 1744 | 1.00                                        | 14300                                                        | 7.5                                                                  | 31.5                                            | 6.9                                            |
| 23... | 1745 | 5.00                                        | 16200                                                        | 7.2                                                                  | 30.5                                            | 4.5                                            |
| 23... | 1746 | 10.0                                        | 26300                                                        | 7.2                                                                  | 29.0                                            | 1.5                                            |
| 23... | 1747 | 15.0                                        | 33500                                                        | 7.4                                                                  | 29.0                                            | 0.3                                            |
| 23... | 1748 | 18.0                                        | 35000                                                        | 7.5                                                                  | 29.0                                            | 0.1                                            |

WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES  
WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
PASCAGOULA RIVER BASIN--Continued  
PASCAGOULA AND ESCATAWPA RIVERS STUDY--Continued  
02480207 ESCATAWPA RIVER AT MOSS POINT, MS

| ESCANTARA RIVER AT HOSKINS COUNTY, MS |       |       |                                                 |                                                     |                                            |                                         |                                                    |                                               |                                                 |                                                     |                                                |
|---------------------------------------|-------|-------|-------------------------------------------------|-----------------------------------------------------|--------------------------------------------|-----------------------------------------|----------------------------------------------------|-----------------------------------------------|-------------------------------------------------|-----------------------------------------------------|------------------------------------------------|
|                                       |       |       |                                                 |                                                     | SAM-PLING DEPTH (FEET)                     | SPE-CIFIC CON-DUCT-ANCE (US/CM)         | WATER WHOLE FIELD (STAND-ARD UNITS)                | TEMPER-ATURE (DEG C)                          | OXYGEN, DIS-SOLVED (MG/L)                       |                                                     |                                                |
|                                       | DATE  | TIME  |                                                 |                                                     | (00003)                                    | (00095)                                 | (00400)                                            | (00010)                                       | (00300)                                         |                                                     |                                                |
|                                       | AUG   |       |                                                 |                                                     |                                            |                                         |                                                    |                                               |                                                 |                                                     |                                                |
|                                       | 23... | 0854  | 1.00                                            |                                                     | 13600                                      |                                         | 7.3                                                | 28.0                                          | 5.7                                             |                                                     |                                                |
|                                       | 23... | 0855  | 5.00                                            |                                                     | 23700                                      |                                         | 7.3                                                | 29.0                                          | 3.6                                             |                                                     |                                                |
|                                       | 23... | 0856  | 10.0                                            |                                                     | 28300                                      |                                         | 7.5                                                | 29.0                                          | 2.2                                             |                                                     |                                                |
|                                       | 23... | 0857  | 15.0                                            |                                                     | 34000                                      |                                         | 7.6                                                | 29.0                                          | 1.2                                             |                                                     |                                                |
|                                       | 23... | 0858  | 20.0                                            |                                                     | 34900                                      |                                         | 7.6                                                | 29.0                                          | 0.5                                             |                                                     |                                                |
|                                       | 23... | 1739  | 1.00                                            |                                                     | 14200                                      |                                         | 7.6                                                | 31.5                                          | 8.7                                             |                                                     |                                                |
|                                       | 23... | 1740  | 5.00                                            |                                                     | 16500                                      |                                         | 7.2                                                | 30.0                                          | 4.8                                             |                                                     |                                                |
|                                       | 23... | 1741  | 10.0                                            |                                                     | 26800                                      |                                         | 7.2                                                | 29.0                                          | 1.5                                             |                                                     |                                                |
|                                       | 23... | 1742  | 15.0                                            |                                                     | 33900                                      |                                         | 7.5                                                | 29.0                                          | 0.1                                             |                                                     |                                                |
|                                       |       |       | OXYGEN DEMAND, BIO-CHEMICAL, 5 DAY (MG/L)       | COLI-FORM, FECAL, UM-MF (COLS./100 ML)              | STREP-TOCOCCI, FECAL, KF AGAR (COLS.)      | NITRO-GEN, NITRITE TOTAL (MG/L AS N)    | NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)               | NITRO-GEN, AMMONIA TOTAL (MG/L AS N)          | NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) | PHOS-PHORUS ORTHO TOTAL (MG/L AS P)                 | PHOS-PHORUS CARBON, ORGANIC TOTAL (MG/L AS C)  |
|                                       | DATE  | TIME  | (00310)                                         | (31625)                                             | (31673)                                    | (00615)                                 | (00630)                                            | (00610)                                       | (00625)                                         | (00665)                                             | (70507) (00680)                                |
| AUG                                   | 23... | 0853  | 1.0                                             | 96                                                  | 83                                         | <0.010                                  | 0.070                                              | 0.160                                         | 0.27                                            | 0.100                                               | 0.060                                          |
|                                       | 23... | 1738  | --                                              | K45                                                 | K57                                        | <0.010                                  | 0.090                                              | 0.110                                         | 0.50                                            | 0.040                                               | 0.030                                          |
|                                       |       |       | TUR-BID-ITY (NTU)                               | CALCIUM DIS-SOLVED (MG/L)                           | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)        | SODIUM, DIS-SOLVED (MG/L AS NA)         | POTAS-SIUM, DIS-SOLVED (MG/L AS K)                 | SULFATE DIS-SOLVED (MG/L AS SO4)              | CHLO-RIDE, DIS-SOLVED (MG/L AS CL)              | FLUO-RIDE, DIS-SOLVED (MG/L AS F)                   | SOLIDS, RESIDUE AT 180 DEG. C SOLVED (MG/L)    |
|                                       | DATE  | TIME  | (00076)                                         | (00915)                                             | (00925)                                    | (00930)                                 | (00935)                                            | (00945)                                       | (00940)                                         | (00950)                                             | RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) |
| AUG                                   | 23... | 1738  | 2.7                                             | 100                                                 | 380                                        | 3100                                    | 110                                                | 750                                           | 5400                                            | 0.20                                                | 10200                                          |
|                                       |       |       | BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS AS)     | CADMIUM WATER UNFLTDR (UG/L AS BE)                  | CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) | COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) | LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)              | MERCURY, TOTAL RECOV-ERABLE (UG/L AS HG)      | NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)         | SELE-NIUM, TOTAL (UG/L AS SE)                       | ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)          |
|                                       | DATE  |       | (01002)                                         | (01012)                                             | (01027)                                    | (01034)                                 | (01042)                                            | (01051)                                       | (71900)                                         | (01067)                                             | (01147) (01092)                                |
| AUG                                   | 23... | 1     | 0.5                                             | <1                                                  | <1                                         | 3                                       | 3                                                  | 0.10                                          | 1                                               | <1                                                  | 10                                             |
|                                       |       |       | ACE-NAPHTH-ENE TOTAL (UG/L)                     | ACE-NAPHTH-YLENE TOTAL (UG/L)                       | ANTHRA-CENE TOTAL (UG/L)                   | BENZI-DINE TOTAL (UG/L)                 | BENZO A ANTHRAC-ENE1,2-BENZANTHRACENE TOTAL (UG/L) | BENZO B FLUOR-AN-THENE TOTAL (UG/L)           | BENZO K FLUOR-AN-THENE TOTAL (UG/L)             | BENZOGH I PERYL-ENE1,12-BENZOP-ERYLENE TOTAL (UG/L) | 4-BROMO-PHENYL ETHER TOTAL (UG/L)              |
|                                       | DATE  |       | (34205)                                         | (34200)                                             | (34220)                                    | (39120)                                 | (34526)                                            | (34230)                                       | (34242)                                         | (34521)                                             | (34247) (34636)                                |
| AUG                                   | 23... | <5.00 | <5.00                                           | <5.00                                               | <40.0                                      | <10.0                                   | <10.0                                              | <10.0                                         | <10.0                                           | <10.0                                               | <5.00                                          |
|                                       |       |       | BIS 2-CHLORO-ETHYL ETHER UNFLTDR RECOVER (UG/L) | BIS (2-CHLORO-ISO-CHLORO-PROPYL) ETHER TOTAL (UG/L) | 2-CHLORO-NAPH-THALENE TOTAL (UG/L)         | 4-CHLORO-PHENYL ETHER TOTAL (UG/L)      | 1,2,5,6-DIBENZ-ANTHRA-CENE CHRY-SENE TOTAL (UG/L)  | BENZENE O-DI-CHLORO-WATER UNFLTDR REC (UG/L)  | BENZENE 1,3-DI-CHLORO-WATER UNFLTDR REC (UG/L)  | BENZENE 1,4-DI-CHLORO-WATER UNFLTDR REC (UG/L)      | 3,3'-DI-CHLORO-BENZI-DINE TOTAL (UG/L)         |
|                                       | DATE  |       | (34273)                                         | (34283)                                             | (34581)                                    | (34641)                                 | (34320)                                            | (34556)                                       | (34536)                                         | (34566)                                             | (34571) (34631)                                |
| AUG                                   | 23... | <5.00 | <5.00                                           | <5.00                                               | <5.00                                      | <10.0                                   | <10.0                                              | <5.00                                         | <5.00                                           | <5.00                                               | <20.0                                          |
|                                       |       |       | DI-N-BUTYL PHTHAL-ATE TOTAL (UG/L)              | 2,4-DI-NITRO-TOLUENE TOTAL (UG/L)                   | 2,6-DI-NITRO-TOLUENE TOTAL (UG/L)          | DI-N-OCTYL PHTHAL-ATE TOTAL (UG/L)      | BIS(2-ETHYL-HEXYL) PHTHAL-ATE TOTAL (UG/L)         | 1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (UG/L) | FLUOR-ANTHENE TOTAL (UG/L)                      | FLUOR-ENE TOTAL (UG/L)                              | HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L)            |
|                                       | DATE  |       | (39110)                                         | (34611)                                             | (34626)                                    | (34596)                                 | (39100)                                            | (82626)                                       | (34376)                                         | (34381)                                             | (39700) (39702)                                |
| AUG                                   | 23... | <5.00 | <5.00                                           | <5.00                                               | <10.0                                      | 22.0                                    | <5.00                                              | <5.00                                         | <5.00                                           | <5.00                                               | <5.00                                          |
|                                       |       |       | DI-N-BUTYL PHTHAL-ATE TOTAL (UG/L)              | 2,4-DI-NITRO-TOLUENE TOTAL (UG/L)                   | 2,6-DI-NITRO-TOLUENE TOTAL (UG/L)          | DI-N-OCTYL PHTHAL-ATE TOTAL (UG/L)      | BIS(2-ETHYL-HEXYL) PHTHAL-ATE TOTAL (UG/L)         | 1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (UG/L) | FLUOR-ANTHENE TOTAL (UG/L)                      | FLUOR-ENE TOTAL (UG/L)                              | HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L)            |
|                                       | DATE  |       | (39110)                                         | (34611)                                             | (34626)                                    | (34596)                                 | (39100)                                            | (82626)                                       | (34376)                                         | (34381)                                             | (39700) (39702)                                |
| AUG                                   | 23... | <5.00 | <5.00                                           | <5.00                                               | <10.0                                      | 22.0                                    | <5.00                                              | <5.00                                         | <5.00                                           | <5.00                                               | <5.00                                          |
|                                       |       |       | DI-N-BUTYL PHTHAL-ATE TOTAL (UG/L)              | 2,4-DI-NITRO-TOLUENE TOTAL (UG/L)                   | 2,6-DI-NITRO-TOLUENE TOTAL (UG/L)          | DI-N-OCTYL PHTHAL-ATE TOTAL (UG/L)      | BIS(2-ETHYL-HEXYL) PHTHAL-ATE TOTAL (UG/L)         | 1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (UG/L) | FLUOR-ANTHENE TOTAL (UG/L)                      | FLUOR-ENE TOTAL (UG/L)                              | HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L)            |
|                                       | DATE  |       | (39110)                                         | (34611)                                             | (34626)                                    | (34596)                                 | (39100)                                            | (82626)                                       | (34376)                                         | (34381)                                             | (39700) (39702)                                |
| AUG                                   | 23... | <5.00 | <5.00                                           | <5.00                                               | <10.0                                      | 22.0                                    | <5.00                                              | <5.00                                         | <5.00                                           | <5.00                                               | <5.00                                          |
|                                       |       |       | DI-N-BUTYL PHTHAL-ATE TOTAL (UG/L)              | 2,4-DI-NITRO-TOLUENE TOTAL (UG/L)                   | 2,6-DI-NITRO-TOLUENE TOTAL (UG/L)          | DI-N-OCTYL PHTHAL-ATE TOTAL (UG/L)      | BIS(2-ETHYL-HEXYL) PHTHAL-ATE TOTAL (UG/L)         | 1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (UG/L) | FLUOR-ANTHENE TOTAL (UG/L)                      | FLUOR-ENE TOTAL (UG/L)                              | HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L)            |
|                                       | DATE  |       | (39110)                                         | (34611)                                             | (34626)                                    | (34596)                                 | (39100)                                            | (82626)                                       | (34376)                                         | (34381)                                             | (39700) (39702)                                |

## WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## PASCAGOULA RIVER BASIN--Continued

## PASCAGOULA AND ESCATAWPA RIVERS STUDY--Continued

## 02480207 ESCATAWPA RIVER AT MOSS POINT, MS--Continued

| DATE         | ETHANE<br>HEXA-<br>CHLORO-<br>WATER<br>UNPLTRD<br>RECOVER<br>(UG/L)<br>(34396) | INDENO<br>(1,2,3-<br>CD)<br>PYRENE<br>TOTAL<br>(UG/L)<br>(34403) | ISO-<br>PHORONE<br>TOTAL<br>(UG/L)<br>(34408)              | NAPHTH-<br>ALENE<br>TOTAL<br>(UG/L)<br>(34696)                     | BENZENE<br>NITRO-<br>WATER<br>UNPLTRD<br>RECOVER<br>(UG/L)<br>(34447) | N-NITRO<br>-SODI-<br>METHY-<br>LAMINE<br>TOTAL<br>(UG/L)<br>(34438) | N-NITRO<br>-SODI-<br>PHENY-<br>LAMINE<br>TOTAL<br>(UG/L)<br>(34433) | N-<br>NITRO-<br>SODI-N-<br>PROPYL-<br>AMINE<br>TOTAL<br>(UG/L)<br>(34428) | PHENAN-<br>THRENE<br>TOTAL<br>(UG/L)<br>(34461)           | PYRENE<br>TOTAL<br>(UG/L)<br>(34469)                  | BENZENE<br>1,2,4-<br>TRI-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(34551) |
|--------------|--------------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------------------|
| AUG<br>23... | <5.00                                                                          | <10.0                                                            | <5.00                                                      | <5.00                                                              | <5.00                                                                 | <5.00                                                               | <5.00                                                               | <5.00                                                                     | <5.00                                                     | <5.00                                                 | <5.00                                                                       |
| DATE         | 2-<br>CHLORO-<br>PHENOL<br>TOTAL<br>(UG/L)<br>(34586)                          | 2,4-DI-<br>CHLORO-<br>PHENOL<br>TOTAL<br>(UG/L)<br>(34601)       | 2,4-DI-<br>METHYL-<br>PHENOL<br>TOTAL<br>(UG/L)<br>(34606) | 4,6-<br>DINITRO<br>-ORTHO-<br>CRESOL<br>TOTAL<br>(UG/L)<br>(34657) | 2,4,-<br>DI-<br>NITRO-<br>PHENOL<br>TOTAL<br>(UG/L)<br>(34616)        | 2-<br>NITRO-<br>PHENOL<br>TOTAL<br>(UG/L)<br>(34591)                | 4-<br>NITRO-<br>PHENOL<br>TOTAL<br>(UG/L)<br>(34646)                | PARA-<br>CHLORO-<br>META<br>CRESOL<br>TOTAL<br>(UG/L)<br>(34452)          | PENTA-<br>CHLORO-<br>PHENOL<br>TOTAL<br>(UG/L)<br>(39032) | PHENOL<br>(C6H-<br>5OH)<br>TOTAL<br>(UG/L)<br>(34694) | 2,4,6-<br>TRI-<br>CHLORO-<br>PHENOL<br>TOTAL<br>(UG/L)<br>(34621)           |
| AUG<br>23... | <5.00                                                                          | <5.00                                                            | <5.00                                                      | <30.0                                                              | <20.0                                                                 | <5.00                                                               | <30.0                                                               | <30.0                                                                     | <30.0                                                     | <5.00                                                 | <20.0                                                                       |

## 02480208 ESCATAWPA RIVER AT MILE 0 NEAR ESCATAWPA, MS

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-------|------|---------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| AUG   |      |                                             |                                                              |                                                                      |                                                 |                                                |
| 23... | 0845 | 1.00                                        | 11500                                                        | 7.2                                                                  | 28.0                                            | 6.8                                            |
| 23... | 0846 | 5.00                                        | 29800                                                        | 7.4                                                                  | 28.5                                            | 3.0                                            |
| 23... | 0847 | 10.0                                        | 39400                                                        | 7.6                                                                  | 29.0                                            | 2.4                                            |
| 23... | 0848 | 15.0                                        | 35300                                                        | 7.7                                                                  | 29.0                                            | 2.3                                            |
| 23... | 0849 | 20.0                                        | 35100                                                        | 7.8                                                                  | 29.0                                            | 2.2                                            |
| 23... | 0850 | 23.0                                        | 36200                                                        | 7.8                                                                  | 29.0                                            | 2.2                                            |
| 23... | 1730 | 1.00                                        | 12200                                                        | 7.6                                                                  | 31.0                                            | 8.4                                            |
| 23... | 1731 | 5.00                                        | 17200                                                        | 7.3                                                                  | 30.0                                            | 5.1                                            |
| 23... | 1732 | 10.0                                        | 31500                                                        | 7.3                                                                  | 29.0                                            | 2.7                                            |
| 23... | 1733 | 15.0                                        | 33200                                                        | 7.4                                                                  | 29.0                                            | 0.5                                            |
| 23... | 1734 | 20.0                                        | 33900                                                        | 7.5                                                                  | 29.0                                            | 0.3                                            |
| 23... | 1735 | 25.0                                        | 34500                                                        | 7.5                                                                  | 29.0                                            | 0.2                                            |
| 23... | 1736 | 29.0                                        | 34600                                                        | 7.5                                                                  | 29.0                                            | 0.2                                            |

## 302507088342800 PASCAGOULA RIVER AT MILE 6

|       |      |                                                                           |                                                                  | PH                                                               |                                                                  |                                                                                |                                                        |                                                                 |                                                           |
|-------|------|---------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------|
|       |      |                                                                           |                                                                  | WATER                                                            |                                                                  |                                                                                |                                                        |                                                                 |                                                           |
|       |      |                                                                           |                                                                  | CIFIC                                                            |                                                                  |                                                                                |                                                        |                                                                 |                                                           |
|       |      |                                                                           |                                                                  | WHOLE                                                            |                                                                  |                                                                                |                                                        |                                                                 |                                                           |
|       |      |                                                                           |                                                                  | FIELD                                                            |                                                                  |                                                                                |                                                        |                                                                 |                                                           |
|       |      |                                                                           |                                                                  | (STAND-                                                          |                                                                  |                                                                                |                                                        |                                                                 |                                                           |
|       |      |                                                                           |                                                                  | ARD                                                              |                                                                  |                                                                                |                                                        |                                                                 |                                                           |
| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003)                               | CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095)                      | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010)                  | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300)                   |                                                                                |                                                        |                                                                 |                                                           |
| AUG   |      |                                                                           |                                                                  |                                                                  |                                                                  |                                                                                |                                                        |                                                                 |                                                           |
| 23... | 0706 | 1.00                                                                      | 18000                                                            | 7.4                                                              | 28.5                                                             | 5.5                                                                            |                                                        |                                                                 |                                                           |
| 23... | 0707 | 5.00                                                                      | 30000                                                            | 7.6                                                              | 29.0                                                             | 3.3                                                                            |                                                        |                                                                 |                                                           |
| 23... | 0708 | 10.0                                                                      | 35800                                                            | 7.7                                                              | 29.0                                                             | 2.0                                                                            |                                                        |                                                                 |                                                           |
| 23... | 0709 | 12.0                                                                      | 35900                                                            | 7.7                                                              | 29.0                                                             | 1.9                                                                            |                                                        |                                                                 |                                                           |
| 23... | 1606 | 1.00                                                                      | 10800                                                            | 7.0                                                              | 30.5                                                             | 6.5                                                                            |                                                        |                                                                 |                                                           |
| 23... | 1607 | 5.00                                                                      | 27600                                                            | 7.3                                                              | 29.5                                                             | 2.2                                                                            |                                                        |                                                                 |                                                           |
| 23... | 1608 | 10.0                                                                      | 32200                                                            | 7.4                                                              | 29.5                                                             | 1.4                                                                            |                                                        |                                                                 |                                                           |
| 23... | 1609 | 15.0                                                                      | 32400                                                            | 7.5                                                              | 29.0                                                             | 0.8                                                                            |                                                        |                                                                 |                                                           |
|       |      |                                                                           |                                                                  |                                                                  |                                                                  |                                                                                |                                                        |                                                                 |                                                           |
|       |      | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L)<br>(00310) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L)<br>(00615)<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L)<br>(00630)<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L)<br>(00610)<br>AS N) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L)<br>(00625)<br>AS N) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L)<br>(00665)<br>AS P) | PHOS-<br>PHORUS<br>ORTHO<br>TOTAL<br>(MG/L)<br>(70507)<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L)<br>(00680)<br>AS C) |
| DATE  | TIME |                                                                           |                                                                  |                                                                  |                                                                  |                                                                                |                                                        |                                                                 |                                                           |
| AUG   |      |                                                                           |                                                                  |                                                                  |                                                                  |                                                                                |                                                        |                                                                 |                                                           |
| 23... | 0705 | 0.9                                                                       | <0.010                                                           | 0.060                                                            | 0.090                                                            | <0.20                                                                          | 0.040                                                  | 0.040                                                           | 20                                                        |
| 23... | 1605 | --                                                                        | <0.010                                                           | 0.050                                                            | 0.170                                                            | <0.20                                                                          | 0.060                                                  | 0.050                                                           | 20                                                        |



WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES  
WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

PASCAGOULA RIVER BASIN--Continued

PASCAGOULA AND ESCATAWPA RIVERS STUDY--Continued

302430088350400 PASCAGOULA RIVER AT MILE 5

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-------|------|---------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| AUG   |      |                                             |                                                              |                                                                      |                                                 |                                                |
| 23... | 0658 | 1.00                                        | 18200                                                        | 7.6                                                                  | 28.0                                            | 6.2                                            |
| 23... | 0659 | 5.00                                        | 30200                                                        | 7.9                                                                  | 29.0                                            | 5.6                                            |
| 23... | 0700 | 10.0                                        | 37000                                                        | 8.0                                                                  | 29.0                                            | 4.5                                            |
| 23... | 0701 | 14.0                                        | 36500                                                        | 7.9                                                                  | 29.0                                            | 3.2                                            |
| 23... | 1558 | 1.00                                        | 12500                                                        | 7.4                                                                  | 30.5                                            | 7.2                                            |
| 23... | 1559 | 5.00                                        | 29600                                                        | 7.4                                                                  | 29.5                                            | 2.8                                            |
| 23... | 1600 | 10.0                                        | 32500                                                        | 7.5                                                                  | 29.0                                            | 1.4                                            |
| 23... | 1601 | 13.0                                        | 32100                                                        | 7.5                                                                  | 29.0                                            | 1.2                                            |

302345088343800 PASCAGOULA RIVER AT MILE 4

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-------|------|---------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| AUG   |      |                                             |                                                              |                                                                      |                                                 |                                                |
| 23... | 0651 | 1.00                                        | 20400                                                        | 7.6                                                                  | 28.0                                            | 6.2                                            |
| 23... | 0652 | 5.00                                        | 29000                                                        | 8.0                                                                  | 29.0                                            | 5.7                                            |
| 23... | 0653 | 10.0                                        | 35500                                                        | 8.1                                                                  | 29.0                                            | 5.6                                            |
| 23... | 0654 | 15.0                                        | 36700                                                        | 8.1                                                                  | 29.0                                            | 5.1                                            |
| 23... | 0655 | 18.0                                        | 37700                                                        | 8.1                                                                  | 29.0                                            | 4.6                                            |
| 23... | 1551 | 1.00                                        | 15400                                                        | 7.3                                                                  | 30.0                                            | 6.8                                            |
| 23... | 1552 | 5.00                                        | 25000                                                        | 7.4                                                                  | 29.5                                            | 3.5                                            |
| 23... | 1553 | 10.0                                        | 31700                                                        | 7.5                                                                  | 29.5                                            | 1.8                                            |
| 23... | 1554 | 15.0                                        | 31900                                                        | 7.6                                                                  | 29.0                                            | 1.4                                            |
| 23... | 1555 | 20.0                                        | 32300                                                        | 7.6                                                                  | 29.0                                            | 1.3                                            |

| DATE  | TIME | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L)<br>(00310) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L)<br>AS N<br>(00615) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L)<br>AS N<br>(00630) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L)<br>AS N<br>(00610) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L)<br>AS N<br>(00625) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L)<br>AS P<br>(00665) | PHOS-<br>PHORUS<br>ORTHO<br>TOTAL<br>(MG/L)<br>AS P<br>(70507) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L)<br>AS C<br>(00680) |
|-------|------|---------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|
| AUG   |      |                                                                           |                                                                 |                                                                 |                                                                 |                                                                               |                                                       |                                                                |                                                          |
| 23... | 0650 | 1.3                                                                       | <0.010                                                          | 0.030                                                           | 0.070                                                           | 0.34                                                                          | 0.040                                                 | 0.050                                                          | 23                                                       |
| 23... | 1550 | --                                                                        | <0.010                                                          | 0.060                                                           | 0.110                                                           | <0.20                                                                         | 0.050                                                 | 0.040                                                          | 20                                                       |

302319088335400 PASCAGOULA RIVER AT MILE 3

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-------|------|---------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| AUG   |      |                                             |                                                              |                                                                      |                                                 |                                                |
| 23... | 0640 | 1.00                                        | 24600                                                        | 7.8                                                                  | 27.5                                            | 6.2                                            |
| 23... | 0641 | 5.00                                        | 35400                                                        | 8.1                                                                  | 29.0                                            | 5.8                                            |
| 23... | 0642 | 10.0                                        | 36500                                                        | 8.1                                                                  | 29.0                                            | 5.7                                            |
| 23... | 0643 | 15.0                                        | 37800                                                        | 8.1                                                                  | 29.0                                            | 5.3                                            |
| 23... | 0644 | 20.0                                        | 37800                                                        | 8.1                                                                  | 29.0                                            | 4.9                                            |
| 23... | 0645 | 25.0                                        | 37800                                                        | 8.1                                                                  | 29.0                                            | 4.6                                            |
| 23... | 0646 | 30.0                                        | 38000                                                        | 8.1                                                                  | 29.0                                            | 4.5                                            |
| 23... | 0647 | 35.0                                        | 38000                                                        | 8.1                                                                  | 29.0                                            | 4.4                                            |
| 23... | 0648 | 40.0                                        | 38900                                                        | 8.1                                                                  | 29.0                                            | 4.4                                            |
| 23... | 1538 | 1.00                                        | 20000                                                        | 7.6                                                                  | 30.0                                            | 6.1                                            |
| 23... | 1539 | 5.00                                        | 20600                                                        | 7.6                                                                  | 30.0                                            | 5.7                                            |
| 23... | 1540 | 10.0                                        | 20400                                                        | 7.6                                                                  | 30.0                                            | 5.6                                            |
| 23... | 1541 | 15.0                                        | 29900                                                        | 7.7                                                                  | 29.5                                            | 3.2                                            |
| 23... | 1542 | 20.0                                        | 31600                                                        | 7.7                                                                  | 29.5                                            | 2.8                                            |
| 23... | 1543 | 25.0                                        | 32300                                                        | 7.4                                                                  | 29.5                                            | 2.4                                            |
| 23... | 1544 | 30.0                                        | 32600                                                        | 7.8                                                                  | 29.5                                            | 2.3                                            |
| 23... | 1545 | 35.0                                        | 32900                                                        | 7.8                                                                  | 29.5                                            | 2.5                                            |
| 23... | 1546 | 40.0                                        | 33300                                                        | 7.8                                                                  | 29.5                                            | 2.7                                            |
| 23... | 1547 | 45.0                                        | 33000                                                        | 7.8                                                                  | 29.0                                            | 2.7                                            |
| 23... | 1548 | 47.0                                        | 33300                                                        | 7.8                                                                  | 29.0                                            | 2.7                                            |

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## PASCAGOULA RIVER BASIN--Continued

## PASCAGOULA AND ESCATAWPA RIVERS STUDY--Continued

02480210 PASCAGOULA RIVER AT HWY 90 AT PASCAGOULA, MS

|       |       |                                                                                |                                                                            | PH                                                                                     |                                                                           |                                                                                  |                                                                             |                                                                                |                                                                                   |                                                                             |                                                                                   |                                                                   |                                                                |
|-------|-------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------|
|       |       |                                                                                |                                                                            | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003)                                            | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095)              | WATER<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400)                            | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010)                             | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300)                                 |                                                                                   |                                                                             |                                                                                   |                                                                   |                                                                |
| DATE  |       | TIME                                                                           |                                                                            |                                                                                        |                                                                           |                                                                                  |                                                                             |                                                                                |                                                                                   |                                                                             |                                                                                   |                                                                   |                                                                |
| AUG   |       |                                                                                |                                                                            |                                                                                        |                                                                           |                                                                                  |                                                                             |                                                                                |                                                                                   |                                                                             |                                                                                   |                                                                   |                                                                |
| 23... |       | 0631                                                                           |                                                                            | 1.00                                                                                   | 28900                                                                     | 8.0                                                                              | 28.0                                                                        | 6.7                                                                            |                                                                                   |                                                                             |                                                                                   |                                                                   |                                                                |
| 23... |       | 0632                                                                           |                                                                            | 5.00                                                                                   | 35800                                                                     | 8.1                                                                              | 28.5                                                                        | 6.2                                                                            |                                                                                   |                                                                             |                                                                                   |                                                                   |                                                                |
| 23... |       | 0633                                                                           |                                                                            | 10.0                                                                                   | 35700                                                                     | 8.2                                                                              | 29.0                                                                        | 6.3                                                                            |                                                                                   |                                                                             |                                                                                   |                                                                   |                                                                |
| 23... |       | 0634                                                                           |                                                                            | 15.0                                                                                   | 37500                                                                     | 8.1                                                                              | 29.0                                                                        | 5.4                                                                            |                                                                                   |                                                                             |                                                                                   |                                                                   |                                                                |
| 23... |       | 0635                                                                           |                                                                            | 20.0                                                                                   | 38200                                                                     | 8.0                                                                              | 29.0                                                                        | 4.3                                                                            |                                                                                   |                                                                             |                                                                                   |                                                                   |                                                                |
| 23... |       | 0636                                                                           |                                                                            | 25.0                                                                                   | 41600                                                                     | 7.9                                                                              | 29.0                                                                        | 2.3                                                                            |                                                                                   |                                                                             |                                                                                   |                                                                   |                                                                |
| 23... |       | 0637                                                                           |                                                                            | 27.0                                                                                   | 42300                                                                     | 7.9                                                                              | 29.0                                                                        | 1.6                                                                            |                                                                                   |                                                                             |                                                                                   |                                                                   |                                                                |
| 23... |       | 1531                                                                           |                                                                            | 1.00                                                                                   | 23300                                                                     | 7.7                                                                              | 30.0                                                                        | 6.7                                                                            |                                                                                   |                                                                             |                                                                                   |                                                                   |                                                                |
| 23... |       | 1532                                                                           |                                                                            | 5.00                                                                                   | 24900                                                                     | 7.7                                                                              | 30.0                                                                        | 5.9                                                                            |                                                                                   |                                                                             |                                                                                   |                                                                   |                                                                |
| 23... |       | 1533                                                                           |                                                                            | 10.0                                                                                   | 25400                                                                     | 7.7                                                                              | 30.0                                                                        | 5.8                                                                            |                                                                                   |                                                                             |                                                                                   |                                                                   |                                                                |
| 23... |       | 1534                                                                           |                                                                            | 15.0                                                                                   | 29600                                                                     | 7.8                                                                              | 30.0                                                                        | 4.7                                                                            |                                                                                   |                                                                             |                                                                                   |                                                                   |                                                                |
| 23... |       | 1535                                                                           |                                                                            | 20.0                                                                                   | 34700                                                                     | 7.9                                                                              | 29.0                                                                        | 3.5                                                                            |                                                                                   |                                                                             |                                                                                   |                                                                   |                                                                |
| 23... |       | 1536                                                                           |                                                                            | 25.0                                                                                   | 44200                                                                     | 7.9                                                                              | 29.0                                                                        | 1.5                                                                            |                                                                                   |                                                                             |                                                                                   |                                                                   |                                                                |
|       |       | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L)<br>(00310)      | COLI-<br>FORM,<br>FECAL,<br>UM-MF<br>(COLS./<br>100 ML)<br>(31625)         | STREP-<br>TOCOCCI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>(31673)                     | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615)           | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630)                  | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610)             | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665)                             | PHOS-<br>PHORUS<br>ORTHO<br>TOTAL<br>(MG/L<br>AS P)<br>(70507)              | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680)                          |                                                                   |                                                                |
| AUG   | 23... | 0630                                                                           | 1.9                                                                        | 120                                                                                    | 950                                                                       | <0.010                                                                           | <0.020                                                                      | 0.070                                                                          | 0.24                                                                              | 0.050                                                                       | 0.060                                                                             | 24                                                                |                                                                |
|       | 23... | 1530                                                                           | --                                                                         | K38                                                                                    | 83                                                                        | <0.010                                                                           | 0.030                                                                       | 0.090                                                                          | 0.48                                                                              | 0.060                                                                       | 0.050                                                                             | 22                                                                |                                                                |
|       |       | TUR-<br>BID-<br>ITY<br>(NTU)<br>(00076)                                        | 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)                        | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA)<br>(00930)                   | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K)<br>(00935)                   | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4)<br>(00945)                    | 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)                     | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SUS-<br>PENDED<br>(70300) | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>(00530)                          |                                                                   |                                                                |
| AUG   | 23... | 1530                                                                           | 6.0                                                                        | 210                                                                                    | 640                                                                       | 5600                                                                             | 200                                                                         | 1300                                                                           | 9800                                                                              | 0.40                                                                        | 18700                                                                             | 22                                                                |                                                                |
|       |       | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS)<br>(01002)                                 | BERYL-<br>LIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS BE)<br>(01012) | CADMIUM<br>WATER<br>UNFLTDR<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD)<br>(01027) | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR)<br>(01034) | COPPER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU)<br>(01042)               | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB)<br>(01051)            | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG)<br>(71900)             | NICKEL,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS NI)<br>(01067)                | SELE-<br>NIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS SE)<br>(01147)   | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN)<br>(01092)                  |                                                                   |                                                                |
| AUG   | 23... | 2                                                                              | 1.2                                                                        | <1                                                                                     | 1                                                                         | 3                                                                                | <1                                                                          | <0.10                                                                          | <1                                                                                | <1                                                                          | 6                                                                                 |                                                                   |                                                                |
|       |       | ACE-<br>NAPHTH-<br>ENE<br>TOTAL<br>(UG/L)<br>(34205)                           | ACE-<br>NAPHTH-<br>YLENE<br>TOTAL<br>(UG/L)<br>(34200)                     | ANTHRA-<br>CENE<br>TOTAL<br>(UG/L)<br>(34220)                                          | BENZI-<br>DINE<br>TOTAL<br>(UG/L)<br>(39120)                              | BENZO A<br>ANTHRAC-<br>ENE1,2-<br>BENZANT<br>THENE<br>TOTAL<br>(UG/L)<br>(34526) | BENZO B<br>FLUORO-<br>AN-<br>THENE<br>TOTAL<br>(UG/L)<br>(34230)            | BENZO K<br>FLUORO-<br>AN-<br>THENE<br>TOTAL<br>(UG/L)<br>(34242)               | BENZOGH<br>I PERVL<br>ENE1,12<br>-BENZOP<br>ERYLENE<br>TOTAL<br>(UG/L)<br>(34521) | BENZO-<br>A-<br>PYRENE<br>TOTAL<br>(UG/L)<br>(34247)                        | 4-<br>BROMO-<br>PHENYL<br>ETHER<br>TOTAL<br>(UG/L)<br>(34636)                     | N-BUTYL<br>BENZYL<br>PHTHAL-<br>ATE<br>TOTAL<br>(UG/L)<br>(34292) | BIS<br>(2-<br>ETHOXY)<br>METHANE<br>TOTAL<br>(UG/L)<br>(34278) |
| AUG   | 23... | <5.00                                                                          | <5.00                                                                      | <5.00                                                                                  | <40.0                                                                     | <10.0                                                                            | <10.0                                                                       | <10.0                                                                          | <10.0                                                                             | <5.00                                                                       | <5.00                                                                             | <5.00                                                             |                                                                |
|       |       | BIS 2-<br>CHLORO-<br>ETHYL<br>ETHER<br>UNFLTDR<br>RECOVER<br>(UG/L)<br>(34273) | BIS (2-<br>CHLORO-<br>ISO-<br>PROPYL)<br>TOTAL<br>(UG/L)<br>(34283)        | 2-<br>CHLORO-<br>NAPH-<br>THALENE<br>TOTAL<br>(UG/L)<br>(34581)                        | 4-<br>CHLORO-<br>PHENYL<br>ETHER<br>TOTAL<br>(UG/L)<br>(34641)            | 1,2,5,6<br>-DIBENZ<br>-ANTHRA-<br>CENE<br>TOTAL<br>(UG/L)<br>(34556)             | BENZENE<br>O-DI-<br>CHLORO-<br>WATER<br>UNFLTDR<br>REC<br>(UG/L)<br>(34536) | BENZENE<br>1,3-DI-<br>CHLORO-<br>WATER<br>UNFLTDR<br>REC<br>(UG/L)<br>(34566)  | BENZENE<br>1,4-DI-<br>CHLORO-<br>WATER<br>UNFLTDR<br>REC<br>(UG/L)<br>(34571)     | 3,3'-<br>DI-<br>CHLORO-<br>BENZIL-<br>DINE<br>TOTAL<br>(UG/L)<br>(34631)    | DIETHYL<br>PHTHAL-<br>ATE<br>TOTAL<br>(UG/L)<br>(34336)                           | METHYL<br>PHTHAL-<br>ATE<br>TOTAL<br>(UG/L)<br>(34341)            |                                                                |
| AUG   | 23... | <5.00                                                                          | <5.00                                                                      | <5.00                                                                                  | <5.00                                                                     | <10.0                                                                            | <10.0                                                                       | <5.00                                                                          | <5.00                                                                             | <5.00                                                                       | <20.0                                                                             | <5.00                                                             | <5.00                                                          |
|       |       | DI-N-<br>BUTYL<br>PHTHAL-<br>ATE<br>TOTAL<br>(UG/L)<br>(39110)                 | 2,4-DI-<br>NITRO-<br>TOLUENE<br>TOTAL<br>(UG/L)<br>(34611)                 | 2,6-DI-<br>NITRO-<br>TOLUENE<br>TOTAL<br>(UG/L)<br>(34626)                             | DI-N-<br>OCTYL<br>PHTHAL-<br>ATE<br>TOTAL<br>(UG/L)<br>(34596)            | 1,2-DI-<br>PHENYL-<br>HYDRA-<br>ZINE<br>WATER<br>TOT.REC<br>(UG/L)<br>(82626)    | FLUOR-<br>ANTHENE<br>TOTAL<br>(UG/L)<br>(34376)                             | FLUOR-<br>ENE<br>TOTAL<br>(UG/L)<br>(34381)                                    | HEXA-<br>CHLORO-<br>BENZENE<br>TOTAL<br>(UG/L)<br>(39700)                         | HEXA-<br>CHLORO-<br>BUT-<br>ADIENE<br>TOTAL<br>(UG/L)<br>(39702)            | CYCLOPE<br>NTADIEN<br>HEXA-<br>CHLORO-<br>UNFLTDR<br>RECOVER<br>(UG/L)<br>(34386) |                                                                   |                                                                |
| AUG   | 23... | <5.00                                                                          | <5.00                                                                      | <5.00                                                                                  | <10.0                                                                     | <5.00                                                                            | <5.00                                                                       | <5.00                                                                          | <5.00                                                                             | <5.00                                                                       | <5.00                                                                             | <5.00                                                             |                                                                |

WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES  
WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

PASCAGOULA RIVER BASIN--Continued

PASCAGOULA AND ESCATAWPA RIVERS STUDY--Continued

02480210 PASCAGOULA RIVER AT HWY 90 AT PASCAGOULA, MS--Continued

| DATE         | ETHANE<br>HEXA-<br>CHLORO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(34396) | INDENO<br>(1,2,3-<br>CD)<br>PYRENE<br>TOTAL<br>(UG/L)<br>(34403) | ISO-<br>PHORONE<br>TOTAL<br>(UG/L)<br>(34408)              | NAPHTH-<br>ALENE<br>TOTAL<br>(UG/L)<br>(34696)                     | BENZENE<br>NITRO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(34447) | N-NITRO<br>-SODI-<br>METHY-<br>LAMINE<br>TOTAL<br>(UG/L)<br>(34438) | N-NITRO<br>-SODI-<br>PHENY-<br>LAMINE<br>TOTAL<br>(UG/L)<br>(34433) | N-<br>NITRO-<br>SODI-N-<br>PROPYL-<br>AMINE<br>TOTAL<br>(UG/L)<br>(34428) | PHENAN-<br>THRENE<br>TOTAL<br>(UG/L)<br>(34461)           | PYRENE<br>TOTAL<br>(UG/L)<br>(34469)                  | BENZENE<br>1,2,4-<br>TRI-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(34551) |
|--------------|--------------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------------------|
| AUG<br>23... | <5.00                                                                          | <10.0                                                            | <5.00                                                      | <5.00                                                              | <5.00                                                                 | <5.00                                                               | <5.00                                                               | <5.00                                                                     | <5.00                                                     | <5.00                                                 | <5.00                                                                       |
| DATE         | 2-<br>CHLORO-<br>PHENOL<br>TOTAL<br>(UG/L)<br>(34586)                          | 2,4-DI-<br>CHLORO-<br>PHENOL<br>TOTAL<br>(UG/L)<br>(34601)       | 2,4-DI-<br>METHYL-<br>PHENOL<br>TOTAL<br>(UG/L)<br>(34606) | 4,6-<br>DINITRO<br>-ORTHO-<br>CRESOL<br>TOTAL<br>(UG/L)<br>(34657) | 2,4-<br>DI-<br>NITRO-<br>PHENOL<br>TOTAL<br>(UG/L)<br>(34616)         | 2-<br>NITRO-<br>PHENOL<br>TOTAL<br>(UG/L)<br>(34591)                | 4-<br>NITRO-<br>PHENOL<br>TOTAL<br>(UG/L)<br>(34646)                | PARA-<br>CHLORO-<br>META<br>CRESOL<br>TOTAL<br>(UG/L)<br>(34452)          | PENTA-<br>CHLORO-<br>PHENOL<br>TOTAL<br>(UG/L)<br>(39032) | PHENOL<br>(C6H-<br>5OH)<br>TOTAL<br>(UG/L)<br>(34694) | 2,4,6-<br>TRI-<br>CHLORO-<br>PHENOL<br>TOTAL<br>(UG/L)<br>(34621)           |
| AUG<br>23... | <5.00                                                                          | <5.00                                                            | <5.00                                                      | <30.0                                                              | <20.0                                                                 | <5.00                                                               | <30.0                                                               | <30.0                                                                     | <30.0                                                     | <5.00                                                 | <20.0                                                                       |

02480212 PASCAGOULA RIVER AT MILE 1 AT PASCAGOULA, MS

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-------|------|---------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| AUG   |      |                                             |                                                              |                                                                      |                                                 |                                                |
| 23... | 0615 | 1.00                                        | 31800                                                        | 8.1                                                                  | 28.0                                            | 6.4                                            |
| 23... | 0616 | 5.00                                        | 36000                                                        | 8.2                                                                  | 29.0                                            | 6.5                                            |
| 23... | 0617 | 10.0                                        | 36400                                                        | 8.2                                                                  | 29.0                                            | 6.4                                            |
| 23... | 0618 | 15.0                                        | 36500                                                        | 8.2                                                                  | 29.0                                            | 6.0                                            |
| 23... | 0619 | 20.0                                        | 41900                                                        | 8.0                                                                  | 29.0                                            | 3.3                                            |
| 23... | 0620 | 25.0                                        | 43300                                                        | 8.1                                                                  | 29.0                                            | 3.3                                            |
| 23... | 0621 | 30.0                                        | 45300                                                        | 7.9                                                                  | 28.5                                            | 0.8                                            |
| 23... | 0622 | 35.0                                        | 48300                                                        | 7.8                                                                  | 28.0                                            | 0.2                                            |
| 23... | 0623 | 40.0                                        | 48500                                                        | 7.8                                                                  | 27.5                                            | 0.1                                            |
| 23... | 1515 | 1.00                                        | 24200                                                        | 7.8                                                                  | 30.0                                            | 6.6                                            |
| 23... | 1516 | 5.00                                        | 27300                                                        | 7.9                                                                  | 29.5                                            | 5.8                                            |
| 23... | 1517 | 10.0                                        | 29900                                                        | 7.9                                                                  | 29.5                                            | 4.8                                            |
| 23... | 1518 | 15.0                                        | 39500                                                        | 7.9                                                                  | 29.0                                            | 3.5                                            |
| 23... | 1519 | 20.0                                        | 44500                                                        | 8.0                                                                  | 29.0                                            | 2.6                                            |
| 23... | 1520 | 25.0                                        | 45600                                                        | 7.9                                                                  | 29.0                                            | 1.6                                            |
| 23... | 1521 | 30.0                                        | 46900                                                        | 7.9                                                                  | 28.0                                            | 0.5                                            |
| 23... | 1522 | 35.0                                        | 48000                                                        | 7.8                                                                  | 28.0                                            | 0.3                                            |
| 23... | 1523 | 39.0                                        | 48100                                                        | 7.8                                                                  | 28.0                                            | 0.1                                            |

02480215 PASCAGOULA RIVER AT MILE 0 AT PASCAGOULA, MS

|     |       |                                                                           |                                                                  | PH                                                               |                                                                  |                                                                                 |                                                                 |                                                                 |                                                           |    |
|-----|-------|---------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------|----|
|     |       | SAM-<br>FLING<br>DEPTH<br>(FEET)<br>(00003)                               | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095)     | WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400)   | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010)                  | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300)                                  |                                                                 |                                                                 |                                                           |    |
| AUG |       |                                                                           |                                                                  |                                                                  |                                                                  |                                                                                 |                                                                 |                                                                 |                                                           |    |
|     | 23... | 0601                                                                      | 1.00                                                             | 34300                                                            | 8.0                                                              | 28.5                                                                            | 5.8                                                             |                                                                 |                                                           |    |
|     | 23... | 0602                                                                      | 5.00                                                             | 35700                                                            | 8.1                                                              | 29.0                                                                            | 6.2                                                             |                                                                 |                                                           |    |
|     | 23... | 0603                                                                      | 10.0                                                             | 37000                                                            | 8.1                                                              | 29.0                                                                            | 5.9                                                             |                                                                 |                                                           |    |
|     | 23... | 0604                                                                      | 15.0                                                             | 38100                                                            | 7.9                                                              | 29.0                                                                            | 4.4                                                             |                                                                 |                                                           |    |
|     | 23... | 0605                                                                      | 20.0                                                             | 42700                                                            | 7.9                                                              | 29.0                                                                            | 2.2                                                             |                                                                 |                                                           |    |
|     | 23... | 0606                                                                      | 25.0                                                             | 44400                                                            | 8.0                                                              | 28.5                                                                            | 1.9                                                             |                                                                 |                                                           |    |
|     | 23... | 0607                                                                      | 30.0                                                             | 46100                                                            | 7.9                                                              | 28.5                                                                            | 0.5                                                             |                                                                 |                                                           |    |
|     | 23... | 0608                                                                      | 35.0                                                             | 47500                                                            | 7.8                                                              | 28.0                                                                            | 0.1                                                             |                                                                 |                                                           |    |
|     | 23... | 0609                                                                      | 38.0                                                             | 48200                                                            | 7.8                                                              | 28.0                                                                            | 0.1                                                             |                                                                 |                                                           |    |
|     | 23... | 1501                                                                      | 1.00                                                             | 26000                                                            | 7.9                                                              | 30.0                                                                            | 6.5                                                             |                                                                 |                                                           |    |
|     | 23... | 1502                                                                      | 5.00                                                             | 29300                                                            | 7.9                                                              | 29.5                                                                            | 5.6                                                             |                                                                 |                                                           |    |
|     | 23... | 1503                                                                      | 10.0                                                             | 35300                                                            | 7.9                                                              | 29.5                                                                            | 4.3                                                             |                                                                 |                                                           |    |
|     | 23... | 1504                                                                      | 15.0                                                             | 37700                                                            | 8.0                                                              | 29.0                                                                            | 3.7                                                             |                                                                 |                                                           |    |
|     | 23... | 1505                                                                      | 20.0                                                             | 40100                                                            | 8.0                                                              | 29.0                                                                            | 3.2                                                             |                                                                 |                                                           |    |
|     | 23... | 1506                                                                      | 25.0                                                             | 44600                                                            | 8.1                                                              | 29.0                                                                            | 3.9                                                             |                                                                 |                                                           |    |
|     | 23... | 1507                                                                      | 30.0                                                             | 46300                                                            | 7.9                                                              | 28.0                                                                            | 0.5                                                             |                                                                 |                                                           |    |
|     | 23... | 1508                                                                      | 35.0                                                             | 46900                                                            | 7.8                                                              | 28.0                                                                            | 0.1                                                             |                                                                 |                                                           |    |
|     | 23... | 1509                                                                      | 38.0                                                             | 48400                                                            | 7.8                                                              | 28.0                                                                            | 0.1                                                             |                                                                 |                                                           |    |
|     |       |                                                                           |                                                                  |                                                                  |                                                                  |                                                                                 |                                                                 |                                                                 |                                                           |    |
|     |       | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L)<br>(00310) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L)<br>AS N)<br>(00615) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L)<br>AS N)<br>(00630) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L)<br>AS N)<br>(00610) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L)<br>AS N)<br>(00625) | PHOS-<br>PHORUS<br>ORTHO<br>TOTAL<br>(MG/L)<br>AS P)<br>(00665) | PHOS-<br>PHORUS<br>ORTHO<br>TOTAL<br>(MG/L)<br>AS P)<br>(00665) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L)<br>AS C)<br>(00680) |    |
| AUG |       |                                                                           |                                                                  |                                                                  |                                                                  |                                                                                 |                                                                 |                                                                 |                                                           |    |
|     | 23... | 0600                                                                      | 1.9                                                              | <0.010                                                           | <0.020                                                           | 0.110                                                                           | 0.32                                                            | 0.070                                                           | 0.080                                                     | 33 |
|     | 23... | 1500                                                                      | --                                                               | <0.010                                                           | <0.020                                                           | 0.100                                                                           | 0.38                                                            | 0.060                                                           | 0.060                                                     | 31 |

WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES  
WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

225

YAZOO RIVER BASIN

HICKAHALA CREEK BASIN STUDY

07277520 HICKAHALA CREEK NEAR INDEPENDENCE, MS

| DATE  | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML)<br>(31625) | STREP-<br>TOCOCCI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML)<br>(31673) |
|-------|------|-----------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| OCT   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                           |                                                                               |
| 31... | 0600 | 7.7                                                                   | 60                                                           | 6.3                                                                  | 15.0                                            | 7.2                                            | K100                                                                      | K88                                                                           |
| 31... | 0900 | 7.7                                                                   | 58                                                           | 6.4                                                                  | 15.0                                            | 7.9                                            | --                                                                        | --                                                                            |
| 31... | 1200 | 7.8                                                                   | 57                                                           | 6.3                                                                  | 16.0                                            | 8.6                                            | K73                                                                       | K45                                                                           |
| 31... | 1500 | 7.8                                                                   | 66                                                           | 6.3                                                                  | 17.0                                            | 9.2                                            | --                                                                        | --                                                                            |
| 31... | 1800 | 7.8                                                                   | 54                                                           | 6.7                                                                  | 17.5                                            | 8.0                                            | K73                                                                       | K84                                                                           |
| 31... | 2100 | 7.8                                                                   | 58                                                           | 6.4                                                                  | 17.0                                            | 8.0                                            | --                                                                        | --                                                                            |
| 31... | 2400 | 7.9                                                                   | 59                                                           | 6.5                                                                  | 17.0                                            | 7.6                                            | K60                                                                       | K85                                                                           |
| NOV   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                           |                                                                               |
| 01... | 0300 | 8.0                                                                   | 59                                                           | 6.4                                                                  | 16.5                                            | 7.4                                            | --                                                                        | --                                                                            |
| 01... | 0600 | 7.9                                                                   | 57                                                           | 6.4                                                                  | 16.5                                            | 7.8                                            | --                                                                        | K72                                                                           |
| 01... | 0900 | 8.1                                                                   | 57                                                           | 6.4                                                                  | 17.0                                            | 7.4                                            | --                                                                        | --                                                                            |
| 01... | 1200 | 8.1                                                                   | 58                                                           | 6.4                                                                  | 17.0                                            | 8.2                                            | K60                                                                       | K80                                                                           |
| 01... | 1500 | 8.3                                                                   | 58                                                           | 6.4                                                                  | 17.5                                            | 8.5                                            | --                                                                        | --                                                                            |
| 01... | 1800 | 8.2                                                                   | 59                                                           | 6.5                                                                  | 17.5                                            | 8.7                                            | 480                                                                       | 560                                                                           |
| 01... | 2100 | 8.2                                                                   | 59                                                           | 6.5                                                                  | 17.5                                            | 7.6                                            | --                                                                        | --                                                                            |
| 01... | 2400 | 8.2                                                                   | 60                                                           | 6.5                                                                  | 17.5                                            | 8.5                                            | 140                                                                       | 160                                                                           |
| 02... | 0300 | 8.2                                                                   | 60                                                           | 6.6                                                                  | 17.0                                            | 7.4                                            | --                                                                        | --                                                                            |
| 02... | 0600 | 8.6                                                                   | 59                                                           | 6.4                                                                  | 17.0                                            | 6.8                                            | 3000                                                                      | 1800                                                                          |

| DATE  | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | PHOS-<br>PHORUS<br>ORTHO<br>TOTAL<br>(MG/L<br>AS P)<br>(70507) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) | 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) |
|-------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------|
| OCT   |                                                                 |                                                                 |                                                                 |                                                       |                                                                |                                                          |                                                      |                                                                          |
| 31... | <0.010                                                          | 0.450                                                           | 0.040                                                           | 0.070                                                 | 0.050                                                          | 2.7                                                      | 49                                                   | 1.0                                                                      |
| 31... | <0.010                                                          | 0.450                                                           | 0.040                                                           | 0.070                                                 | 0.050                                                          | 3.1                                                      | 21                                                   | 0.44                                                                     |
| 31... | <0.010                                                          | 0.450                                                           | 0.040                                                           | 0.060                                                 | 0.040                                                          | 2.8                                                      | 24                                                   | 0.51                                                                     |
| 31... | <0.010                                                          | 0.440                                                           | 0.030                                                           | 0.060                                                 | 0.050                                                          | 2.7                                                      | 18                                                   | 0.38                                                                     |
| 31... | <0.010                                                          | 0.430                                                           | 0.040                                                           | 0.060                                                 | 0.040                                                          | 2.6                                                      | 31                                                   | 0.65                                                                     |
| 31... | <0.010                                                          | 0.430                                                           | 0.030                                                           | 0.050                                                 | 0.040                                                          | 2.6                                                      | 22                                                   | 0.46                                                                     |
| 31... | <0.010                                                          | 0.430                                                           | 0.030                                                           | 0.070                                                 | 0.040                                                          | 2.5                                                      | 23                                                   | 0.49                                                                     |
| NOV   |                                                                 |                                                                 |                                                                 |                                                       |                                                                |                                                          |                                                      |                                                                          |
| 01... | <0.010                                                          | 0.430                                                           | 0.030                                                           | 0.050                                                 | 0.050                                                          | 2.3                                                      | 28                                                   | 0.60                                                                     |
| 01... | <0.010                                                          | 0.430                                                           | 0.020                                                           | 0.050                                                 | 0.040                                                          | 2.3                                                      | 23                                                   | 0.49                                                                     |
| 01... | 0.010                                                           | 0.430                                                           | 0.030                                                           | 0.050                                                 | 0.040                                                          | 2.3                                                      | 23                                                   | 0.50                                                                     |
| 01... | <0.010                                                          | 0.420                                                           | 0.010                                                           | 0.050                                                 | 0.040                                                          | 2.2                                                      | 21                                                   | 0.46                                                                     |
| 01... | 0.010                                                           | 0.410                                                           | 0.010                                                           | 0.060                                                 | 0.050                                                          | 2.5                                                      | 20                                                   | 0.45                                                                     |
| 01... | 0.010                                                           | 0.410                                                           | 0.010                                                           | 0.060                                                 | 0.040                                                          | 2.5                                                      | 25                                                   | 0.55                                                                     |
| 01... | 0.010                                                           | 0.400                                                           | 0.010                                                           | 0.050                                                 | 0.040                                                          | 2.5                                                      | 19                                                   | 0.42                                                                     |
| 01... | 0.010                                                           | 0.410                                                           | 0.020                                                           | 0.050                                                 | 0.040                                                          | 2.4                                                      | 21                                                   | 0.46                                                                     |
| 02... | 0.010                                                           | 0.410                                                           | 0.020                                                           | 0.050                                                 | 0.040                                                          | 2.4                                                      | 24                                                   | 0.53                                                                     |
| 02... | 0.010                                                           | 0.410                                                           | 0.020                                                           | 0.070                                                 | 0.060                                                          | 2.9                                                      | 27                                                   | 0.63                                                                     |

WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES  
WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

YAZOO RIVER BASIN--Continued

HICKAHALA CREEK BASIN STUDY--Continued

07277530 HICKAHALA CREEK NEAR LOOXAHOMA, MS

| DATE  | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML)<br>(31625) | STREP-<br>TOCOCCHI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML)<br>(31673) |
|-------|------|-----------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| OCT   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                           |                                                                                |
| 31... | 0630 | 23                                                                    | 58                                                           | 6.4                                                                  | 15.0                                            | 8.4                                            | 180                                                                       | 150                                                                            |
| 31... | 0930 | 22                                                                    | 54                                                           | 6.6                                                                  | 15.5                                            | 8.8                                            | --                                                                        | --                                                                             |
| 31... | 1230 | 22                                                                    | 53                                                           | 6.5                                                                  | 17.5                                            | 9.0                                            | 140                                                                       | K85                                                                            |
| 31... | 1530 | 22                                                                    | 53                                                           | 6.5                                                                  | 17.5                                            | 8.7                                            | --                                                                        | --                                                                             |
| 31... | 1830 | 22                                                                    | 59                                                           | 6.4                                                                  | 17.0                                            | 9.2                                            | 220                                                                       | 140                                                                            |
| 31... | 2130 | 22                                                                    | 54                                                           | 6.5                                                                  | 17.0                                            | 8.2                                            | --                                                                        | --                                                                             |
| NOV   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                           |                                                                                |
| 01... | 0030 | 22                                                                    | 53                                                           | 6.6                                                                  | 17.0                                            | 8.4                                            | 160                                                                       | 100                                                                            |
| 01... | 0330 | 22                                                                    | 53                                                           | 6.5                                                                  | 17.0                                            | 7.9                                            | --                                                                        | --                                                                             |
| 01... | 0630 | 22                                                                    | 63                                                           | 6.6                                                                  | 16.5                                            | 7.8                                            | --                                                                        | K100                                                                           |
| 01... | 0930 | 23                                                                    | 52                                                           | 6.5                                                                  | 17.0                                            | 8.4                                            | --                                                                        | --                                                                             |
| 01... | 1230 | 24                                                                    | 51                                                           | 6.6                                                                  | 18.0                                            | 8.8                                            | 120                                                                       | 100                                                                            |
| 01... | 1530 | 25                                                                    | 52                                                           | 6.5                                                                  | 18.5                                            | 8.5                                            | --                                                                        | --                                                                             |
| 01... | 1830 | 25                                                                    | 53                                                           | 6.5                                                                  | 17.5                                            | 8.5                                            | 480                                                                       | 240                                                                            |
| 01... | 2130 | 25                                                                    | 54                                                           | 6.5                                                                  | 17.5                                            | 8.2                                            | --                                                                        | --                                                                             |
| 02... | 0030 | 25                                                                    | 54                                                           | 6.5                                                                  | 17.0                                            | 8.4                                            | --                                                                        | --                                                                             |
| 02... | 0330 | 23                                                                    | 54                                                           | 6.6                                                                  | 17.5                                            | 8.5                                            | --                                                                        | --                                                                             |
| 02... | 0630 | 27                                                                    | 52                                                           | 6.5                                                                  | 17.0                                            | 7.8                                            | 720                                                                       | 820                                                                            |

| DATE  | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | PHOS-<br>PHORUS<br>ORTHO<br>TOTAL<br>(MG/L<br>AS P)<br>(70507) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) | 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) |
|-------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------|
| OCT   |                                                                 |                                                                 |                                                                 |                                                       |                                                                |                                                          |                                                      |                                                                          |
| 31... | <0.010                                                          | 0.410                                                           | 0.020                                                           | 0.070                                                 | 0.040                                                          | 2.2                                                      | 29                                                   | 1.8                                                                      |
| 31... | <0.010                                                          | 0.400                                                           | 0.010                                                           | 0.060                                                 | 0.040                                                          | 2.0                                                      | 19                                                   | 1.1                                                                      |
| 31... | <0.010                                                          | 0.380                                                           | 0.010                                                           | 0.040                                                 | 0.040                                                          | 1.3                                                      | 20                                                   | 1.2                                                                      |
| 31... | <0.010                                                          | 0.360                                                           | 0.010                                                           | 0.040                                                 | 0.040                                                          | 1.3                                                      | 14                                                   | 0.83                                                                     |
| 31... | <0.010                                                          | 0.360                                                           | 0.010                                                           | 0.040                                                 | 0.040                                                          | 1.3                                                      | --                                                   | --                                                                       |
| 31... | <0.010                                                          | 0.380                                                           | 0.010                                                           | 0.040                                                 | 0.040                                                          | 1.2                                                      | 23                                                   | 1.4                                                                      |
| NOV   |                                                                 |                                                                 |                                                                 |                                                       |                                                                |                                                          |                                                      |                                                                          |
| 01... | <0.010                                                          | 0.390                                                           | 0.010                                                           | 0.060                                                 | 0.030                                                          | 1.2                                                      | 23                                                   | 1.4                                                                      |
| 01... | <0.010                                                          | 0.390                                                           | 0.010                                                           | 0.050                                                 | 0.030                                                          | 1.2                                                      | 22                                                   | 1.3                                                                      |
| 01... | <0.010                                                          | 0.390                                                           | 0.010                                                           | 0.040                                                 | 0.030                                                          | 1.1                                                      | 26                                                   | 1.5                                                                      |
| 01... | <0.010                                                          | 0.370                                                           | <0.010                                                          | 0.070                                                 | 0.030                                                          | 1.1                                                      | 17                                                   | 1.1                                                                      |
| 01... | <0.010                                                          | 0.360                                                           | <0.010                                                          | 0.040                                                 | 0.030                                                          | 1.2                                                      | 21                                                   | 1.4                                                                      |
| 01... | <0.010                                                          | 0.340                                                           | <0.010                                                          | 0.040                                                 | 0.030                                                          | 1.3                                                      | 25                                                   | 1.7                                                                      |
| 01... | 0.010                                                           | 0.340                                                           | 0.010                                                           | 0.160                                                 | 0.040                                                          | 1.3                                                      | 30                                                   | 2.0                                                                      |
| 01... | 0.010                                                           | 0.350                                                           | 0.010                                                           | 0.040                                                 | 0.040                                                          | 1.2                                                      | 58                                                   | 3.9                                                                      |
| 02... | <0.010                                                          | 0.370                                                           | 0.010                                                           | 0.040                                                 | 0.030                                                          | 1.2                                                      | 31                                                   | 2.1                                                                      |
| 02... | <0.010                                                          | 0.380                                                           | 0.010                                                           | 0.040                                                 | 0.040                                                          | 1.2                                                      | 33                                                   | 2.0                                                                      |
| 02... | 0.010                                                           | 0.360                                                           | 0.010                                                           | 0.040                                                 | 0.040                                                          | 1.3                                                      | 30                                                   | 2.2                                                                      |

## WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## YAZOO RIVER BASIN--Continued

## HICKAHALA CREEK BASIN STUDY--Continued

07277548 JAMES WOLF CREEK NEAR LOOXAHOMA, MS

| DATE  | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML)<br>(31625) | STREP-<br>TOCOCCHI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML)<br>(31673) |
|-------|------|-----------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| OCT   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                           |                                                                                |
| 31... | 0700 | 8.3                                                                   | 87                                                           | 6.6                                                                  | 15.0                                            | 8.2                                            | 140                                                                       | 140                                                                            |
| 31... | 1000 | 8.4                                                                   | 85                                                           | 6.7                                                                  | 14.5                                            | 8.6                                            | --                                                                        | --                                                                             |
| 31... | 1300 | 8.6                                                                   | 82                                                           | 6.6                                                                  | 16.0                                            | 9.8                                            | 100                                                                       | K48                                                                            |
| 31... | 1600 | 8.4                                                                   | 82                                                           | 6.7                                                                  | 17.0                                            | 11.2                                           | --                                                                        | --                                                                             |
| 31... | 1900 | 8.3                                                                   | 82                                                           | 6.9                                                                  | 17.5                                            | 10.2                                           | 170                                                                       | K40                                                                            |
| 31... | 2200 | 8.3                                                                   | 82                                                           | 6.7                                                                  | 17.0                                            | 9.8                                            | --                                                                        | --                                                                             |
| NOV   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                           |                                                                                |
| 01... | 0100 | 8.4                                                                   | 82                                                           | 6.8                                                                  | 16.5                                            | 8.4                                            | --                                                                        | K56                                                                            |
| 01... | 0400 | 8.1                                                                   | 82                                                           | 6.7                                                                  | 16.5                                            | 8.0                                            | --                                                                        | --                                                                             |
| 01... | 0700 | 8.4                                                                   | 83                                                           | 7.1                                                                  | 16.5                                            | 8.0                                            | --                                                                        | K80                                                                            |
| 01... | 1000 | 8.4                                                                   | 79                                                           | 6.7                                                                  | 17.0                                            | 8.3                                            | --                                                                        | --                                                                             |
| 01... | 1300 | 8.1                                                                   | 79                                                           | 6.7                                                                  | 17.5                                            | 8.8                                            | 220                                                                       | 120                                                                            |
| 01... | 1600 | 8.4                                                                   | 76                                                           | 6.8                                                                  | 18.0                                            | 9.8                                            | --                                                                        | --                                                                             |
| 01... | 1900 | 9.1                                                                   | 79                                                           | 6.7                                                                  | 17.5                                            | 9.4                                            | 460                                                                       | 140                                                                            |
| 01... | 2200 | 9.0                                                                   | 80                                                           | 7.0                                                                  | 18.0                                            | 8.8                                            | --                                                                        | --                                                                             |
| 02... | 0100 | 8.9                                                                   | 80                                                           | 6.9                                                                  | 17.5                                            | 8.2                                            | 300                                                                       | 110                                                                            |
| 02... | 0400 | 8.4                                                                   | 79                                                           | 6.9                                                                  | 17.5                                            | 8.6                                            | --                                                                        | --                                                                             |
| 02... | 0700 | 9.3                                                                   | 76                                                           | 6.9                                                                  | 17.5                                            | 7.5                                            | 580                                                                       | 320                                                                            |

| DATE  | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | PHOS-<br>PHORUS<br>ORTHO<br>TOTAL<br>(MG/L<br>AS P)<br>(70507) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDEDED<br>(MG/L)<br>(80154) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDEDED<br>(T/DAY)<br>(80155) |
|-------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| OCT   |                                                                 |                                                                 |                                                                 |                                                       |                                                                |                                                          |                                                                            |                                                                             |
| 31... | 0.010                                                           | 0.460                                                           | 0.050                                                           | 0.050                                                 | 0.030                                                          | 2.5                                                      | --                                                                         | --                                                                          |
| 31... | 0.010                                                           | 0.450                                                           | 0.040                                                           | 0.030                                                 | 0.030                                                          | 2.4                                                      | 26                                                                         | 0.59                                                                        |
| 31... | <0.010                                                          | 0.420                                                           | 0.020                                                           | 0.020                                                 | 0.020                                                          | 2.3                                                      | 23                                                                         | 0.53                                                                        |
| 31... | <0.010                                                          | 0.350                                                           | 0.010                                                           | 0.070                                                 | 0.020                                                          | 2.4                                                      | 23                                                                         | 0.52                                                                        |
| 31... | 0.010                                                           | 0.340                                                           | 0.010                                                           | 0.030                                                 | 0.020                                                          | 2.8                                                      | 18                                                                         | 0.40                                                                        |
| 31... | <0.010                                                          | 0.340                                                           | 0.020                                                           | 0.020                                                 | 0.030                                                          | 2.9                                                      | 28                                                                         | 0.63                                                                        |
| NOV   |                                                                 |                                                                 |                                                                 |                                                       |                                                                |                                                          |                                                                            |                                                                             |
| 01... | 0.010                                                           | 0.370                                                           | 0.020                                                           | 0.040                                                 | 0.030                                                          | 3.2                                                      | 24                                                                         | 0.54                                                                        |
| 01... | 0.010                                                           | 0.390                                                           | 0.030                                                           | 0.030                                                 | 0.030                                                          | 3.0                                                      | 30                                                                         | 0.66                                                                        |
| 01... | 0.010                                                           | 0.400                                                           | 0.030                                                           | 0.040                                                 | 0.030                                                          | 2.9                                                      | 28                                                                         | 0.64                                                                        |
| 01... | 0.010                                                           | 0.390                                                           | 0.020                                                           | 0.030                                                 | 0.030                                                          | 2.6                                                      | 27                                                                         | 0.61                                                                        |
| 01... | 0.010                                                           | 0.380                                                           | 0.010                                                           | 0.030                                                 | 0.020                                                          | 2.9                                                      | 23                                                                         | 0.50                                                                        |
| 01... | 0.010                                                           | 0.330                                                           | <0.010                                                          | 0.030                                                 | 0.020                                                          | 2.5                                                      | 24                                                                         | 0.54                                                                        |
| 01... | 0.010                                                           | 0.330                                                           | 0.010                                                           | 0.030                                                 | 0.020                                                          | 2.5                                                      | 20                                                                         | 0.49                                                                        |
| 01... | 0.010                                                           | 0.340                                                           | 0.010                                                           | 0.030                                                 | 0.020                                                          | 2.5                                                      | 26                                                                         | 0.63                                                                        |
| 02... | 0.010                                                           | 0.370                                                           | 0.010                                                           | 0.040                                                 | 0.020                                                          | 2.6                                                      | 28                                                                         | 0.67                                                                        |
| 02... | 0.010                                                           | 0.390                                                           | 0.010                                                           | 0.040                                                 | 0.030                                                          | 2.6                                                      | 29                                                                         | 0.66                                                                        |
| 02... | 0.010                                                           | 0.410                                                           | 0.020                                                           | 0.040                                                 | 0.030                                                          | 2.6                                                      | 33                                                                         | 0.83                                                                        |



WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES  
WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

YAZOO RIVER BASIN--Continued

HICKAHALA CREEK BASIN STUDY--Continued

07277715 SENATOBIA CREEK NEAR COMO, MS

| DATE  | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML)<br>(31625) | STREP-<br>TOCOCCI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML)<br>(31673) |
|-------|------|-----------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| OCT   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                           |                                                                               |
| 31... | 0600 | 3.6                                                                   | 96                                                           | 6.3                                                                  | 14.0                                            | 7.6                                            | 280                                                                       | 540                                                                           |
| 31... | 0900 | 3.6                                                                   | 96                                                           | 6.4                                                                  | 15.5                                            | 8.6                                            | --                                                                        | --                                                                            |
| 31... | 1200 | 3.6                                                                   | 93                                                           | 6.4                                                                  | 17.0                                            | 9.5                                            | 160                                                                       | 100                                                                           |
| 31... | 1500 | 3.6                                                                   | 94                                                           | 6.4                                                                  | 18.0                                            | 8.9                                            | --                                                                        | --                                                                            |
| 31... | 1800 | 3.6                                                                   | 95                                                           | 6.4                                                                  | 17.5                                            | 8.1                                            | K1500                                                                     | 2600                                                                          |
| 31... | 2100 | 3.6                                                                   | 95                                                           | 6.4                                                                  | 17.0                                            | 8.4                                            | --                                                                        | --                                                                            |
| 31... | 2400 | 3.6                                                                   | 96                                                           | 6.4                                                                  | 17.0                                            | 8.5                                            | 180                                                                       | 230                                                                           |
| NOV   |      |                                                                       |                                                              |                                                                      |                                                 |                                                |                                                                           |                                                                               |
| 01... | 0300 | 3.6                                                                   | 96                                                           | 6.3                                                                  | 17.0                                            | 8.4                                            | --                                                                        | --                                                                            |
| 01... | 0600 | 3.7                                                                   | 95                                                           | 6.3                                                                  | 16.5                                            | 7.5                                            | --                                                                        | 620                                                                           |
| 01... | 0900 | 3.7                                                                   | 94                                                           | 6.4                                                                  | 17.0                                            | 8.3                                            | --                                                                        | --                                                                            |
| 01... | 1200 | 3.7                                                                   | 95                                                           | 6.3                                                                  | 18.0                                            | 9.2                                            | 160                                                                       | 320                                                                           |
| 01... | 1500 | 4.8                                                                   | 95                                                           | 6.3                                                                  | 18.5                                            | 7.9                                            | --                                                                        | --                                                                            |
| 01... | 1800 | 4.8                                                                   | 98                                                           | 6.3                                                                  | 18.0                                            | 8.4                                            | K370                                                                      | 340                                                                           |
| 01... | 2100 | 4.8                                                                   | 99                                                           | 6.3                                                                  | 18.0                                            | 6.5                                            | --                                                                        | --                                                                            |
| 01... | 2400 | 4.8                                                                   | 97                                                           | 6.3                                                                  | 17.5                                            | 7.0                                            | 140                                                                       | 320                                                                           |
| 02... | 0300 | 4.8                                                                   | 96                                                           | 6.3                                                                  | 17.0                                            | 8.3                                            | --                                                                        | --                                                                            |
| 02... | 0600 | 5.8                                                                   | 94                                                           | 6.3                                                                  | 17.0                                            | 7.0                                            | 3100                                                                      | 4200                                                                          |

| DATE  | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | PHOS-<br>PHORUS<br>ORTHO<br>TOTAL<br>(MG/L<br>AS P)<br>(70507) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) | 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) |
|-------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------|
| OCT   |                                                                 |                                                                 |                                                                 |                                                       |                                                                |                                                          |                                                      |                                                                          |
| 31... | 0.010                                                           | 2.70                                                            | 0.010                                                           | 0.030                                                 | 0.040                                                          | 1.5                                                      | 32                                                   | 0.31                                                                     |
| 31... | 0.010                                                           | 2.60                                                            | 0.020                                                           | 0.020                                                 | 0.040                                                          | 1.5                                                      | 17                                                   | 0.17                                                                     |
| 31... | 0.010                                                           | 2.60                                                            | 0.010                                                           | 0.020                                                 | 0.040                                                          | 1.6                                                      | 17                                                   | 0.17                                                                     |
| 31... | 0.010                                                           | 2.50                                                            | 0.010                                                           | 0.020                                                 | 0.040                                                          | 1.7                                                      | 18                                                   | 0.17                                                                     |
| 31... | 0.010                                                           | 2.50                                                            | 0.010                                                           | 0.020                                                 | 0.040                                                          | 1.7                                                      | 16                                                   | 0.16                                                                     |
| 31... | 0.010                                                           | 2.60                                                            | 0.010                                                           | 0.020                                                 | 0.040                                                          | 1.8                                                      | 15                                                   | 0.15                                                                     |
| 31... | 0.010                                                           | 2.60                                                            | 0.020                                                           | 0.020                                                 | 0.040                                                          | 1.7                                                      | 25                                                   | 0.24                                                                     |
| NOV   |                                                                 |                                                                 |                                                                 |                                                       |                                                                |                                                          |                                                      |                                                                          |
| 01... | 0.010                                                           | 2.60                                                            | 0.020                                                           | 0.040                                                 | 0.040                                                          | 1.8                                                      | 12                                                   | 0.12                                                                     |
| 01... | 0.020                                                           | 2.60                                                            | 0.020                                                           | 0.020                                                 | 0.040                                                          | 1.7                                                      | 27                                                   | 0.27                                                                     |
| 01... | 0.010                                                           | 2.60                                                            | 0.010                                                           | 0.020                                                 | 0.040                                                          | 1.7                                                      | 15                                                   | 0.15                                                                     |
| 01... | 0.010                                                           | 2.50                                                            | 0.010                                                           | 0.020                                                 | 0.040                                                          | 1.8                                                      | 16                                                   | 0.16                                                                     |
| 01... | 0.010                                                           | 2.50                                                            | <0.010                                                          | 0.020                                                 | 0.040                                                          | 2.0                                                      | 13                                                   | 0.17                                                                     |
| 01... | 0.010                                                           | 2.50                                                            | 0.010                                                           | 0.020                                                 | 0.040                                                          | 2.1                                                      | 11                                                   | 0.14                                                                     |
| 01... | 0.010                                                           | 2.60                                                            | <0.010                                                          | <0.020                                                | 0.040                                                          | 2.1                                                      | 20                                                   | 0.26                                                                     |
| 01... | 0.010                                                           | 2.50                                                            | 0.010                                                           | <0.020                                                | 0.040                                                          | 2.2                                                      | 16                                                   | 0.21                                                                     |
| 02... | 0.010                                                           | 2.40                                                            | 0.010                                                           | 0.030                                                 | 0.040                                                          | 2.2                                                      | 21                                                   | 0.27                                                                     |
| 02... | 0.020                                                           | 2.30                                                            | 0.010                                                           | 0.040                                                 | 0.030                                                          | 2.8                                                      | 19                                                   | 0.30                                                                     |

## WATER QUALITY DATA, APRIL 1995 TO SEPTEMBER 1996

## NATIONAL WATER-QUALITY ASSESSMENT PROGRAM

## LOWER MISSISSIPPI EMBAYMENT STUDY

07026040 OBION RIVER AT HWY 51 NEAR OBION, TN

| DATE           | TIME | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) |
|----------------|------|-------------------------------------------------|-----------------------------------------|------------------------------------------------|------------------------------------|-----------------------------------|
| SEP 1995 22... | 1030 | 778                                             | 81                                      | 6.5                                            | 18.0                               | 8.2                               |
| FEB 1996 27... | 1700 | 1790                                            | 91                                      | 6.5                                            | 16.5                               | 6.8                               |
| MAY 21...      | 1655 | --                                              | 109                                     | 6.9                                            | 26.0                               | 8.2                               |
| AUG 13...      | 1555 | --                                              | 82                                      | 6.5                                            | 25.5                               | 7.5                               |

| DATE           | CALCIUM BOT MAT <63U WS FIELD PERCENT (34830) | MAGNE-SIUM BOT MAT <63U WS FIELD PERCENT (34900) | SODIUM BOT MAT <63U WS FIELD PERCENT (34960) | POTAS-SIUM BOT MAT <63U WS FIELD PERCENT (34940) | SULFUR BOT MAT <63U WS FIELD (UG/G) (34970) | PHOS-PHORUS BOT MAT <63U WS FIELD PERCENT (34935) | ALUM-INUM BOT MAT <63U WS FIELD PERCENT (34790) | ANTI-MONY BOT MAT <63U WS FIELD (UG/G) (34795) | ARSENIC BOT MAT <63U WS FIELD (UG/G) (34800) | BARIUM BOT MAT <63U WS FIELD (UG/G) (34805) | BERYL-LIUM BOT MAT <63U WS FIELD (UG/G) (34810) | BISMUTH BOT MAT <180UWS FIELD (UG/G) (34816) |
|----------------|-----------------------------------------------|--------------------------------------------------|----------------------------------------------|--------------------------------------------------|---------------------------------------------|---------------------------------------------------|-------------------------------------------------|------------------------------------------------|----------------------------------------------|---------------------------------------------|-------------------------------------------------|----------------------------------------------|
| SEP 1995 22... | 0.39                                          | 0.30                                             | 0.74                                         | 1.4                                              | <0.05                                       | 0.06                                              | 4.6                                             | 0.3                                            | 7.3                                          | 530                                         | 1                                               | <10                                          |

| DATE           | CADMIUM BOT MAT <63U WS FIELD (UG/G) (34825) | CERIUM BOT MAT <63U WS FIELD (UG/G) (34835) | CHRO-MIUM BOT MAT <63U WS FIELD (UG/G) (34840) | COBALT BOT MAT <63U WS FIELD (UG/G) (34845) | COPPER BOT MAT <63U WS FIELD (UG/G) (34850) | EURO-PYUM BOT MAT <63U WS FIELD (UG/G) (34855) | GALLIUM BOT MAT <63U WS FIELD (UG/G) (34860) | GOLD BOT MAT <63U WS FIELD (UG/G) (34870) | HOLMIUM BOT MAT <63U WS FIELD (UG/G) (34875) | IRON BOT MAT <63U WS FIELD PERCENT (34880) | LANTHA-NUM BOT MAT <63U WS FIELD (UG/G) (34885) | LEAD BOT MAT <63U WS FIELD (UG/G) (34890) |
|----------------|----------------------------------------------|---------------------------------------------|------------------------------------------------|---------------------------------------------|---------------------------------------------|------------------------------------------------|----------------------------------------------|-------------------------------------------|----------------------------------------------|--------------------------------------------|-------------------------------------------------|-------------------------------------------|
| SEP 1995 22... | 0.2                                          | 70                                          | 38                                             | 11                                          | 12                                          | <2                                             | 8                                            | <8                                        | <4                                           | 2.0                                        | 35                                              | 14                                        |

| DATE           | LITHIUM BOT MAT <63U WS FIELD (UG/G) (34895) | MANGA-NESE BOT MAT <63U WS FIELD (UG/G) (34905) | MERCURY BOT MAT <63U WS FIELD (UG/G) (34910) | MOLYB-DENUM BOT MAT <63U WS FIELD (UG/G) (34915) | NEODYM-IUM BOT MAT <63U WS FIELD (UG/G) (34920) | NICKEL BOT MAT <63U WS FIELD (UG/G) (34925) | NIOBIUM BOT MAT <63U WS FIELD (UG/G) (34930) | SCAN-DIUM BOT MAT <63U WS FIELD (UG/G) (34945) | SELE-NIUM BOT MAT <63U WS FIELD (UG/G) (34950) | SILVER BOT MAT <63U WS FIELD (UG/G) (34955) | STRON-TIUM BOT MAT <63U WS FIELD (UG/G) (34965) | TANTA-LUM BOT MAT <63U WS FIELD (UG/G) (34975) |
|----------------|----------------------------------------------|-------------------------------------------------|----------------------------------------------|--------------------------------------------------|-------------------------------------------------|---------------------------------------------|----------------------------------------------|------------------------------------------------|------------------------------------------------|---------------------------------------------|-------------------------------------------------|------------------------------------------------|
| SEP 1995 22... | 20                                           | 1200                                            | 0.03                                         | <2                                               | 30                                              | 17                                          | <4                                           | 6                                              | 0.3                                            | 0.2                                         | 100                                             | <40                                            |

| DATE           | THORIUM BOT MAT <63U WS FIELD (UG/G) (34980) | TIN BOT MAT <63U WS FIELD (UG/G) (34985) | TITA-NIUM, SED, BM WS, <63U DRY WGT REC PERCENT (49274) | URANIUM BOT MAT <63U WS FIELD (UG/G) (35000) | VANA-DIUM BOT MAT <63U WS FIELD (UG/G) (35005) | YTTER-BIUM BOT MAT <63U WS FIELD (UG/G) (35015) | YTTRIUM BOT MAT <63U WS FIELD (UG/G) (35010) | ZINC BOT MAT <63U WS FIELD (UG/G) (35020) | CARBON, ORGANIC SED, BM WS, <63U DW, REC (PER-CENT) (49266) | CARBON, ORGANIC SED, BM WS, <2MM DW, REC (G/KG) (49271) | CARBON, INORG, SED, BM WS, <63U DW, REC (CENT) (49269) | CARBON, INORG, SED, BM WS, <2MM DW, REC (G/KG) (49270) |
|----------------|----------------------------------------------|------------------------------------------|---------------------------------------------------------|----------------------------------------------|------------------------------------------------|-------------------------------------------------|----------------------------------------------|-------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|
| SEP 1995 22... | 8                                            | <10                                      | 0.330                                                   | 3.7                                          | 56                                             | 2                                               | 21                                           | 52                                        | 0.82                                                        | 8.00                                                    | 0.03                                                   | 0.200                                                  |

| DATE           | PCB, SED, BM WS, <2MM DW, REC (UG/KG) (49459) | ALPHA-BHC, SED, BM WS, <2MM DW, REC (UG/KG) (49338) | BETA-BHC, SED, BM WS, <2MM DW, REC (UG/KG) (49339) | ALDRIN, SED, BM WS, <2MM DW, REC (UG/KG) (49319) | CIS-CHLOR-DANE, SED, BM WS, <2MM DW, REC (UG/KG) (49320) | OXY-CHLOR-DANE, SED, BM WS, <2MM DW, REC (UG/KG) (49318) | TRANS-CHLOR-DANE, SED, BM WS, <2MM DW, REC (UG/KG) (49321) | CHLORO-NEB, SED, BM WS, <2MM DW, REC (UG/KG) (49322) | DCPA, SED, BM WS, <2MM DW, REC (UG/KG) (49324) | O, P'-DDD, SED, BM WS, <2MM DW, REC (UG/KG) (49325) | P, P'-DDD, SED, BM WS, <2MM DW, REC (UG/KG) (49326) | O, P'-DDE, SED, BM WS, <2MM DW, REC (UG/KG) (49327) |
|----------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|--------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------|------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|
| SEP 1995 22... | <50                                           | <1.00                                               | <1.00                                              | <1.00                                            | <1.00                                                    | <1.00                                                    | <1.00                                                      | <5.00                                                | <5.00                                          | <1.00                                               | <1.00                                               | <1.00                                               |

| DATE           | P, P'-DDE, SED, BM WS, <2MM DW, REC (UG/KG) (49328) | O, P'-DDT, SED, BM WS, <2MM DW, REC (UG/KG) (49329) | P, P'-DDT, SED, BM WS, <2MM DW, REC (UG/KG) (49330) | DIEL-DRIN, SED, BM WS, <2MM DW, REC (UG/KG) (49331) | ENDO-SULFAN I, SED, BM WS, <2MM DW, REC (UG/KG) (49332) | ENDRIN, SED, BM WS, <2MM DW, REC (UG/KG) (49335) | HEPTA-CHLOR, SED, BM WS, <2MM DW, REC (UG/KG) (49341) | HEPTA-CHLOR EPOXIDE, SED, BM WS, <2MM DW, REC (UG/KG) (49342) | ISODRIN, SED, BM WS, <2MM DW, REC (UG/KG) (49344) | LINDANE, SED, BM WS, <2MM DW, REC (UG/KG) (49345) | METHOXY CHLOR, O, P'-, SED, BM WS, <2MM DW, REC (UG/KG) (49347) | METHOXY CHLOR, P, P'-, SED, BM WS, <2MM DW, REC (UG/KG) (49346) |
|----------------|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|
| SEP 1995 22... | <1.00                                               | <2.00                                               | <2.00                                               | <1.00                                               | <1.00                                                   | <2.00                                            | <1.00                                                 | <1.00                                                         | <1.00                                             | <1.00                                             | <5.00                                                           | <5.00                                                           |

| DATE           | MIREX, SED, BM WS, <2MM DW, REC (UG/KG) (49348) | CIS-NONA-CHLOR, SED, BM WS, <2MM DW, REC (UG/KG) (49316) | TRANS-NONA-CHLOR, SED, BM WS, <2MM DW, REC (UG/KG) (49317) | CIS-PER-METHRIN, SED, BM WS, <2MM DW, REC (UG/KG) (49349) | TRANS-PER-METHRIN, SED, BM WS, <2MM DW, REC (UG/KG) (49350) | TOXA-PHENE, SED, BM WS, <2MM DW, REC (UG/KG) (49351) | ACENAPH-THENE, SED, BM WS, <2MM DW, REC (UG/KG) (49429) | ACENAPH-THYLENE, SED, BM WS, <2MM DW, REC (UG/KG) (49428) | ACRI-DINE, SED, BM WS, <2MM DW, REC (UG/KG) (49430) | PHENOL C8-ALKYL, SED, BM WS, <2MM DW, REC (UG/KG) (49424) | ANTHRA-CENE, SED, BM WS, <2MM DW, REC (UG/KG) (49434) | 9,10-ANTHRA-QUINONE, SED, BM WS, <2MM DW, REC (UG/KG) (49437) |
|----------------|-------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------|
| SEP 1995 22... | <1.00                                           | <1.00                                                    | <1.00                                                      | <5.00                                                     | <5.00                                                       | <200                                                 | <50                                                     | <50                                                       | <50                                                 | <50                                                       | E25                                                   | <50                                                           |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

WATER QUALITY DATA, APRIL 1995 TO SEPTEMBER 1996

## NATIONAL WATER-QUALITY ASSESSMENT PROGRAM

## LOWER MISSISSIPPI EMBAYMENT STUDY--Continued

07026040 OBION RIVER AT HWY 51 NEAR OBION, TN--Continued

## BED SEDIMENT DATA--Continued

| DATE              | AZO-BENZENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49443)                    | BENZ(A)<br>ANTHRA-<br>CENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49436)     | BENZOCINOLINE<br>BED MAT<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49468)                   | BENZOB<br>FLUOR-<br>ANTHENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49458)     | BENZO K<br>FLUOR-<br>ANTHENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49397)    | BENZO(G<br>HI)PERY<br>LENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49408)     | BENZO<br>(A)<br>PYRENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49389)        | 2,2'-BI<br>QUINO-<br>LINE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49391)     | METHANE<br>2CHLORO<br>ETHOXY<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49401) | PHTHALA<br>TE, BIS2<br>ETHHEXL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49426) | 4-BROMO<br>PHNPHNL<br>ETHER<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49454)                | PHTHALA<br>TEBUTYL<br>BENZYL-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49427) |
|-------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| SEP 1995<br>22... | <50                                                                                    | E37                                                                                    | <50                                                                                     | E49                                                                                     | E27                                                                                     | <50                                                                                    | E28                                                                                   | <50                                                                                   | <50                                                                                  | 64                                                                                     | <50                                                                                                | E45                                                                                   |
| DATE              | CARBA-<br>ZOLE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49449)                 | M-CRE-<br>SOL, 4-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49422)   | NAPHTHAL<br>ENE, 2-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49407)  | PHENOL,<br>2CHLORO<br>BED MAT<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49467)              | 4CHLORO<br>PHNPHN<br>LEATHER<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49455)    | CHRY-<br>SENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49450)                  | P-<br>CRESOL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49451)                  | DIBENZ<br>(AH), AN<br>THRACEN<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49461) | THIOPH<br>ENE, DI-<br>BENZO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49452) | PHTHAL-<br>ATE, D<br>DIBUTYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49381)   | BENZENE<br>O-DI-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49439)                | BENZENE<br>M-DI-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49441)   |
| SEP 1995<br>22... | <50                                                                                    | <50                                                                                    | <50                                                                                     | <50                                                                                     | <50                                                                                     | E30                                                                                    | 430                                                                                   | <50                                                                                   | <50                                                                                  | 62                                                                                     | <50                                                                                                | <50                                                                                   |
| DATE              | BENZENE<br>P-DI-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49442)    | PHTHAL-<br>ATE, D<br>IETHYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49383)    | NAPHTHAL<br>ENE, 12<br>DIMETHYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49403) | NAPHTHAL<br>ENE, 16<br>DIMETHYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49404) | NAPHTHAL<br>ENE, 26<br>DIMETHYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49406) | 3,5-<br>XYLENOL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49421)                | PHTHAL-<br>ATE, DI-<br>METHYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49384) | TOLUENE<br>2,4-DI-<br>NITRO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49395)  | TOLUENE<br>2,6-DI-<br>NITRO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49396) | PHTHAL<br>ATE, D<br>IOCTYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49382)     | NAPHTHAL<br>ENE, 2-<br>ETHYL-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49402)              | FLUOR-<br>M-DI-<br>ANTHENE<br>BED MAT<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49466)    |
| SEP 1995<br>22... | <50                                                                                    | E22                                                                                    | <50                                                                                     | <50                                                                                     | <50                                                                                     | <50                                                                                    | <50                                                                                   | <50                                                                                   | <50                                                                                  | <50                                                                                    | <50.0                                                                                              | E43                                                                                   |
| DATE              | 9H-FLU-<br>ORENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49399)               | BENZENE<br>HEXA-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49343)    | INDENO<br>123-CD<br>PYRENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49390)      | ISOPHOR<br>ONE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49400)                  | ISO-<br>QUINO-<br>LINE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49394)         | ANTHRA-<br>CENE, 2-<br>METHYL-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49435) | 9H-FLU-<br>ORENE,<br>1METHYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49398)  | PHENAN<br>THRENE<br>1METHYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49410)   | PYRENE,<br>1-<br>METHYL,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49388)     | 4HCYPEN<br>PHENAN<br>THRENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49411)    | NAPHTH-<br>ALENE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49402)                          | BENZENE<br>NITRO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49444)             |
| SEP 1995<br>22... | <50                                                                                    | E11.0                                                                                  | <50                                                                                     | <50                                                                                     | <50                                                                                     | <50                                                                                    | <50                                                                                   | <50                                                                                   | <50                                                                                  | <50                                                                                    | <50                                                                                                | <50                                                                                   |
| DATE              | DPROPYL<br>AMINE, N<br>NITROSO<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49431) | DIPHNYL<br>AMINE, N<br>NITROSO<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49433) | PENTA-<br>CHLORO-<br>ANISOLE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49460)    | BENZENE<br>PNTCHLR<br>NITRO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49446)    | PHENAN<br>THRENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49409)                | PHENAN-<br>THRI-<br>DINE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49393)       | PHENOL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49413)                        | PYRENE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49387)                       | QUINO-<br>LINE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49392)              | BENZENE<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49438)             | NAPHTHAL<br>124TRI-<br>ENE, 236<br>TRIMETH<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49405) |                                                                                       |

## FISH LIVER DATA

| DATE              | ALUMI-<br>NUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49237) | ANTI-<br>MONY,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49246)  | ARSENIC<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49247) | BARIUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49238)          | BERYL-<br>LIUM-<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49248) | BORON,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49239)         | CADMIUM<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49249) | CHROM-<br>IUM-<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49240)  | COBALT,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49250) | COPPER,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49241) | IRON,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49242) |
|-------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|
| SEP 1995<br>22... | 9.2                                                                        | <0.1                                                                        | 0.4                                                                 | 0.1                                                                          | <0.1                                                                        | 0.8                                                                        | 4.2                                                                 | <0.5                                                                        | 0.2                                                                 | 62                                                                  | 770                                                               |
| DATE              | LEAD,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49251)          | MANGAN-<br>ESE,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49243) | MERCURY<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49258) | MOLYB-<br>DENUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49252) | NICKEL,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49253)         | SELEN-<br>IUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49254) | SILVER,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49255) | STRON-<br>TIUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49244) | URANIUM<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49257) | VANA-<br>DIUM<br>BIO TIS<br>DRY WGT<br>REC<br>(UG/G)<br>(49465)     | ZINC,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49245) |
| SEP 1995<br>22... | <0.1                                                                       | 7.5                                                                         | 0.6                                                                 | 1.4                                                                          | <0.1                                                                        | 7.6                                                                        | 0.7                                                                 | 0.4                                                                         | <0.1                                                                | 2.0                                                                 | 350                                                               |

## FISH TISSUE DATA

| DATE              | PCB,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49354) | ALPHA-<br>BHC,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49366) | BETA-<br>BHC,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49365) | DELTA-<br>BHC,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49364) | ALDRIN,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49353) | CIS-<br>CHLOR-<br>DANE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49380) | OXY-<br>CHLOR-<br>DANE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49357) | TRANS-<br>CHLOR-<br>DANE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49379) | DCPA,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49378) | O,P'-<br>DDD,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49374) |
|-------------------|-----------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------|
| SEP 1995<br>22... | 150                                                       | <5.00                                                               | 5.40                                                               | <5.00                                                               | <5.00                                                        | 6.40                                                                         | <5.00                                                                        | <5.00                                                                          | <5.00                                                      | <5.00                                                              |

## WATER QUALITY DATA, APRIL 1995 TO SEPTEMBER 1996

## NATIONAL WATER-QUALITY ASSESSMENT PROGRAM

## LOWER MISSISSIPPI EMBAYMENT STUDY--Continued

07026040 OBION RIVER AT HWY 51 NEAR OBION, TN--Continued

## FISH TISSUE DATA--Continued

| DATE              | P,P'-<br>DDD,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49375)               | O,P'-<br>DDE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49373)               | P,P'-<br>DDE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49372)               | O,P'-<br>DDT,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49377) | P,P'-<br>DDT,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49376)           | DIEL-<br>DRIN,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49371)            | ENDRIN,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49370)         | HEPTA-<br>CHLOR,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49369)            | HEPTA-<br>CHLOR<br>EPOXIDE<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49368) | LINDANE<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49363) |
|-------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------|
| SEP 1995<br>22... | E10.0                                                                            | <5.00                                                                            | 36.0                                                                             | <5.00                                                              | <5.00                                                                        | 5.30                                                                           | <5.00                                                                | <5.00                                                                            | <5.00                                                                           | <5.00                                                        |
| DATE              | METHOXY<br>CHLOR,<br>O,P'-,<br>BIOTA,<br>WH ORG<br>WW, REC<br>PERCENT<br>(49289) | METHOXY<br>CHLOR,<br>O,P'-,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49362) | METHOXY<br>CHLOR,<br>P,P'-,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49361) | MIREX,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49360)        | CIS-<br>NONA-<br>CHLOR,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49359) | TRANS-<br>NONA-<br>CHLOR,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49358) | TOXA-<br>PHENE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49355) | BENZENE<br>HEXA-<br>CHLORO-<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49367) | PENTA<br>CHLORO<br>ANISOLE<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49356) |                                                              |
| SEP 1995<br>22... | 6.10                                                                             | <5.00                                                                            | <5.00                                                                            | <5.00                                                              | <5.00                                                                        | 9.80                                                                           | <200                                                                 | <5.00                                                                            | <5.00                                                                           |                                                              |

07029500 HATCHIE RIVER AT BOLIVAR, TN

| DATE              | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-------------------|------|-----------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| OCT 1995<br>17... | 1230 | 307                                                                   |                                                              | 68                                                                   | 6.4                                             | 8.7                                            |
| FEB 1996<br>28... | 0910 | 3590                                                                  |                                                              | 64                                                                   | 6.5                                             | 6.8                                            |
| MAY<br>22...      | 0820 | 597                                                                   |                                                              | 71                                                                   | 6.3                                             | 5.9                                            |
| AUG<br>14...      | 0830 | 421                                                                   |                                                              | 74                                                                   | 6.2                                             | 6.3                                            |

07030050 HATCHIE RIVER AT RIALTO, TN

| DATE              | TIME |
|-------------------|------|
| OCT 1995<br>17... | 1215 |

## BED SEDIMENT DATA

| DATE              | CALCIUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34830) | MAGNE-<br>SIUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34900) | SODIUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34960)       | POTAS-<br>SIUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34940) | SULFUR<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34970)         | PHOS-<br>PHORUS<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34935) | ALUM-<br>INUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34790) | ANTI-<br>MONY<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34795) | ARSENIC<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34800)           | BARIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34805)                | BERYL-<br>LIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34810)     | BISMUTH<br>BOT MAT<br><180UWS<br>FIELD<br>(UG/G)<br>(34816)              |
|-------------------|--------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------|
| OCT 1995<br>17... | 0.38                                                         | 0.37                                                                | 0.72                                                              | 1.5                                                                 | <0.05                                                              | 0.06                                                                 | 5.0                                                                | 0.7                                                               | 8.8                                                                   | 600                                                                       | 1                                                                      | <10                                                                      |
| DATE              | CADMIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34825)  | CERIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34835)          | CHRO-<br>MIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34840) | COBALT<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34845)          | COPPER<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34850)         | EURO-<br>PIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34855)    | GALLIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34860)        | GOLD<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34870)          | HOLMIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34875)           | IRON<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34880)                 | LANTHA-<br>NIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34885)    | LEAD<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34890)                 |
| OCT 1995<br>17... | 0.1                                                          | 64                                                                  | 44                                                                | 11                                                                  | 13                                                                 | <2                                                                   | 10                                                                 | <8                                                                | <4                                                                    | 2.5                                                                       | 29                                                                     | 15                                                                       |
| DATE              | LITHIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34895)  | MANGA-<br>NESE<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34905)  | MERCURY<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34910)       | MOLYB-<br>DENUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34915) | NEODYM-<br>IUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34920) | NICKEL<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34925)           | NIOBIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34930)        | SCAN-<br>DIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34945) | SELE-<br>NIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34950)     | SILVER<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34955)                | STRON-<br>TIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34965)     | TANTA-<br>LUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34975)        |
| OCT 1995<br>17... | 20                                                           | 960                                                                 | 0.03                                                              | <2                                                                  | 26                                                                 | 22                                                                   | 5                                                                  | 7                                                                 | 0.2                                                                   | 0.1                                                                       | 110                                                                    | <40                                                                      |
| DATE              | THORIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34980)  | TIN<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34985)             | TITA-<br>NIUM<br>SED, BM<br>DRY WGT<br>PERCENT<br>(49274)         | URANIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(35000)         | VANA-<br>DIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(35005)  | YTTER-<br>BIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(35015)   | YTTRIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(35010)        | ZINC<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(35020)          | CARBON,<br>ORGANIC<br>SED, BM<br>DW, REC<br>(PER-<br>CENT)<br>(49266) | CARBON,<br>ORGANIC<br>SED, BM<br>WS, <63U<br>DW, REC<br>(G/KG)<br>(49271) | CARBON,<br>SED, BM<br>WS, <63U<br>DW, REC<br>(PER-<br>CENT)<br>(49269) | CARBON,<br>INORG,<br>SED, BM<br>WS, <63U<br>DW, REC<br>(G/KG)<br>(49270) |
| OCT 1995<br>17... | 12                                                           | <10                                                                 | 0.290                                                             | 3.6                                                                 | 66                                                                 | 2                                                                    | 17                                                                 | 57                                                                | 0.65                                                                  | 6.50                                                                      | 0.01                                                                   | <0.100                                                                   |

## WATER QUALITY DATA, APRIL 1995 TO SEPTEMBER 1996

## NATIONAL WATER-QUALITY ASSESSMENT PROGRAM

## LOWER MISSISSIPPI EMBAYMENT STUDY--Continued

## 07030050 HATCHIE RIVER AT RIALTO, TN--Continued

## BED SEDIMENT DATA--Continued

| DATE              | PCB,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49459)                           | ALPHA-<br>BHC, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49338)                    | BETA-<br>BHC, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49339)                       | ALDRIN,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49319)                          | CIS-<br>CHLOR-<br>DANE, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49320)             | OXY-<br>CHLOR-<br>DANE, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49318)           | TRANS-<br>CHLOR-<br>DANE, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49321)       | CHLORO-<br>NEB, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49322)                   | DCPA, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49324)                            | O, P'-<br>DDD, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49325)                    | P, P'-<br>DDD, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49326)                      | O, P'-<br>DDE, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49327)                  |
|-------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| OCT 1995<br>17... | <50                                                                                    | <1.00                                                                                  | <1.00                                                                                    | <1.00                                                                                    | <1.00                                                                                    | <1.00                                                                                  | <1.00                                                                                | <5.00                                                                                  | <5.00                                                                                 | <1.00                                                                                  | <1.00                                                                                    | <1.00                                                                                |
| DATE              | P, P'-<br>DDE, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49328)                    | O, P'-<br>DDT, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49329)                    | P, P'-<br>DDT, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49330)                      | DIEL-<br>DRIN, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49331)                      | ENDO-<br>SULFAN<br>I, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49332)               | ENDRIN,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49335)                        | HEPTA-<br>CHLOR, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49341)                | HEPTA-<br>CHLOR<br>EPOXIDE, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49342)       | ISODRIN,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49344)                      | LINDANE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49345)                       | METHOXY<br>CHLOR,<br>O, P'-,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49347)     | METHOXY<br>CHLOR,<br>P, P'-,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49346) |
| OCT 1995<br>17... | <1.00                                                                                  | <2.00                                                                                  | <2.00                                                                                    | <1.00                                                                                    | <1.00                                                                                    | <2.00                                                                                  | <1.00                                                                                | <1.00                                                                                  | <1.00                                                                                 | <1.00                                                                                  | <5.00                                                                                    | <5.00                                                                                |
| DATE              | MIREX,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49348)                         | CIS-<br>NONA-<br>CHLOR, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49316)           | TRANS-<br>NONA-<br>CHLOR, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49317)           | CIS-<br>PER-<br>METHRIN<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49349)          | TRANS-<br>PER-<br>METHRIN<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49350)        | TOXA-<br>PHENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49351)                 | ACENAPH<br>THENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49429)             | ACENAPH<br>THYLENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49428)             | ACRI-<br>DINE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49430)                 | PHENOL<br>C8-<br>ALKYL-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49424)        | ANTHRA-<br>CENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49434)                  | 9,10-<br>ANTHRA-<br>QUINONE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49437)  |
| OCT 1995<br>17... | <1.00                                                                                  | <1.00                                                                                  | <1.00                                                                                    | <5.00                                                                                    | <5.00                                                                                    | <200                                                                                   | E8.0                                                                                 | E15                                                                                    | <50                                                                                   | <50                                                                                    | E12                                                                                      | <50                                                                                  |
| DATE              | AZO-<br>BENZENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49443)                | BENZ(A)<br>ANTHRA-<br>CENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49436)     | BENZOCINOLINE<br>BED MAT<br>WS, <2MM<br>DRY WGT<br>REC<br>(UG/KG)<br>(49468)             | BENZOB-<br>FLUOR-<br>ANTHENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49458)     | BENZO K<br>FLUOR-<br>ANTHENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49397)     | BENZO(G<br>HI)PERY-<br>LENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49408)    | BENZO<br>(A)PERY-<br>LENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49389)    | 2,2'-BI-<br>QUINO-<br>LINE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49391)    | METHANE<br>2CHLORO<br>ETHOXY<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49401)  | PTHALA-<br>TE, BIS2<br>ETHHEXL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49426) | 4-BROMO<br>PHNPHNL<br>ETHER<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49454)      | PTHALA-<br>TEBUTYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49427)           |
| OCT 1995<br>17... | <50                                                                                    | E35                                                                                    | <50                                                                                      | E43                                                                                      | E21                                                                                      | <50                                                                                    | <50                                                                                  | <50                                                                                    | <50                                                                                   | 100                                                                                    | <50                                                                                      | 61                                                                                   |
| DATE              | CARBA-<br>ZOLE, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49449)                   | M-CRE-<br>SOL, 4-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49422)   | NAPHTHAL-<br>ENE, 2-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49407)  | PHENOL,<br>2CHLORO<br>BED MAT<br>WS <2MM<br>DRY WGT<br>REC<br>(UG/KG)<br>(49467)         | 4CHLORO<br>PHNPHN<br>LETHR<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49455)       | CHRY-<br>SENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49450)                  | P-<br>CRESOL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49451)                 | DIBENZ<br>(AH), AN-<br>THRACEN<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49461) | THIOPH-<br>ENE, DI-<br>BENZO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49452) | PTHAL-<br>ATE, D<br>DIBUTYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49381)    | BENZENE<br>O-DI-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49439)      | BENZENE<br>M-DI-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49441)  |
| OCT 1995<br>17... | <50                                                                                    | <50                                                                                    | <50                                                                                      | <50                                                                                      | <50                                                                                      | E23                                                                                    | 260                                                                                  | <50                                                                                    | <5.0                                                                                  | 60                                                                                     | <50                                                                                      | <50                                                                                  |
| DATE              | BENZENE<br>P-DI-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49442)    | PTHAL-<br>ATE, D<br>IETHYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49383)     | NAPHTHAL-<br>ENE, 12<br>DIMETHYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49403) | NAPHTHAL-<br>ENE, 16<br>DIMETHYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49404) | NAPHTHAL-<br>ENE, 26<br>DIMETHYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49406) | 3,5-<br>XYLENOL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49421)                | PTHAL-<br>ATE, DI-<br>METHYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49384) | TOLUENE<br>2,4-DI-<br>NITRO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49395)   | TOLUENE<br>2,6-DI-<br>NITRO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49396)  | PTHAL-<br>ATE, D<br>IOCTYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49382)     | NAPHTHAL-<br>ENE, 2-<br>ETHYL-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49348)   | FLUOR-<br>ANTHENE<br>BED MAT<br>WS <2MM<br>DRY WGT<br>REC<br>(UG/KG)<br>(49466)      |
| OCT 1995<br>17... | <50                                                                                    | E24                                                                                    | <50                                                                                      | <50                                                                                      | E13                                                                                      | <50                                                                                    | <50                                                                                  | <50                                                                                    | <50                                                                                   | <50                                                                                    | <50.0                                                                                    | E34                                                                                  |
| DATE              | 9H-FLU-<br>ORENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49399)               | BENZENE<br>HEXA-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49343)    | INDENO<br>123-CD<br>PYRENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49390)       | ISOPHOR-<br>ONE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49400)                  | ISO-<br>QUINO-<br>LINE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49394)          | ANTHRA-<br>CENE, 2-<br>METHYL-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49435) | 9H-FLU-<br>ORENE,<br>1METHYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49398) | PHENAN-<br>THRENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49410)              | PYRENE,<br>1-<br>METHYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49388)       | 4HCYPEN<br>PHENAN-<br>THRENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49411)   | NAPHTH-<br>ALENE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49402)                | BENZENE<br>NITRO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49444)            |
| OCT 1995<br>17... | <5.0                                                                                   | <50.0                                                                                  | <50                                                                                      | <50                                                                                      | <50                                                                                      | <50                                                                                    | <50                                                                                  | <50                                                                                    | <50                                                                                   | E20                                                                                    | E13                                                                                      | <50                                                                                  |
| DATE              | DPROPYL<br>AMINE, N<br>NITROSO<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49431) | DIPHNYL<br>AMINE, N<br>NITROSO<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49433) | PENTA-<br>CHLORO-<br>ANISOLE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49460)     | BENZENE<br>PNTCHLR<br>NITRO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49446)     | PHENAN-<br>THRENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49409)                | PHENAN-<br>THRI-<br>DINE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49393)       | PHENOL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49413)                       | PYRENE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49387)                        | QUINO-<br>LINE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49392)               | BENZENE<br>124TRI-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49438)  | NAPHTHAL-<br>ENE, 236<br>TRIMETH<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49405) |                                                                                      |
| OCT 1995<br>17... | <50                                                                                    | <50                                                                                    | <50                                                                                      | <50                                                                                      | E10                                                                                      | <50                                                                                    | E11                                                                                  | E36                                                                                    | <50                                                                                   | <50                                                                                    | <50                                                                                      |                                                                                      |



## WATER QUALITY DATA, APRIL 1995 TO SEPTEMBER 1996

## NATIONAL WATER-QUALITY ASSESSMENT PROGRAM

## LOWER MISSISSIPPI EMBAYMENT STUDY--Continued

## 07030050 HATCHIE RIVER AT RIALTO, TN--Continued

## FISH LIVER DATA

| DATE              | ALUMI-<br>NUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49237) | ANTI-<br>MONY,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49246)  | ARSENIC<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49247) | BARIUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49238)          | BERYL-<br>LIUM-<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49248) | BORON,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49239)         | CADMIUM<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49249) | CHROM-<br>IUM-<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49240)  | COBALT,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49250) | COPPER,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49241) | IRON,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49242) |
|-------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|
| OCT 1995<br>17... | 23                                                                         | <0.2                                                                        | 0.3                                                                 | 0.2                                                                          | <0.2                                                                        | 0.5                                                                        | 2.8                                                                 | 0.6                                                                         | 0.3                                                                 | 93                                                                  | 660                                                               |
| DATE              | LEAD,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49251)          | MANGAN-<br>ESE,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49243) | MERCURY<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49258) | MOLYB-<br>DENUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49252) | NICKEL,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49253)         | SELEN-<br>IUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49254) | SILVER,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49255) | STRON-<br>TIUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49244) | URANIUM<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49257) | VANA-<br>DIUM,<br>BIO TIS<br>DRY WGT<br>REC<br>(UG/G)<br>(49465)    | ZINC,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49245) |
| OCT 1995<br>17... | <0.2                                                                       | 10                                                                          | 0.8                                                                 | 1.1                                                                          | <0.2                                                                        | 5.6                                                                        | 0.6                                                                 | 0.6                                                                         | <0.2                                                                | 2.6                                                                 | 790                                                               |

## FISH TISSUE DATA

|                   | PCB,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49354)           | ALPHA-<br>BHC,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49366)               | BETA-<br>BHC,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49365)                | DELTA-<br>BHC,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49364) | ALDRIN,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49353)                 | CIS-<br>CHLOR-<br>DANE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49380)   | OXY-<br>CHLOR<br>DANE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49357) | TRANS-<br>CHLOR-<br>DANE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49379)   | DCPA,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49378)                      | O, P'-<br>DDD,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49374) |
|-------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------|
| OCT 1995<br>17... | 320                                                                 | <5.00                                                                             | <5.00                                                                             | <9.00                                                               | <5.00                                                                        | 15.0                                                                           | <5.00                                                                       | 10.0                                                                             | <7.00                                                                           | <16.0                                                               |
| DATE              | O, P'-<br>DDE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49373) | P, P'-<br>DDE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49372)               | O, P'-<br>DDT,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49377)               | P, P'-<br>DDT,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49376) | DIEL-<br>DRIN,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49371)          | ENDRIN,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49370)                   | HEPTA-<br>CHLOR,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49369)       | HEPTA-<br>CHLOR<br>EPOXIDE<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49368)  | LINDANE<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49363)                    |                                                                     |
| OCT 1995<br>17... | <6.00                                                               | 220                                                                               | <6.00                                                                             | 5.50                                                                | 27.0                                                                         | <43.0                                                                          | <6.00                                                                       | <5.00                                                                            | <5.00                                                                           |                                                                     |
| DATE              | LIPIDS,<br>BIOTA,<br>WH ORG<br>WW, REC<br>PERCENT<br>(49289)        | METHOXY<br>CHLOR,<br>O, P'-,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49362) | METHOXY<br>CHLOR,<br>P, P'-,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49361) | MIREX,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49360)         | CIS-<br>NONA-<br>CHLOR,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49359) | TRANS-<br>NONA-<br>CHLOR,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49358) | TOXA-<br>PHENE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49355)        | BENZENE<br>HEXA-<br>CHLORO-<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49367) | PENTA<br>CHLORO<br>ANISOLE<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49356) |                                                                     |
| OCT 1995<br>17... | 14.0                                                                | <9.00                                                                             | <5.00                                                                             | <5.00                                                               | 11.0                                                                         | 25.0                                                                           | <200                                                                        | <5.00                                                                            | <22.0                                                                           |                                                                     |

## 07030392 WOLF RIVER AT LAGRANGE, TN

| DATE              | TIME | DIS-<br>CHARGE,<br>INST.<br>CUBIC<br>FEET<br>PER<br>SECOND<br>(00061) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L)<br>(80154) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM<br>(70331) |
|-------------------|------|-----------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------------|
| OCT 1995<br>19... | 1430 | 74                                                                    | 33                                                           | 5.8                                                                  | 16.5                                            | 8.8                                            | --                                                    | --                                                                       |
| JAN 1996<br>24... | 1045 | 650                                                                   | 31                                                           | 6.3                                                                  | 8.0                                             | 10.1                                           | 365                                                   | 73                                                                       |
| FEB<br>12...      | 1500 | 231                                                                   | 34                                                           | 6.4                                                                  | 8.0                                             | 7.4                                            | 17                                                    | 96                                                                       |
| 28...             | 1020 | 267                                                                   | 37                                                           | 6.2                                                                  | 14.0                                            | 8.5                                            | --                                                    | --                                                                       |
| MAR<br>11...      | 1230 | 230                                                                   | 35                                                           | 6.8                                                                  | 7.0                                             | 11.0                                           | 22                                                    | 69                                                                       |
| APR<br>08...      | 1430 | 203                                                                   | 37                                                           | 6.6                                                                  | 13.5                                            | 9.9                                            | 24                                                    | 80                                                                       |
| MAY<br>06...      | 1400 | 128                                                                   | 44                                                           | 6.8                                                                  | 21.5                                            | 7.6                                            | 31                                                    | 84                                                                       |
| 22...             | 0905 | 108                                                                   | 41                                                           | 6.0                                                                  | 21.5                                            | 7.1                                            | --                                                    | --                                                                       |
| JUN<br>18...      | 0740 | 103                                                                   | 42                                                           | 6.7                                                                  | 23.0                                            | 6.7                                            | 33                                                    | 83                                                                       |
| JUL<br>24...      | 1320 | 82                                                                    | 41                                                           | 6.7                                                                  | 24.0                                            | 7.6                                            | 18                                                    | 87                                                                       |
| AUG<br>14...      | 0930 | 77                                                                    | 38                                                           | 5.9                                                                  | 20.5                                            | 7.7                                            | --                                                    | --                                                                       |
| 19...             | 1530 | 74                                                                    | 40                                                           | 6.4                                                                  | 23.5                                            | 9.9                                            | 3                                                     | 75                                                                       |
| SEP<br>05...      | 1210 | 773                                                                   | 33                                                           | 6.3                                                                  | 22.0                                            | 5.0                                            | 69                                                    | 83                                                                       |
| 17...             | 0710 | 177                                                                   | 40                                                           | 6.7                                                                  | 20.0                                            | 7.1                                            | 36                                                    | 95                                                                       |



## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

WATER QUALITY DATA, APRIL 1995 TO SEPTEMBER 1996

## NATIONAL WATER-QUALITY ASSESSMENT PROGRAM

LOWER MISSISSIPPI EMBAYMENT STUDY--Continued

07030392 WOLF RIVER AT LAGRANGE, TN--Continued

| DATE      | TIME | COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625) | E. COLI, WATER WHOLE TOTAL UREASE (COL /100 ML) (31633) | CALCIUM DIS-SOLVED (MG/L AS CA) (00915) | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925) | SODIUM, DIS-SOLVED (MG/L AS NA) (00930) | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935) | BICAR-BONATE, WATER DIS IT FIELD (MG/L AS HCO3) (00453) | ALKA-LINITY, WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086) |
|-----------|------|----------------------------------------------------|---------------------------------------------------------|-----------------------------------------|---------------------------------------------|-----------------------------------------|--------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------|
| FEB 1996  |      |                                                    |                                                         |                                         |                                             |                                         |                                            |                                                         |                                                           |
| 12...     | 1500 | 49                                                 | 62                                                      | 1.8                                     | 0.84                                        | 2.4                                     | 1.0                                        | 9                                                       | 7                                                         |
| MAR 11... | 1230 | K33                                                | K39                                                     | 2.0                                     | 0.94                                        | 2.3                                     | 1.0                                        | 11                                                      | 9                                                         |
| APR 08... | 1430 | --                                                 | --                                                      | 2.2                                     | 1.0                                         | 2.3                                     | 1.0                                        | 13                                                      | 11                                                        |
| MAY 06... | 1400 | 83                                                 | --                                                      | 3.0                                     | 1.4                                         | 2.5                                     | 1.0                                        | 24                                                      | 20                                                        |
| JUN 18... | 0740 | --                                                 | --                                                      | 3.1                                     | 1.3                                         | 2.4                                     | 0.90                                       | 20                                                      | 17                                                        |
| JUL 24... | 1320 | --                                                 | --                                                      | 2.6                                     | 1.2                                         | 2.6                                     | 1.0                                        | 28                                                      | 24                                                        |
| AUG 19... | 1530 | --                                                 | --                                                      | 2.6                                     | 1.1                                         | 2.7                                     | 1.0                                        | 16                                                      | 14                                                        |
| SEP 05... | 1210 | --                                                 | --                                                      | 2.1                                     | 0.84                                        | 1.5                                     | 1.9                                        | 9                                                       | 8                                                         |
| 17...     | 0710 | --                                                 | --                                                      | 2.7                                     | 1.2                                         | 2.2                                     | 1.5                                        | 17                                                      | 15                                                        |

| DATE      | SULFATE DIS-SOLVED (MG/L AS SO4) (00945) | 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) | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625) |
|-----------|------------------------------------------|--------------------------------------------|-------------------------------------------|-------------------------------------------|---------------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|--------------------------------------------------------|
| FEB 1996  |                                          |                                            |                                           |                                           |                                                         |                                                   |                                                   |                                                   |                                                        |
| 12...     | 1.8                                      | 2.2                                        | <0.10                                     | 7.4                                       | 25                                                      | <0.010                                            | 0.120                                             | <0.015                                            | <0.20                                                  |
| MAR 11... | 1.9                                      | 2.2                                        | <0.10                                     | 7.9                                       | 28                                                      | <0.010                                            | 0.160                                             | 0.020                                             | 0.30                                                   |
| APR 08... | 1.4                                      | 2.1                                        | <0.10                                     | 7.1                                       | 26                                                      | 0.010                                             | 0.170                                             | 0.030                                             | 0.30                                                   |
| MAY 06... | 0.80                                     | 2.0                                        | <0.10                                     | 9.0                                       | 31                                                      | <0.010                                            | 0.220                                             | 0.050                                             | 0.30                                                   |
| JUN 18... | 0.60                                     | 2.0                                        | <0.10                                     | 11                                        | 34                                                      | <0.010                                            | 0.330                                             | 0.050                                             | 0.30                                                   |
| JUL 24... | 0.30                                     | 2.5                                        | <0.10                                     | 12                                        | 39                                                      | 0.010                                             | 0.280                                             | 0.060                                             | 0.30                                                   |
| AUG 19... | 0.60                                     | 2.4                                        | <0.10                                     | 11                                        | 35                                                      | <0.010                                            | 0.350                                             | <0.015                                            | <0.20                                                  |
| SEP 05... | 3.0                                      | 1.5                                        | <0.10                                     | 7.6                                       | 37                                                      | <0.010                                            | 0.060                                             | <0.020                                            | 0.50                                                   |
| 17...     | 0.80                                     | 2.2                                        | <0.10                                     | 9.7                                       | 28                                                      | <0.010                                            | 0.210                                             | 0.030                                             | 0.40                                                   |

| DATE      | NITRO-GEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623) | PHOS-PHORUS TOTAL (MG/L AS P) (00665) | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666) | PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671) | IRON, DIS-SOLVED (UG/L AS FE) (01046) | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) | CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681) | CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689) |
|-----------|-------------------------------------------------------|---------------------------------------|--------------------------------------------|---------------------------------------------------|---------------------------------------|---------------------------------------------|------------------------------------------------|------------------------------------------------------|
| FEB 1996  |                                                       |                                       |                                            |                                                   |                                       |                                             |                                                |                                                      |
| 12...     | <0.20                                                 | <0.010                                | <0.010                                     | 0.010                                             | 400                                   | 63                                          | 2.2                                            | 0.70                                                 |
| MAR 11... | <0.20                                                 | 0.040                                 | <0.010                                     | 0.010                                             | 430                                   | 73                                          | 3.6                                            | 0.90                                                 |
| APR 08... | <0.20                                                 | 0.030                                 | <0.010                                     | <0.010                                            | 400                                   | 89                                          | 2.3                                            | 0.70                                                 |
| MAY 06... | 0.30                                                  | 0.050                                 | 0.020                                      | 0.020                                             | 930                                   | 170                                         | 2.8                                            | 0.50                                                 |
| JUN 18... | <0.20                                                 | 0.030                                 | <0.010                                     | 0.010                                             | 770                                   | 150                                         | 2.3                                            | 0.40                                                 |
| JUL 24... | <0.20                                                 | 0.010                                 | <0.010                                     | 0.020                                             | 280                                   | 170                                         | 1.5                                            | 0.40                                                 |
| AUG 19... | <0.20                                                 | 0.010                                 | 0.010                                      | 0.010                                             | 350                                   | 130                                         | 1.4                                            | 0.30                                                 |
| SEP 05... | 0.40                                                  | 0.090                                 | 0.020                                      | 0.020                                             | 230                                   | 110                                         | 9.8                                            | 1.9                                                  |
| 17...     | <0.20                                                 | 0.060                                 | <0.010                                     | 0.010                                             | 75                                    | 93                                          | 3.2                                            | 1.2                                                  |

## BED SEDIMENT DATA

| DATE     | CALCIUM BOT MAT <63U WS FIELD PERCENT (34830) | MAGNE-SIUM BOT MAT <63U WS FIELD PERCENT (34900) | SODIUM BOT MAT <63U WS FIELD PERCENT (34960)   | POTAS-SIUM BOT MAT <63U WS FIELD PERCENT (34940) | SULFUR BOT MAT <63U WS FIELD (UG/G) (34970) | PHOS-PHORUS BOT MAT <63U WS FIELD PERCENT (34935) | ALUM-INUM BOT MAT <63U WS FIELD PERCENT (34790) | ANTI-MONY BOT MAT <63U WS FIELD (UG/G) (34795) | ARSENIC BOT MAT <63U WS FIELD (UG/G) (34800) | BARIUM BOT MAT <63U WS FIELD (UG/G) (34805) | BERYL-LIUM BOT MAT <63U WS FIELD (UG/G) (34810) | BISMUTH BOT MAT <180UWS FIELD (UG/G) (34816) |
|----------|-----------------------------------------------|--------------------------------------------------|------------------------------------------------|--------------------------------------------------|---------------------------------------------|---------------------------------------------------|-------------------------------------------------|------------------------------------------------|----------------------------------------------|---------------------------------------------|-------------------------------------------------|----------------------------------------------|
| OCT 1995 |                                               |                                                  |                                                |                                                  |                                             |                                                   |                                                 |                                                |                                              |                                             |                                                 |                                              |
| 19...    | 0.19                                          | 0.26                                             | 0.44                                           | 1.3                                              | <0.05                                       | 0.06                                              | 4.7                                             | 0.7                                            | 10                                           | 600                                         | 1                                               | <10                                          |
| DATE     | CADMIUM BOT MAT <63U WS FIELD (UG/G) (34825)  | CERIUM BOT MAT <63U WS FIELD (UG/G) (34835)      | CHRO-MIUM BOT MAT <63U WS FIELD (UG/G) (34840) | COBALT BOT MAT <63U WS FIELD (UG/G) (34845)      | COPPER BOT MAT <63U WS FIELD (UG/G) (34850) | EURO-PYUM BOT MAT <63U WS FIELD (UG/G) (34855)    | GALLIUM BOT MAT <63U WS FIELD (UG/G) (34860)    | GOLD BOT MAT <63U WS FIELD (UG/G) (34870)      | HOLMIUM BOT MAT <63U WS FIELD (UG/G) (34875) | IRON BOT MAT <63U WS PERCENT (34880)        | LANTHA-NUM BOT MAT <63U WS FIELD (UG/G) (34885) | LEAD BOT MAT <63U WS FIELD (UG/G) (34890)    |
| OCT 1995 |                                               |                                                  |                                                |                                                  |                                             |                                                   |                                                 |                                                |                                              |                                             |                                                 |                                              |
| 19...    | 0.1                                           | 83                                               | 46                                             | 13                                               | 12                                          | <2                                                | 10                                              | <8                                             | <4                                           | 2.7                                         | 40                                              | 14                                           |

## WATER QUALITY DATA, APRIL 1995 TO SEPTEMBER 1996

## NATIONAL WATER-QUALITY ASSESSMENT PROGRAM

## LOWER MISSISSIPPI EMBAYMENT STUDY--Continued

## 07030392 WOLF RIVER AT LAGRANGE, TN--Continued

## BED SEDIMENT DATA--Continued

| DATE              | LITHIUM<br>BOT MAT<br><63U WS<br>(UG/G)<br>(34895)                                  | MANGA-<br>NESE<br>BOT MAT<br><63U WS<br>(UG/G)<br>(34905)                            | MERCURY<br>BOT MAT<br><63U WS<br>(UG/G)<br>(34910)                                    | MOLYB-<br>DENUM<br>BOT MAT<br><63U WS<br>(UG/G)<br>(34915)                            | NEODYM-<br>IUM<br>BOT MAT<br><63U WS<br>(UG/G)<br>(34920)                             | NICKEL<br>BOT MAT<br><63U WS<br>(UG/G)<br>(34925)                                  | NIOBIUM<br>BOT MAT<br><63U WS<br>(UG/G)<br>(34930)                                    | SCAN-<br>DIUM<br>BOT MAT<br><63U WS<br>(UG/G)<br>(34945)                             | SELE-<br>NIUM<br>BOT MAT<br><63U WS<br>(UG/G)<br>(34950)                             | SILVER<br>BOT MAT<br><63U WS<br>(UG/G)<br>(34955)                                      | STRON-<br>TIUM<br>BOT MAT<br><63U WS<br>(UG/G)<br>(34965)                            | TANTA-<br>LUM<br>BOT MAT<br><63U WS<br>(UG/G)<br>(34975)                              |
|-------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| OCT 1995<br>19... | 20                                                                                  | 3100                                                                                 | 0.03                                                                                  | <2                                                                                    | 35                                                                                    | 19                                                                                 | 9                                                                                     | 7                                                                                    | 0.3                                                                                  | 0.1                                                                                    | 84                                                                                   | <40                                                                                   |
| DATE              | THORIUM<br>BOT MAT<br><63U WS<br>(UG/G)<br>(34980)                                  | TIN<br>BOT MAT<br><63U WS<br>(UG/G)<br>(34985)                                       | TITA-<br>NIUM,<br>SED, BM<br>WS, <63U<br>DRY WGT<br>PERCENT<br>(49274)                | URANIUM<br>BOT MAT<br><63U WS<br>(UG/G)<br>(35000)                                    | VANA-<br>DIUM<br>BOT MAT<br><63U WS<br>(UG/G)<br>(35005)                              | YTTER-<br>BIUM<br>BOT MAT<br><63U WS<br>(UG/G)<br>(35015)                          | YTTRIUM<br>BOT MAT<br><63U WS<br>(UG/G)<br>(35010)                                    | ZINC<br>BOT MAT<br><63U WS<br>(UG/G)<br>(35020)                                      | CARBON,<br>ORGANIC<br>SED, BM<br>WS, <63U<br>DW, REC<br>(PER-<br>CENT)<br>(49266)    | CARBON,<br>ORGANIC<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(G/KG)<br>(49271)              | CARBON,<br>INORG,<br>SED, BM<br>WS, <63U<br>DW, REC<br>(PER-<br>CENT)<br>(49269)     | CARBON,<br>INORG,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(G/KG)<br>(49270)              |
| OCT 1995<br>19... | 10                                                                                  | <10                                                                                  | 0.340                                                                                 | 4.1                                                                                   | 61                                                                                    | 2                                                                                  | 22                                                                                    | 50                                                                                   | 1.17                                                                                 | 12.0                                                                                   | 0.02                                                                                 | <0.100                                                                                |
| DATE              | PCB,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49459)                        | ALPHA-<br>BHC,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49338)               | BETA-<br>BHC,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49339)                 | ALDRIN,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49319)                       | CIS-<br>CHLOR-<br>DANE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49320)       | OXY-<br>CHLOR-<br>DANE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49318)    | TRANS-<br>CHLOR-<br>DANE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49321)     | CHLORO-<br>NEB,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49322)              | DCPA,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49324)                        | O, P'-<br>DDD,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49325)                 | P, P'-<br>DDD,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49326)               | O, P'-<br>DDE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49327)                |
| OCT 1995<br>19... | <50                                                                                 | <1.00                                                                                | <1.00                                                                                 | <1.00                                                                                 | <1.00                                                                                 | <1.00                                                                              | <1.00                                                                                 | <5.00                                                                                | <5.00                                                                                | <1.00                                                                                  | <1.00                                                                                | <1.00                                                                                 |
| DATE              | P, P'-<br>DDE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49328)              | O, P'-<br>DDT,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49329)               | P, P'-<br>DDT,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49330)                | DIEL-<br>DRIN,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49331)                | ENDO-<br>SULFAN<br>I,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49332)         | ENDRIN,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49335)                    | HEPTA-<br>CHLOR,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49341)              | HEPTA-<br>CHLOR<br>EPOXIDE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49342)   | ISODRIN<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49344)                      | LINDANE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49345)                        | METHOXY<br>CHLOR,<br>O, P'-,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49347) | METHOXY<br>CHLOR<br>P, P'-,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49346)   |
| OCT 1995<br>19... | 1.80                                                                                | <2.00                                                                                | <2.00                                                                                 | <1.00                                                                                 | <1.00                                                                                 | <2.00                                                                              | <1.00                                                                                 | <1.00                                                                                | <1.00                                                                                | <1.00                                                                                  | <5.00                                                                                | <5.00                                                                                 |
| DATE              | MIREX,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49348)                      | CIS-<br>NONA-<br>CHLOR,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49316)      | TRANS-<br>NONA-<br>CHLOR,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49317)     | CIS-<br>PER-<br>METHRIN<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49349)       | TRANS-<br>PER-<br>METHRIN<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49350)     | TOXA-<br>PHENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49351)             | ACENAPH<br>THENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49429)              | ACENAPH<br>THYLENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49428)           | ACRI-<br>DINE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49430)                | PHENOL<br>C8-<br>ALKYL-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49424)        | ANTHRA-<br>CENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49434)              | 9,10-<br>ANTHRA-<br>QUINONE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49437)   |
| OCT 1995<br>19... | <1.00                                                                               | <1.00                                                                                | <1.00                                                                                 | <5.00                                                                                 | <5.00                                                                                 | <200                                                                               | <50                                                                                   | E14                                                                                  | <50                                                                                  | <50                                                                                    | E10                                                                                  | <50                                                                                   |
| DATE              | AZO-<br>BENZENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49443)             | BENZ(A)<br>ANTHRA-<br>CENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49436)   | BENZOCI<br>NNOLINE<br>BED MAT<br>WS <2MM<br>DRY WGT<br>REC<br>(UG/KG)<br>(49468)      | BENZOB<br>FLUOR-<br>ANTHENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49458)   | BENZO K<br>FLUOR-<br>ANTHENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49397)  | BENZO(G<br>HI)PERY<br>LENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49408) | BENZO<br>(A)<br>PYRENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49389)        | 2,2'-BI<br>QUINO-<br>LINE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49391)   | METHANE<br>2CHLORO<br>ETHOXY<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49401) | PHTHALA<br>TE, BIS2<br>ETHHEXL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49426) | 4-BROMO<br>PHNPHNL<br>ETHER<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49454)  | PHTHALA<br>TEBUTYL<br>BENZYL-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49427) |
| OCT 1995<br>19... | <50                                                                                 | E30                                                                                  | <50                                                                                   | E39                                                                                   | E17                                                                                   | <50                                                                                | E36                                                                                   | <50                                                                                  | <50                                                                                  | 56                                                                                     | <50                                                                                  | 57                                                                                    |
| DATE              | CARBA-<br>ZOLE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49449)              | M-CRE-<br>SOL, 4-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49422) | NAPHTAL<br>ENE, 2-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49407) | PHENOL,<br>2CHLORO<br>BED MAT<br>WS <2MM<br>REC<br>(UG/KG)<br>(49467)                 | 4CHLORO<br>PHNPHN<br>LETHER<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49455)   | CHRY-<br>SENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49450)              | P-<br>CRESOL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49451)                  | DIBENZ<br>(AH),AN<br>THRACEN<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49461) | THIOPH<br>ENE, DI-<br>BENZO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49452) | PHTHAL-<br>ATE,<br>DIBUTYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49381)     | BENZENE<br>O-DI-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49439)  | BENZENE<br>M-DI-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49441)   |
| OCT 1995<br>19... | <50                                                                                 | <50                                                                                  | <50                                                                                   | <50                                                                                   | <50                                                                                   | E16                                                                                | E33                                                                                   | <50                                                                                  | <50                                                                                  | 68                                                                                     | <50                                                                                  | <50                                                                                   |
| DATE              | BENZENE<br>P-DI-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49442) | PHTHAL-<br>ATE, D<br>IETHYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49383)  | NAPHTAL<br>ENE, 12<br>DIMETHL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49403) | NAPHTAL<br>ENE, 16<br>DIMETHL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49404) | NAPHTAL<br>ENE, 26<br>DIMETHL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49406) | 3,5-<br>XYLENOL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49421)            | PHTHAL-<br>ATE, DI-<br>METHYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49384) | TOLUENE<br>2,4-DI-<br>NITRO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49395) | TOLUENE<br>2,6-DI-<br>NITRO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49396) | PHTHAL<br>ATE, D<br>IOCTYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49382)     | NAPHTAL<br>ENE, 2-<br>ETHYL-<br>SED, BM<br>WS <2MM<br>DW REC<br>(UG/KG)<br>(49948)   | FLUOR-<br>ANTHENE<br>BED MAT<br>WS <2MM<br>DRY WGT<br>REC<br>(UG/KG)<br>(49466)       |
| OCT 1995<br>19... | <50                                                                                 | E21                                                                                  | <50                                                                                   | <50                                                                                   | E12                                                                                   | <50                                                                                | E11                                                                                   | <50                                                                                  | <50                                                                                  | <50                                                                                    | <50.0                                                                                | E29                                                                                   |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

WATER QUALITY DATA, APRIL 1995 TO SEPTEMBER 1996

NATIONAL WATER-QUALITY ASSESSMENT PROGRAM

LOWER MISSISSIPPI EMBAYMENT STUDY--Continued

07030392 WOLF RIVER AT LAGRANGE, TN--Continued

BED SEDIMENT DATA--Continued

| DATE | 9H-FLU-<br>ORENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49399) | BENZENE<br>HEXA-<br>CHLORO-<br>PYRENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49343) | INDENO<br>123-CD<br>PYRENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49390) | ISOPHOR<br>ONE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49400) | ISO-<br>QUINO-<br>LINE,<br>THRENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49394) | ANTHRA-<br>CENE, 2-<br>METHYL-<br>1METHYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49435) | 9H-FLU-<br>ORENE,<br>1METHYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49398) | PHENAN<br>THRENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49410) | PYRENE,<br>1-<br>METHYL,<br>THRENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49388) | 4HCYPEN<br>PHENAN<br>THRENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49411) | NAPHTH-<br>ALENE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49402) | BENZENE<br>NITRO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49444) |
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| OCT 1995<br>19... | <50 | <50.0 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | E18 | <50 | <50 |
|-------------------|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

| DATE | DPROPYL<br>AMINE, N<br>NITROSO<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49431) | DIPHNYL<br>AMINE, N<br>NITROSO<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49433) | PENTA-<br>CHLORO-<br>ANISOLE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49460) | BENZENE<br>PNTCHLR<br>NITRO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49446) | PHENAN<br>THRENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49409) | PHENAN-<br>THRI-<br>DINE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49393) | PHENOL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49413) | PYRENE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49387) | QUINO-<br>LINE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49392) | BENZENE<br>124TRI-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49438) | NAPHTH-<br>ENE, 236<br>TRIMETH<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49405) |
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| OCT 1995<br>19... | <50 | <50 | <50 | <50 | E6.0 | <50 | E9.0 | E28 | <50 | <50 | <50 |
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## FISH LIVER DATA

| DATE | ALUMI-<br>NUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49237) | ANTI-<br>MONY,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49246) | ARSENIC<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49247) | BARIUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49238) | BERYL-<br>LIUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49248) | BORON,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49239) | CADMIUM<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49249) | CHROM-<br>IUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49240) | COBALT,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49250) | COPPER,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49241) | IRON,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49242) |
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| OCT 1995<br>19... | 2.9 | <0.2 | <0.2 | 0.6 | <0.2 | 0.6 | 0.7 | 0.8 | 1.3 | 6.8 | 350 |
|-------------------|-----|------|------|-----|------|-----|-----|-----|-----|-----|-----|

| DATE | LEAD,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49251) | MANGAN-<br>ESE,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49243) | MERCURY<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49258) | MOLYB-<br>DENUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49252) | NICKEL,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49253) | SELEN-<br>IUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49254) | SILVER,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49255) | STRON-<br>TIUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49244) | URANIUM<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49257) | VANA-<br>DIUM<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49465) | ZINC,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49245) |
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| OCT 1995<br>19... | <0.2 | 4.2 | 0.8 | 0.6 | 3.5 | 6.3 | <0.2 | 10 | <0.2 | 0.7 | 76 |
|-------------------|------|-----|-----|-----|-----|-----|------|----|------|-----|----|

## FISH TISSUE DATA

| DATE | PCB,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49354) | ALPHA-<br>BHC,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49366) | BETA-<br>BHC,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49365) | DELTA-<br>BHC,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49364) | ALDRIN,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49353) | CIS-<br>CHLOR-<br>DANE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49380) | OXY-<br>CHLOR-<br>DANE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49357) | TRANS-<br>CHLOR-<br>DANE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49379) | DCPA,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49378) | O,P'-<br>DDD,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49374) |
|------|-----------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------|
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|                   |       |       |       |       |       |       |       |       |       |       |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| OCT 1995<br>19... | <50.0 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

| DATE | P,P'-<br>DDD,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49375) | O,P'-<br>DDE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49373) | P,P'-<br>DDE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49372) | O,P'-<br>DDT,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49377) | P,P'-<br>DDT,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49376) | DIEL-<br>DRIN,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49371) | ENDRIN,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49370) | HEPTA-<br>CHLOR-<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49369) | HEPTA-<br>CHLOR-<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49368) | LINDANE<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49363) |
|------|--------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------|
|------|--------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------|

|                   |      |       |     |       |      |       |       |       |       |       |
|-------------------|------|-------|-----|-------|------|-------|-------|-------|-------|-------|
| OCT 1995<br>19... | 42.0 | <5.00 | 250 | <5.00 | 40.0 | <5.00 | <5.00 | <5.00 | <5.00 | <5.00 |
|-------------------|------|-------|-----|-------|------|-------|-------|-------|-------|-------|

| DATE | METHOXY<br>CHLOR,<br>O,P'-,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49289) | METHOXY<br>CHLOR,<br>P,P'-,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49362) | MIREX,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49360) | CIS-<br>NONA-<br>CHLOR,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49359) | TRANS-<br>NONA-<br>CHLOR,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49358) | TOXA-<br>PHENE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49355) | BENZENE<br>HEXA-<br>CHLORO-<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49367) | PENTA<br>CHLORO<br>ANISOLE<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49356) |
|------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
|------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|

|                   |      |       |       |       |       |      |      |       |       |
|-------------------|------|-------|-------|-------|-------|------|------|-------|-------|
| OCT 1995<br>19... | 4.40 | <5.00 | <5.00 | <5.00 | <5.00 | 5.10 | <200 | <5.00 | <5.00 |
|-------------------|------|-------|-------|-------|-------|------|------|-------|-------|

## WATER QUALITY DATA, APRIL 1995 TO SEPTEMBER 1996

## NATIONAL WATER-QUALITY ASSESSMENT PROGRAM

## LOWER MISSISSIPPI EMBAYMENT STUDY--Continued

## 07031650 WOLF RIVER AT GERMANTOWN, TN

| DATE     | TIME | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | TEMPER-ATURE WATER (DEG C) (00010) | OXYGEN, DIS-SOLVED (MG/L) (00300) |
|----------|------|-------------------------------------------------|-----------------------------------------|------------------------------------------------|------------------------------------|-----------------------------------|
| FEB 1996 |      |                                                 |                                         |                                                |                                    |                                   |
| 28...    | 1215 | 1100                                            | 55                                      | 6.5                                            | 14.0                               | 6.9                               |
| MAY      |      |                                                 |                                         |                                                |                                    |                                   |
| 22...    | 1010 | 367                                             | 59                                      | 6.4                                            | 23.5                               | 7.1                               |
| AUG      |      |                                                 |                                         |                                                |                                    |                                   |
| 14...    | 1230 | 353                                             | 51                                      | 6.3                                            | 24.5                               | 7.8                               |

## 07031692 FLETCHER CREEK AT SYCAMORE VIEW ROAD AT MEMPHIS, TN

|          |       |                                                   |                                                   | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)   | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)                 | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)               | TEMPER-ATURE WATER (DEG C) (00010)                               | OXYGEN, DIS-SOLVED (MG/L) (00300)          | SEDI-MENT, SUS-PENDED (MG/L) (80154)              | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331) |                                             |                                                         |                                                      |
|----------|-------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------|-----------------------------------------------------|---------------------------------------------|---------------------------------------------------------|------------------------------------------------------|
|          |       | DATE                                              | TIME                                              | FEB 1996<br>28...                                 | 1300                                                    | --                                                           | 95                                                               | 7.2                                        | 12.0                                              | 7.6                                                 | --                                          | --                                                      |                                                      |
|          |       | APR                                               | 17...                                             | 1650                                              | 5.2                                                     | 132                                                          | 7.4                                                              | 17.0                                       | 8.1                                               | 99                                                  | 97                                          |                                                         |                                                      |
|          |       | MAY                                               | 09...                                             | 1730                                              | 25                                                      | 111                                                          | 6.9                                                              | 25.5                                       | 7.6                                               | 119                                                 | 98                                          |                                                         |                                                      |
|          |       |                                                   | 22...                                             | 1115                                              | 0.26                                                    | 189                                                          | 7.3                                                              | 25.5                                       | 5.6                                               | --                                                  | --                                          |                                                         |                                                      |
|          |       | JUN                                               | 26...                                             | 2000                                              | 2.2                                                     | 190                                                          | 7.6                                                              | 30.5                                       | 7.0                                               | 114                                                 | 94                                          |                                                         |                                                      |
|          |       | JUL                                               | 25...                                             | 0730                                              | 21                                                      | 87                                                           | 6.7                                                              | 24.5                                       | 6.3                                               | 719                                                 | 99                                          |                                                         |                                                      |
|          |       | AUG                                               | 14...                                             | 1305                                              | 19                                                      | 147                                                          | 6.7                                                              | 27.5                                       | 3.8                                               | --                                                  | --                                          |                                                         |                                                      |
|          |       |                                                   | 27...                                             | 1645                                              | 1.7                                                     | 159                                                          | 6.8                                                              | 26.0                                       | 3.5                                               | 45                                                  | 92                                          |                                                         |                                                      |
|          |       | SEP                                               | 10...                                             | 0745                                              | 0.79                                                    | 135                                                          | 6.8                                                              | 25.0                                       | 4.3                                               | 159                                                 | 100                                         |                                                         |                                                      |
| DATE     | TIME  | CALCIUM DIS-SOLVED (MG/L AS CA) (00915)           | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)       | SODIUM, DIS-SOLVED (MG/L AS NA) (00930)           | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)              | BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3 CAC03) (00453) | ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS MG/L AS CAC03) (39086) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945)   | 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)   | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300) |                                                      |
| APR 1996 | 17... | 1650                                              | 13                                                | 3.0                                               | 6.8                                                     | 3.1                                                          | 48                                                               | 39                                         | 10                                                | 5.8                                                 | 0.20                                        | 6.0                                                     | 80                                                   |
| MAY      | 09... | 1730                                              | 11                                                | 2.5                                               | 4.7                                                     | 3.1                                                          | 39                                                               | 32                                         | 8.6                                               | 4.3                                                 | 0.20                                        | 7.8                                                     | 73                                                   |
| JUN      | 26... | 2000                                              | 18                                                | 3.6                                               | 11                                                      | 4.2                                                          | 69                                                               | 57                                         | 9.6                                               | 12                                                  | 0.30                                        | 8.4                                                     | 110                                                  |
| JUL      | 25... | 0730                                              | 7.5                                               | 2.1                                               | 3.6                                                     | 3.3                                                          | 29                                                               | 24                                         | 5.8                                               | 2.9                                                 | 0.30                                        | 5.8                                                     | 70                                                   |
| AUG      | 27... | 1645                                              | 17                                                | 3.0                                               | 7.2                                                     | 3.9                                                          | 65                                                               | 53                                         | 8.4                                               | 6.9                                                 | 0.30                                        | 5.2                                                     | 102                                                  |
| SEP      | 10... | 0745                                              | 15                                                | 3.2                                               | 5.0                                                     | 3.9                                                          | 58                                                               | 48                                         | 8.1                                               | 5.4                                                 | 0.30                                        | 7.7                                                     | 83                                                   |
| DATE     | TIME  | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625) | NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)       | PHOS-PHORUS TOTAL (MG/L AS P) (00665)                            | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666) | PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671) | IRON, DIS-SOLVED (UG/L AS FE) (01046)               | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) | CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)          | CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689) |
| APR 1996 | 17... | 0.060                                             | 0.620                                             | 0.130                                             | 1.4                                                     | 0.90                                                         | 0.280                                                            | 0.050                                      | 0.050                                             | 460                                                 | 23                                          | 5.8                                                     | 4.1                                                  |
| MAY      | 09... | 0.060                                             | 1.00                                              | 0.140                                             | 1.4                                                     | 0.80                                                         | 0.390                                                            | 0.120                                      | 0.120                                             | 140                                                 | 27                                          | 9.6                                                     | >5.0                                                 |
| JUN      | 26... | 0.030                                             | 0.100                                             | 0.020                                             | 1.5                                                     | 0.50                                                         | 0.280                                                            | 0.050                                      | 0.050                                             | 8.0                                                 | 71                                          | 6.0                                                     | 4.0                                                  |
| JUL      | 25... | 0.040                                             | 0.720                                             | 0.210                                             | 1.9                                                     | 0.70                                                         | 0.790                                                            | 0.080                                      | 0.120                                             | 7.0                                                 | 170                                         | 6.3                                                     | 5.2                                                  |
| AUG      | 27... | 0.040                                             | 0.350                                             | 0.090                                             | 1.0                                                     | 0.70                                                         | 0.160                                                            | 0.070                                      | 0.080                                             | 14                                                  | 75                                          | 7.9                                                     | --                                                   |
| SEP      | 10... | 0.030                                             | 0.190                                             | 0.080                                             | 1.4                                                     | 0.40                                                         | 0.320                                                            | 0.030                                      | 0.040                                             | 18                                                  | 68                                          | 5.7                                                     | 4.9                                                  |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

WATER QUALITY DATA, APRIL 1995 TO SEPTEMBER 1996

## NATIONAL WATER-QUALITY ASSESSMENT PROGRAM

LOWER MISSISSIPPI EMBAYMENT STUDY--Continued

07279950 COLDWATER RIVER AT MARKS, MS

| DATE     | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|----------|------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| FEB 1996 |      |                                                              |                                                                      |                                                 |                                                |
| 27...    | 1200 | 84                                                           | 6.3                                                                  | 15.5                                            | 9.1                                            |
| MAY      |      |                                                              |                                                                      |                                                 |                                                |
| 22...    | 1400 | 141                                                          | 7.3                                                                  | 26.5                                            | 6.5                                            |
| AUG      |      |                                                              |                                                                      |                                                 |                                                |
| 15...    | 1015 | 166                                                          | 6.7                                                                  | 27.5                                            | 7.1                                            |

07280900 CASSIDY BAYOU AT WEBB, MS

| DATE     | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|----------|------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| OCT 1995 |      |                                                              |                                                                      |                                                 |                                                |
| 16...    | 1400 | 396                                                          | 8.8                                                                  | 20.0                                            | 11.3                                           |
| FEB 1996 |      |                                                              |                                                                      |                                                 |                                                |
| 27...    | 1705 | 102                                                          | 7.3                                                                  | 20.5                                            | 7.3                                            |
| MAY      |      |                                                              |                                                                      |                                                 |                                                |
| 23...    | 0845 | 95                                                           | 6.7                                                                  | 25.5                                            | 5.1                                            |
| JUN      |      |                                                              |                                                                      |                                                 |                                                |
| 20...    | 1125 | 60                                                           | 6.0                                                                  | 28.0                                            | 3.3                                            |
| JUL      |      |                                                              |                                                                      |                                                 |                                                |
| 18...    | 1300 | 308                                                          | 8.1                                                                  | 31.5                                            | 9.4                                            |
| AUG      |      |                                                              |                                                                      |                                                 |                                                |
| 15...    | 1530 | 136                                                          | 8.1                                                                  | 31.0                                            | 10.2                                           |

## BED SEDIMENT DATA

| DATE     | CALCIUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34830) | MAGNE-<br>SIUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34900)    | SODIUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34960)            | POTAS-<br>SIUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34940) | SULFUR<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34970)                      | PHOS-<br>PHORUS<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34935)            | ALUM-<br>INUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34790)                | ANTI-<br>MONY<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34795)       | ARSENIC<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34800)                       | BARIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34805)                | BERYL-<br>LIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34810)       | BISMUTH<br>BOT MAT<br><180UWS<br>FIELD<br>(UG/G)<br>(34816)              |
|----------|--------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|
| OCT 1995 |                                                              |                                                                        |                                                                        |                                                                     |                                                                                 |                                                                                 |                                                                                   |                                                                         |                                                                                   |                                                                           |                                                                          |                                                                          |
| 16...    | 0.73                                                         | 1.1                                                                    | 0.43                                                                   | 2.0                                                                 | <0.05                                                                           | 0.13                                                                            | 8.7                                                                               | 1.0                                                                     | 24                                                                                | 830                                                                       | 3                                                                        | <10                                                                      |
| DATE     | CADMIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34825)  | CERIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34835)             | CHRO-<br>MIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34840)      | COBALT<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34845)          | COPPER<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34850)                      | EURO-<br>PIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34855)               | GALLIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34860)                       | GOLD<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34870)                | HOLMIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34875)                       | IRON<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34880)                 | LANTHA-<br>NUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34885)       | LEAD<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34890)                 |
| OCT 1995 |                                                              |                                                                        |                                                                        |                                                                     |                                                                                 |                                                                                 |                                                                                   |                                                                         |                                                                                   |                                                                           |                                                                          |                                                                          |
| 16...    | 0.4                                                          | 81                                                                     | 87                                                                     | 16                                                                  | 41                                                                              | <2                                                                              | 20                                                                                | <8                                                                      | <4                                                                                | 4.2                                                                       | 40                                                                       | 21                                                                       |
| DATE     | LITHIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34895)  | MANGA-<br>NESE<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34905)     | MERCURY<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34910)            | MOLYB-<br>DENUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34915) | NEODYM-<br>IUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34920)              | NICKEL<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34925)                      | NIOBIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34930)                       | SCAN-<br>DIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34945)       | SELE-<br>NIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34950)                 | SILVER<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34955)                | STRON-<br>TIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34965)       | TANTA-<br>LUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34975)        |
| OCT 1995 |                                                              |                                                                        |                                                                        |                                                                     |                                                                                 |                                                                                 |                                                                                   |                                                                         |                                                                                   |                                                                           |                                                                          |                                                                          |
| 16...    | 50                                                           | 890                                                                    | 0.06                                                                   | <2                                                                  | 34                                                                              | 40                                                                              | 19                                                                                | 15                                                                      | 0.6                                                                               | 0.3                                                                       | 130                                                                      | <40                                                                      |
| DATE     | THORIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34980)  | TIN<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34985)                | TITA-<br>NIUM,<br>SED, BM<br>WS, <63U<br>DRY WGT<br>PERCENT<br>(49274) | URANIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(35000)         | VANA-<br>DIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(35005)               | YTTER-<br>BIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(35015)              | YTTRIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(35010)                       | ZINC<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(35020)                | CARBON,<br>ORGANIC<br>SED, BM<br>WS, <63U<br>DW, REC<br>(PER-<br>CENT)<br>(49266) | CARBON,<br>ORGANIC<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(G/KG)<br>(49271) | CARBON,<br>INORG,<br>SED, BM<br>WS, <63U<br>DW, REC<br>(CENT)<br>(49269) | CARBON,<br>INORG,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(G/KG)<br>(49270) |
| OCT 1995 |                                                              |                                                                        |                                                                        |                                                                     |                                                                                 |                                                                                 |                                                                                   |                                                                         |                                                                                   |                                                                           |                                                                          |                                                                          |
| 16...    | 13                                                           | <10                                                                    | 0.360                                                                  | 3.4                                                                 | 150                                                                             | 2                                                                               | 23                                                                                | 140                                                                     | 1.47                                                                              | 15.0                                                                      | 0.02                                                                     | <0.100                                                                   |
| DATE     | PCB,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49459) | ALPHA-<br>BHC,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49338) | BETA-<br>BHC,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49339)  | ALDRIN,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49319)     | CIS-<br>CHLOR-<br>DANE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49320) | OXY-<br>CHLOR-<br>DANE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49318) | TRANS-<br>CHLOR-<br>DANE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49321) | CHLORO-<br>NEB,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49322) | DCPA,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49324)                     | O, P'-<br>DDD,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49325)    | P, P'-<br>DDD,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49326)   | O, P'-<br>DDE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49327)   |
| OCT 1995 |                                                              |                                                                        |                                                                        |                                                                     |                                                                                 |                                                                                 |                                                                                   |                                                                         |                                                                                   |                                                                           |                                                                          |                                                                          |
| 16...    | <50                                                          | <1.00                                                                  | <1.00                                                                  | <1.00                                                               | <1.00                                                                           | <1.00                                                                           | <1.00                                                                             | <5.00                                                                   | <5.00                                                                             | 2.20                                                                      | 40.0                                                                     | <1.00                                                                    |



## WATER QUALITY DATA, APRIL 1995 TO SEPTEMBER 1996

## NATIONAL WATER-QUALITY ASSESSMENT PROGRAM

## LOWER MISSISSIPPI EMBAYMENT STUDY--Continued

## 07280900 CASSIDY BAYOU AT WEBB, MS--Continued

## BED SEDIMENT DATA--Continued

| DATE              | P, P'-DDE, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49328)                     | O, P'-DDT, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49329)                     | P, P'-DDT, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49330)                      | DIEL-DRIN, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49331)                      | ENDO-SULFAN I, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49332)                  | ENDRIN, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49335)                     | HEPTA-CHLOR, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49341)                | HEPTA-CHLOR EPOXIDE, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49342)         | ISODRIN, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49344)                     | LINDANE, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49345)                      | METHOXY CHLOR, O, P'-, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49347)      | METHOXY CHLOR, P, P'-, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49346)          |
|-------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| OCT 1995<br>16... | 53.0                                                                           | 3.20                                                                           | 9.50                                                                            | 1.80                                                                            | <1.00                                                                           | <2.00                                                                       | <1.00                                                                       | <1.00                                                                        | <1.00                                                                        | <1.00                                                                         | <5.00                                                                       | <5.00                                                                           |
| DATE              | MIREX, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49348)                    | CIS-NONA-CHLOR, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49316)           | TRANS-NONA-CHLOR, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49317)          | CIS-PER-METHRIN, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49349)           | TRANS-PER-METHRIN, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49350)         | TOXA-PHENE, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49351)            | ACENAPH-THENE, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49429)         | ACENAPH-THYLENE, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49428)        | ACRI-DINE, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49430)              | PHENOL C8-ALKYL, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49424)         | ANTHRA-CENE, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49434)           | 9,10-ANTHRA-QUINONE, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49437)       |
| OCT 1995<br>16... | <1.00                                                                          | <1.00                                                                          | <1.00                                                                           | <5.00                                                                           | <5.00                                                                           | <200                                                                        | <50                                                                         | E16                                                                          | <50                                                                          | <50                                                                           | E11                                                                         | <50                                                                             |
| DATE              | AZO-BENZENE, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49443)              | BENZ(A)ANTHRA-CENE, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49436)       | BENZOCINOLINE, BED MAT<br>WS, <2MM<br>DRY WGT<br>REC<br>(UG/KG)<br>(49468)      | BENZOB-FLUOR-ANTHENE, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49458)      | BENZO K-FLUOR-ANTHENE, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49397)     | BENZO(G HI)PERY-LENE, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49408)  | BENZO PYRENE, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49389)          | 2,2'-BIQUINO-LINE, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49391)      | METHANE 2CHLORO-ETHOXY, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49401) | PHTHALA-TE, BIS2 ETHOXY, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49426) | 4-BROMO-PHNPBNL, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49454)       | PHTHALA-TERBUTYL, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49427)          |
| OCT 1995<br>16... | <50                                                                            | E35                                                                            | <50                                                                             | E47                                                                             | E21                                                                             | <50                                                                         | E40                                                                         | E37                                                                          | <50                                                                          | 100                                                                           | <50                                                                         | 60                                                                              |
| DATE              | CARBA-ZOLE, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49449)               | M-CRE-SOL, 4-CHLORO, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49422)      | NAPHTHAL-ENE, 2-CHLORO, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49407)    | PHENOL, 2CHLORO, BED MAT<br>WS, <2MM<br>DRY WGT<br>REC<br>(UG/KG)<br>(49467)    | 4CHLORO-PHNPBN, LETHER, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49455)    | CHRY-SENE, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49450)             | P-CRESOL, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49451)              | DIBENZ(AH), AN-THRACEN, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49461) | THIOPH-ENE, DI-BENZO, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49452)   | PHTHAL-ATE, DIBUTYL, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49381)     | BENZENE O-DI-ETHER, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49439)    | BENZENE M-DI-CHLORO, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49441)       |
| OCT 1995<br>16... | E21                                                                            | <50                                                                            | <50                                                                             | <50                                                                             | <50                                                                             | E21                                                                         | 110                                                                         | <50                                                                          | <50                                                                          | 78                                                                            | <50                                                                         | <50                                                                             |
| DATE              | BENZENE P-DI-CHLORO, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49442)      | PHTHAL-ATE, D IETHYL, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49383)     | NAPHTHAL-ENE, 12 DIMETHYL, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49403) | NAPHTHAL-ENE, 16 DIMETHYL, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49404) | NAPHTHAL-ENE, 26 DIMETHYL, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49406) | 3,5-XYLENOL, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49421)           | PHTHAL-ATE, DI-METHYL, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49384) | TOLUENE 2,4-DI-NITRO, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49395)   | TOLUENE 2,6-DI-NITRO, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49396)   | PHTHAL-ATE, D IOCTYL, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49382)    | NAPHTHAL-ENE, 2-ETHYL, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49948) | FLUOR-ANTHENE, BED MAT<br>WS, <2MM<br>DRY WGT<br>REC<br>(UG/KG)<br>(49466)      |
| OCT 1995<br>16... | <50                                                                            | E24                                                                            | <50                                                                             | <50                                                                             | 64                                                                              | <50                                                                         | <50                                                                         | <50                                                                          | <50                                                                          | <50                                                                           | <50.0                                                                       | E28                                                                             |
| DATE              | 9H-FLU-ORENE, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49399)             | BENZENE HEXA-CHLORO, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49343)      | INDENO 123-CD, PYRENE, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49390)     | ISOPHOR-ONE, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49400)               | ISO-QUINO-LINE, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49394)            | ANTHRA-CENE, 2-METHYL, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49435) | 9H-FLU-ORENE, 1METHYL, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49398) | PHENAN-THRENE, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49410)          | PYRENE, 1-METHYL, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49388)       | 4HCYPEN-THRENE, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49411)          | NAPHTH-ALENE, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49402)          | BENZENE NITRO-SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49444)              |
| OCT 1995<br>16... | <50                                                                            | <50.0                                                                          | <50                                                                             | <50                                                                             | <50                                                                             | <50                                                                         | <50                                                                         | <50                                                                          | <50                                                                          | <50                                                                           | E14                                                                         | <50                                                                             |
| DATE              | DPROPYL-AMINE, N NITROSO, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49431) | DIPHNYL-AMINE, N NITROSO, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49433) | PENTA-CHLORO-ANISOLE, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49460)      | BENZENE PNTCHLR, NITRO-SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49446)     | PHENAN-THRENE, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49409)             | PHENAN-THRI-DINE, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49393)      | PHENOL, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49413)                | PYRENE, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49387)                 | QUINO-LINE, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49392)             | BENZENE 124TRI-CHLORO, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49438)   | PHENOL, 246TRI-CHLORO, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49415) | NAPHTHAL-ENE, 236 TRIMETH, SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49405) |
| OCT 1995<br>16... | <50                                                                            | <50                                                                            | <50                                                                             | <50                                                                             | E7.0                                                                            | <50                                                                         | E23                                                                         | E34                                                                          | <50                                                                          | <50                                                                           | E110                                                                        | <50                                                                             |

## FISH LIVER DATA

| DATE              | ALUMI-NUM, BIOTA, TISSUE, DRY WGT<br>REC<br>(UG/G)<br>(49237) | ANTI-MONY, BIOTA, TISSUE, DRY WGT<br>REC<br>(UG/G)<br>(49246) | ARSENIC, BIOTA, TISSUE, DRY WGT<br>REC<br>(UG/G)<br>(49247) | BARIUM, BIOTA, TISSUE, DRY WGT<br>REC<br>(UG/G)<br>(49238) | BERYL-LIUM, BIOTA, TISSUE, DRY WGT<br>REC<br>(UG/G)<br>(49248) | BORON, BIOTA, TISSUE, DRY WGT<br>REC<br>(UG/G)<br>(49239) | CADMIUM, BIOTA, TISSUE, DRY WGT<br>REC<br>(UG/G)<br>(49249) | CHROM-IUM, BIOTA, TISSUE, DRY WGT<br>REC<br>(UG/G)<br>(49240) | COBALT, BIOTA, TISSUE, DRY WGT<br>REC<br>(UG/G)<br>(49250) | COPPER, BIOTA, TISSUE, DRY WGT<br>REC<br>(UG/G)<br>(49241) | IRON, BIOTA, TISSUE, DRY WGT<br>REC<br>(UG/G)<br>(49242) |
|-------------------|---------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------|
| OCT 1995<br>16... | 73                                                            | <0.2                                                          | 1.8                                                         | 0.6                                                        | <0.2                                                           | 0.8                                                       | 6.4                                                         | 0.5                                                           | 0.3                                                        | 97                                                         | 880                                                      |



## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

WATER QUALITY DATA, APRIL 1995 TO SEPTEMBER 1996

NATIONAL WATER-QUALITY ASSESSMENT PROGRAM

LOWER MISSISSIPPI EMBAYMENT STUDY--Continued

07280900 CASSIDY BAYOU AT WEBB, MS--Continued

FISH LIVER DATA--Continued

| DATE              | LEAD,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49251) | MANGAN-<br>ESE,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49243) | MERCURY<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49258) | MOLYB-<br>DENUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49252) | NICKEL,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49253) | SELEN-<br>IUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49254) | SILVER,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49255) | STRON-<br>TIUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49244) | URANIUM<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49257) | VANA-<br>DIUM<br>BIO TIS<br>LIVER<br>DRY WGT<br>REC<br>(UG/G)<br>(49465) | ZINC,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49245) |
|-------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------|
| OCT 1995<br>16... | 0.4                                                               | 7.0                                                                         | 0.5                                                                 | 1.4                                                                          | 0.2                                                                 | 8.8                                                                        | 0.6                                                                 | 0.4                                                                         | <0.2                                                                | 4.7                                                                      | 560                                                               |

FISH TISSUE DATA

| DATE              | PCB,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49354)          | ALPHA-<br>BHC,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49366)              | BETA-<br>BHC,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49365)               | DELTA-<br>BHC,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49364) | ALDRIN,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49353)                 | CIS-<br>CHLOR-<br>DANE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49380)   | OXY-<br>CHLOR<br>DANE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49357) | TRANS-<br>CHLOR-<br>DANE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49379) | DCPA,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49378)                               | O,P'-<br>DDD,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49374) |
|-------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| OCT 1995<br>16... | 76.0                                                               | <5.00                                                                            | <5.00                                                                            | <5.00                                                               | <5.00                                                                        | <50.0                                                                          | <5.00                                                                       | <50.0                                                                          | <5.00                                                                                    | 130                                                                |
| DATE              | P,P'-<br>DDD,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49375) | O,P'-<br>DDE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49373)               | P,P'-<br>DDE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49372)               | O,P'-<br>DDT,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49377)  | P,P'-<br>DDT,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49376)           | DIEL-<br>DRIN,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49371)            | ENDRIN,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49370)                | HEPTA-<br>CHLOR,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49369)          | HEPTA-<br>CHLOR<br>EPOXIDE<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49368)          | LINDANE<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49363)       |
| OCT 1995<br>16... | E2000                                                              | <50.0                                                                            | E7300                                                                            | <5.00                                                               | 64.0                                                                         | <50.0                                                                          | <50.0                                                                       | <5.00                                                                          | <5.00                                                                                    | <6.00                                                              |
| DATE              | LIPIDS,<br>BIOTA,<br>WH ORG<br>WW, REC<br>PERCENT<br>(49289)       | METHOXY<br>CHLOR,<br>O,P'-,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49362) | METHOXY<br>CHLOR,<br>P,P'-,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49361) | MIREX,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49360)         | CIS-<br>NONA-<br>CHLOR,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49359) | TRANS-<br>NONA-<br>CHLOR,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49358) | TOXA-<br>PHENE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49355)        | BENZENE<br>CHLORO-<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49367)        | PENTA<br>HEXA-<br>CHLORO<br>ANISOLE<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49356) |                                                                    |
| OCT 1995<br>16... | 8.40                                                               | <50.0                                                                            | <50.0                                                                            | <5.00                                                               | <5.00                                                                        | <50.0                                                                          | 2000                                                                        | <5.00                                                                          | <5.00                                                                                    |                                                                    |

07287000 YAZOO RIVER AT GREENWOOD, MS

| DATE              | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-------------------|------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| MAY 1995<br>17... | 1035 | 115                                                          | 6.9                                                                  | 25.0                                            | 6.1                                            |
| AUG 09...         | 1635 | 121                                                          | 7.1                                                                  | 30.5                                            | 5.2                                            |
| FEB 1996<br>28... | 1130 | 98                                                           | 5.7                                                                  | 15.0                                            | 9.5                                            |
| MAY 21...         | 1555 | 160                                                          | 7.1                                                                  | 29.0                                            | 6.3                                            |
| AUG 14...         | 0830 | 95                                                           | 6.7                                                                  | 27.5                                            | 6.6                                            |

07287195 BEAR CREEK NEAR MORGAN CITY, MS

| DATE              | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-------------------|------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| MAY 1995<br>17... | 1720 | 68                                                           | 7.0                                                                  | 28.0                                            | 6.4                                            |
| FEB 1996<br>28... | 1615 | 115                                                          | --                                                                   | 14.5                                            | 7.0                                            |
| MAY 21...         | 1230 | 74                                                           | 6.7                                                                  | 28.5                                            | 5.4                                            |
| AUG 14...         | 1200 | 84                                                           | 6.8                                                                  | 27.0                                            | 4.0                                            |

WATER QUALITY DATA, APRIL 1995 TO SEPTEMBER 1996

NATIONAL WATER-QUALITY ASSESSMENT PROGRAM

LOWER MISSISSIPPI EMBAYMENT STUDY--Continued

07287240 BEAR CREEK AT SWIFTOWN, MS

| DATE      | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-----------|------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| MAY 1995  |      |                                                              |                                                                      |                                                 |                                                |
| 15...     | 1400 | 86                                                           | 7.3                                                                  | 28.5                                            | 8.5                                            |
| AUG 09... | 1505 | 127                                                          | 7.6                                                                  | 33.0                                            | 7.4                                            |
| FEB 1996  |      |                                                              |                                                                      |                                                 |                                                |
| 28...     | 1645 | 135                                                          | --                                                                   | 11.5                                            | 10.4                                           |
| MAY 21... | 1200 | 134                                                          | 7.3                                                                  | 27.0                                            | 8.1                                            |
| AUG 14... | 1245 | 1                                                            | 6.7                                                                  | 24.0                                            | 9.0                                            |

07287260 WASP LAKE NEAR BELZONI, MS

| DATE      | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-----------|------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| MAY 1995  |      |                                                              |                                                                      |                                                 |                                                |
| 15...     | 1445 | 68                                                           | 6.8                                                                  | 29.5                                            | 7.4                                            |
| AUG 10... | 0740 | 87                                                           | 7.4                                                                  | 30.0                                            | 6.3                                            |
| FEB 1996  |      |                                                              |                                                                      |                                                 |                                                |
| 28...     | 1725 | 87                                                           | --                                                                   | 14.5                                            | 9.8                                            |
| MAY 21... | 1130 | 94                                                           | 7.2                                                                  | 28.0                                            | 6.7                                            |
| AUG 13... | 1500 | 93                                                           | 7.5                                                                  | 29.0                                            | 7.6                                            |

07287505 BROAD LAKE TRIBUTARY NO 1 NEAR YAZOO CITY, MS

| DATE      | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-----------|------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| MAY 1995  |      |                                                              |                                                                      |                                                 |                                                |
| 15...     | 1025 | 82                                                           | 6.6                                                                  | 26.5                                            | 4.1                                            |
| AUG 14... | 1345 | 96                                                           | 7.4                                                                  | 32.0                                            | 6.8                                            |
| MAR 1996  |      |                                                              |                                                                      |                                                 |                                                |
| 01...     | 1120 | 71                                                           | 6.8                                                                  | 8.5                                             | 71.9                                           |
| MAY 22... | 0820 | 103                                                          | 6.9                                                                  | 28.0                                            | 14.7                                           |
| AUG 13... | 1100 | 81                                                           | 7.4                                                                  | 28.0                                            | 7.5                                            |

07288000 BIG SUNFLOWER RIVER AT CLARKSDALE, MS

| DATE      | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-----------|------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| MAY 1995  |      |                                                              |                                                                      |                                                 |                                                |
| 18...     | 0945 | 250                                                          | 7.0                                                                  | 25.0                                            | 3.5                                            |
| JUN 20... | 1515 | 328                                                          | 7.2                                                                  | 28.5                                            | 4.0                                            |
| AUG 08... | 1845 | 367                                                          | 7.6                                                                  | 32.5                                            | --                                             |
| FEB 1996  |      |                                                              |                                                                      |                                                 |                                                |
| 27...     | 1350 | 280                                                          | 7.0                                                                  | 19.0                                            | 3.7                                            |
| MAY 22... | 1600 | 170                                                          | 7.0                                                                  | 28.0                                            | --                                             |
| AUG 15... | 1215 | 263                                                          | 7.1                                                                  | 28.5                                            | 8.3                                            |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

WATER QUALITY DATA, APRIL 1995 TO SEPTEMBER 1996

NATIONAL WATER-QUALITY ASSESSMENT PROGRAM

LOWER MISSISSIPPI EMBAYMENT STUDY--Continued

07288500 BIG SUNFLOWER RIVER AT SUNFLOWER, MS

| DATE      | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-----------|------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| MAY 1995  |      |                                                              |                                                                      |                                                 |                                                |
| 17...     | 1210 | 250                                                          | 7.1                                                                  | 28.0                                            | 4.7                                            |
| AUG 09... | 1240 | 497                                                          | 8.0                                                                  | 31.5                                            | 3.4                                            |
| FEB 1996  |      |                                                              |                                                                      |                                                 |                                                |
| 28...     | 1015 | 195                                                          | 7.3                                                                  | 15.0                                            | 8.1                                            |
| MAY 23... | 1030 | 268                                                          | 7.3                                                                  | 28.5                                            | 4.6                                            |
| AUG 16... | 0900 | 463                                                          | 8.0                                                                  | 28.0                                            | 9.0                                            |

07288570 QUIVER RIVER NEAR DODDSVILLE, MS

| DATE      | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-----------|------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| MAY 1995  |      |                                                              |                                                                      |                                                 |                                                |
| 17...     | 1815 | 212                                                          | 6.9                                                                  | 27.5                                            | 5.7                                            |
| AUG 09... | 1010 | 453                                                          | 7.8                                                                  | 30.5                                            | 3.2                                            |
| FEB 1996  |      |                                                              |                                                                      |                                                 |                                                |
| 28...     | 1230 | 123                                                          | --                                                                   | 14.0                                            | 8.8                                            |
| MAY 21... | 1415 | 226                                                          | 7.1                                                                  | 30.5                                            | 4.6                                            |
| JUL 18... | 1100 | 413                                                          | 7.5                                                                  | 29.5                                            | 5.3                                            |
| AUG 14... | 1110 | 437                                                          | 7.8                                                                  | 26.5                                            | 6.0                                            |

## FISH TISSUE DATA

| DATE     | PCB,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49354)               | ALPHA-<br>BHC,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49366)    | BETA-<br>BHC,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49365)     | DELTA-<br>BHC,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49364) | ALDRIN,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49353)                 | CIS-<br>CHLOR-<br>DANE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49380)   | OXY-<br>CHLOR-<br>DANE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49357) | TRANS-<br>CHLOR-<br>DANE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49379)   | DCPA,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49378)                      | O,P'-<br>DDD,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49374) |
|----------|-------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------|
| JUL 1996 |                                                                         |                                                                        |                                                                        |                                                                     |                                                                              |                                                                                |                                                                              |                                                                                  |                                                                                 |                                                                    |
| 18...    | 62.0                                                                    | <5.00                                                                  | <5.00                                                                  | <5.00                                                               | <5.00                                                                        | <5.00                                                                          | <5.00                                                                        | <5.00                                                                            | <5.00                                                                           | <5.00                                                              |
| DATE     | P,P'-<br>DDD,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49375)      | O,P'-<br>DDE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49373)     | P,P'-<br>DDE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49372)     | O,P'-<br>DDT,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49377)  | P,P'-<br>DDT,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49376)           | DIEL-<br>DRIN,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49371)            | ENDRIN,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49370)                 | HEPTA-<br>CHLOR,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49369)            | HEPTA-<br>CHLOR<br>EPOXIDE<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49368) | LINDANE<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49363)       |
| JUL 1996 |                                                                         |                                                                        |                                                                        |                                                                     |                                                                              |                                                                                |                                                                              |                                                                                  |                                                                                 |                                                                    |
| 18...    | E600                                                                    | <5.00                                                                  | E3100                                                                  | <5.00                                                               | <10.0                                                                        | <11.0                                                                          | <5.00                                                                        | <5.00                                                                            | <5.00                                                                           | <5.00                                                              |
| DATE     | METHOXY<br>LIPIDS,<br>BIOTA,<br>WH ORG<br>WW, REC<br>PERCENT<br>(49289) | METHOXY<br>O,P'-,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49362) | METHOXY<br>P,P'-,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49361) | MIREX,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49360)         | CIS-<br>NONA-<br>CHLOR,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49359) | TRANS-<br>NONA-<br>CHLOR,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49358) | TOXA-<br>PHENE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49355)         | BENZENE<br>HEXA-<br>CHLORO-<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49367) | PENTA<br>CHLORO<br>ANISOLE<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49356) |                                                                    |
| JUL 1996 |                                                                         |                                                                        |                                                                        |                                                                     |                                                                              |                                                                                |                                                                              |                                                                                  |                                                                                 |                                                                    |
| 18...    | 3.20                                                                    | <5.00                                                                  | <5.00                                                                  | <5.00                                                               | <5.00                                                                        | <5.00                                                                          | E530                                                                         | <5.00                                                                            | <5.00                                                                           |                                                                    |

## WATER QUALITY DATA, APRIL 1995 TO SEPTEMBER 1996

## NATIONAL WATER-QUALITY ASSESSMENT PROGRAM

## LOWER MISSISSIPPI EMBAYMENT STUDY--Continued

## 07288600 QUIVER RIVER NEAR MOORHEAD, MS

| DATE     | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|----------|------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| MAY 1995 |      |                                                              |                                                                      |                                                 |                                                |
| 17...    | 1230 | 239                                                          | 7.2                                                                  | 27.5                                            | 5.8                                            |
| AUG      |      |                                                              |                                                                      |                                                 |                                                |
| 09...    | 1355 | 445                                                          | 7.8                                                                  | 31.0                                            | 4.5                                            |
| FEB 1996 |      |                                                              |                                                                      |                                                 |                                                |
| 28...    | 1045 | 223                                                          | 7.5                                                                  | 15.5                                            | 8.0                                            |
| MAY      |      |                                                              |                                                                      |                                                 |                                                |
| 23...    | 1100 | 351                                                          | 7.5                                                                  | 28.5                                            | 5.5                                            |
| AUG      |      |                                                              |                                                                      |                                                 |                                                |
| 16...    | 0830 | 452                                                          | 7.6                                                                  | 27.5                                            | 8.5                                            |

## 332554090503100 BOGUE PHALIA NEAR ELIZABETH, MS

| DATE     | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|----------|------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| MAY 1996 |      |                                                              |                                                                      |                                                 |                                                |
| 17...    | 1425 | 390                                                          | 7.5                                                                  | 26.0                                            | 7.4                                            |
| JUL      |      |                                                              |                                                                      |                                                 |                                                |
| 29...    | 1500 | 514                                                          | 7.8                                                                  | 29.0                                            | 6.0                                            |
| AUG      |      |                                                              |                                                                      |                                                 |                                                |
| 29...    | 1230 | 581                                                          | 7.8                                                                  | 27.0                                            | 6.3                                            |

| DATE     | TIME  | 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)          | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA)<br>(00930)                  | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K)<br>(00935)                 | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4)<br>(00945)                                | 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)             | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2)<br>(00955) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) |
|----------|-------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------------------------|
| JUL 1996 |       |                                                                          |                                                                          |                                                                          |                                                                                |                                                                                         |                                                                |                                                                           |                                                              |                                                                               |
| 29...    | 1500  | 59                                                                       | 20                                                                       | 19                                                                       | 3.6                                                                            | 40                                                                                      | 6.9                                                            | 0.20                                                                      | 21                                                           | 319                                                                           |
| DATE     | TIME  | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | 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, AM-<br>MONIA +<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00623) | PHOS-<br>PHORUS<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00665) | PHOS-<br>PHORUS<br>ORTHOR-<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00666) | 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)               |
| JUL 1996 |       |                                                                          |                                                                          |                                                                          |                                                                                |                                                                                         |                                                                |                                                                           |                                                              |                                                                               |
| 29...    | 0.050 | 0.360                                                                    | 0.070                                                                    | 1.2                                                                      | 0.50                                                                           | 0.180                                                                                   | 0.090                                                          | 0.090                                                                     | 6.0                                                          | 10                                                                            |

## 07288655 BOGUE PHALIA AT DARLOVE, MS

| DATE     | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|----------|------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| MAY 1995 |      |                                                              |                                                                      |                                                 |                                                |
| 17...    | 1550 | 499                                                          | 8.2                                                                  | 29.0                                            | 10.8                                           |
| AUG      |      |                                                              |                                                                      |                                                 |                                                |
| 08...    | 1445 | 574                                                          | 8.2                                                                  | 32.0                                            | 8.8                                            |
| FEB 1996 |      |                                                              |                                                                      |                                                 |                                                |
| 29...    | 1245 | 251                                                          | 7.5                                                                  | 11.0                                            | 10.0                                           |
| MAY      |      |                                                              |                                                                      |                                                 |                                                |
| 23...    | 1445 | 384                                                          | 8.5                                                                  | 33.5                                            | 11.3                                           |
| AUG      |      |                                                              |                                                                      |                                                 |                                                |
| 13...    | 1340 | 390                                                          | 7.9                                                                  | 26.0                                            | --                                             |

## 07288680 BIG SUNFLOWER RIVER AT LITTLE CALLAO LANDING, MS

| DATE     | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|----------|------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| AUG 1995 |      |                                                              |                                                                      |                                                 |                                                |
| 08...    | 1230 | 503                                                          | 8.1                                                                  | 32.0                                            | 8.5                                            |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

WATER QUALITY DATA, APRIL 1995 TO SEPTEMBER 1996

## NATIONAL WATER-QUALITY ASSESSMENT PROGRAM

LOWER MISSISSIPPI EMBAYMENT STUDY--Continued

07288700 BIG SUNFLOWER RIVER NEAR ANGUILLA, MS

| DATE     | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|----------|------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| APR 1995 |      |                                                              |                                                                      |                                                 |                                                |
| 12...    | 1605 | 214                                                          | 7.0                                                                  | 21.0                                            | --                                             |
| 19...    | 1400 | 213                                                          | 7.2                                                                  | 24.5                                            | 5.1                                            |
| MAY      |      |                                                              |                                                                      |                                                 |                                                |
| 03...    | 1420 | 110                                                          | 6.7                                                                  | 19.0                                            | 4.6                                            |
| 16...    | 1600 | 196                                                          | 7.1                                                                  | 27.5                                            | 4.5                                            |
| 23...    | 1330 | 238                                                          | 8.6                                                                  | 28.5                                            | 11.3                                           |
| 30...    | 1505 | 314                                                          | 7.2                                                                  | 27.5                                            | 3.3                                            |
| JUN      |      |                                                              |                                                                      |                                                 |                                                |
| 13...    | 1440 | 207                                                          | 7.0                                                                  | 20.5                                            | 3.0                                            |
| 27...    | 1250 | 305                                                          | 7.8                                                                  | 30.0                                            | 7.8                                            |
| JUL      |      |                                                              |                                                                      |                                                 |                                                |
| 05...    | 1350 | 403                                                          | 7.3                                                                  | 28.0                                            | 2.2                                            |
| 12...    | 1610 | 156                                                          | 6.8                                                                  | 28.5                                            | 2.7                                            |
| 18...    | 1500 | 243                                                          | 7.2                                                                  | 32.0                                            | 3.3                                            |
| 25...    | 1430 | 410                                                          | 7.7                                                                  | 32.5                                            | 6.4                                            |
| AUG      |      |                                                              |                                                                      |                                                 |                                                |
| 01...    | 1510 | 485                                                          | 8.2                                                                  | 32.5                                            | 9.1                                            |
| 08...    | 1555 | 425                                                          | 7.8                                                                  | 31.5                                            | 6.8                                            |
| 14...    | 1300 | 514                                                          | 7.9                                                                  | 33.0                                            | 6.3                                            |
| 21...    | 1200 | 549                                                          | 7.8                                                                  | 34.0                                            | 4.8                                            |
| 23...    | 1200 | 539                                                          | 7.7                                                                  | 33.0                                            | 4.7                                            |
| 29...    | 1300 | 547                                                          | 7.8                                                                  | 31.5                                            | 6.4                                            |
| SEP      |      |                                                              |                                                                      |                                                 |                                                |
| 12...    | 1310 | 568                                                          | 8.2                                                                  | 29.5                                            | 12.9                                           |
| 26...    | 1355 | 587                                                          | 8.3                                                                  | 26.5                                            | 12.1                                           |
| OCT      |      |                                                              |                                                                      |                                                 |                                                |
| 12...    | 1300 | 582                                                          | 8.5                                                                  | 25.0                                            | --                                             |
| NOV      |      |                                                              |                                                                      |                                                 |                                                |
| 01...    | 1012 | 590                                                          | 7.7                                                                  | 18.5                                            | 6.1                                            |
| JAN 1996 |      |                                                              |                                                                      |                                                 |                                                |
| 23...    | 1135 | 200                                                          | 7.2                                                                  | 8.5                                             | 10.7                                           |
| FEB      |      |                                                              |                                                                      |                                                 |                                                |
| 29...    | 1045 | 242                                                          | 6.5                                                                  | 15.0                                            | 7.3                                            |
| MAR      |      |                                                              |                                                                      |                                                 |                                                |
| 12...    | 1220 | 238                                                          | 7.5                                                                  | 10.0                                            | 10.4                                           |
| APR      |      |                                                              |                                                                      |                                                 |                                                |
| 10...    | 1220 | 151                                                          | 6.5                                                                  | 15.5                                            | 6.5                                            |
| 25...    | 1230 | 65                                                           | 6.5                                                                  | 20.5                                            | 5.5                                            |
| MAY      |      |                                                              |                                                                      |                                                 |                                                |
| 09...    | 1030 | 124                                                          | 6.7                                                                  | 25.0                                            | 4.0                                            |
| 23...    | 1110 | 222                                                          | 7.3                                                                  | 29.0                                            | 6.0                                            |
| JUN      |      |                                                              |                                                                      |                                                 |                                                |
| 03...    | 1750 | 122                                                          | 6.1                                                                  | 25.0                                            | 3.2                                            |
| 18...    | 1230 | 252                                                          | 7.1                                                                  | 29.0                                            | 4.5                                            |
| 19...    | 1510 | 253                                                          | 7.1                                                                  | 29.5                                            | 2.3                                            |
| JUL      |      |                                                              |                                                                      |                                                 |                                                |
| 03...    | 1100 | 317                                                          | 7.2                                                                  | 32.5                                            | 4.1                                            |
| 17...    | 1110 | 472                                                          | 7.5                                                                  | 29.5                                            | 2.7                                            |
| 18...    | 1400 | 512                                                          | 7.7                                                                  | 31.5                                            | 5.7                                            |
| 29...    | 1630 | 295                                                          | 7.3                                                                  | 28.5                                            | 4.8                                            |
| AUG      |      |                                                              |                                                                      |                                                 |                                                |
| 06...    | 0905 | 265                                                          | 7.2                                                                  | 29.0                                            | 4.3                                            |
| 13...    | 1555 | 340                                                          | 7.5                                                                  | 28.5                                            | --                                             |
| 29...    | 1350 | 495                                                          | 7.8                                                                  | 29.0                                            | 8.4                                            |
| SEP      |      |                                                              |                                                                      |                                                 |                                                |
| 09...    | 1315 | 514                                                          | 8.0                                                                  | 29.5                                            | 8.1                                            |
| 16...    | 1415 | 505                                                          | 8.0                                                                  | 28.0                                            | 7.1                                            |

## BED SEDIMENT DATA

| DATE     | CALCIUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34830) | MAGNE-<br>SIUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34900) | SODIUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34960)       | POTAS-<br>SIUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34940) | SULFUR<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34970)         | PHOS-<br>PHORUS<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34935) | ALUM-<br>INUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34790) | ANTI-<br>MONY<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34795) | ARSENIC<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34800)       | BARIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34805) | BERYL-<br>LIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34810)  | BISMUTH<br>BOT MAT<br><180UWS<br>FIELD<br>(UG/G)<br>(34816)       |
|----------|--------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|
| SEP 1995 |                                                              |                                                                     |                                                                   |                                                                     |                                                                    |                                                                      |                                                                    |                                                                   |                                                                   |                                                            |                                                                     |                                                                   |
| 12...    | 0.79                                                         | 1.0                                                                 | 0.48                                                              | 1.8                                                                 | <0.05                                                              | 0.11                                                                 | 8.2                                                                | 0.9                                                               | 11                                                                | 680                                                        | 2                                                                   | <10                                                               |
| DATE     | CADMIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34825)  | CERIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34835)          | CHRO-<br>MIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34840) | COBALT<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34845)          | COPPER<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34850)         | EURO-<br>PIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34855)    | GALLIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34860)        | GOLD<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34870)          | HOLMIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34875)       | IRON<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34880)  | LANTHA-<br>NIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34885) | LEAD<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34890)          |
| SEP 1995 |                                                              |                                                                     |                                                                   |                                                                     |                                                                    |                                                                      |                                                                    |                                                                   |                                                                   |                                                            |                                                                     |                                                                   |
| 12...    | 0.5                                                          | 79                                                                  | 82                                                                | 14                                                                  | 33                                                                 | <2                                                                   | 18                                                                 | <8                                                                | <4                                                                | 3.9                                                        | 41                                                                  | 23                                                                |
| DATE     | LITHIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34895)  | MANGA-<br>NESE<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34905)  | MERCURY<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34910)       | MOLYB-<br>DENUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34915) | NEODYM-<br>IUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34920) | NICKEL<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34925)           | NIOBIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34930)        | SCAN-<br>DIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34945) | SELE-<br>NIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34950) | SILVER<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34955) | STRON-<br>TIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34965)  | TANTA-<br>LUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34975) |
| SEP 1995 |                                                              |                                                                     |                                                                   |                                                                     |                                                                    |                                                                      |                                                                    |                                                                   |                                                                   |                                                            |                                                                     |                                                                   |
| 12...    | 50                                                           | 540                                                                 | 0.07                                                              | <2                                                                  | 34                                                                 | 34                                                                   | 21                                                                 | 13                                                                | 0.8                                                               | 0.3                                                        | 120                                                                 | <40                                                               |

## WATER QUALITY DATA, APRIL 1995 TO SEPTEMBER 1996

## NATIONAL WATER-QUALITY ASSESSMENT PROGRAM

## LOWER MISSISSIPPI EMBAYMENT STUDY--Continued

07288700 BIG SUNFLOWER RIVER NEAR ANGUILLA, MS--Continued

## BED SEDIMENT DATA--Continued

| DATE              | THORIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34980)                         | TIN<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34985)                              | TITANIUM,<br>SED, BM<br>WS, <63U<br>DRY WGT<br>PERCENT<br>(49274)                      | URANIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(35000)                            | VANADIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(35005)                           | YTTERBIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(35015)                         | YTTRIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(35010)                           | ZINC<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(35020)                              | CARBON,<br>ORGANIC<br>SED, BM<br>WS, <63U<br>DW, REC<br>(PER-<br>CENT)<br>(49266)    | CARBON,<br>ORGANIC<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(G/KG)<br>(49271)             | CARBON,<br>SED, BM<br>WS, <63U<br>DW, REC<br>(PER-<br>CENT)<br>(49269)                | CARBON,<br>INORG,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(G/KG)<br>(49270)              |
|-------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| SEP 1995<br>12... | 11                                                                                  | <10                                                                                  | 0.380                                                                                  | 4.1                                                                                    | 150                                                                                    | 2                                                                                     | 24                                                                                    | 130                                                                                   | 1.18                                                                                 | 13.0                                                                                  | 0.04                                                                                  | <0.100                                                                                |
| DATE              | PCB,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49359)                        | ALPHA-<br>BHC,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49338)               | BETA-<br>BHC,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49339)                  | ALDRIN,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49319)                        | CIS-<br>CHLOR-<br>DANE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49320)        | OXY-<br>CHLOR-<br>DANE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49318)       | TRANS-<br>CHLOR-<br>DANE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49321)     | CHLORO-<br>NEB,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49322)               | DCPA,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49324)                        | O, P'-<br>DDD,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49325)                | P, P'-<br>DDD,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49326)                | O, P'-<br>DDE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49327)                |
| SEP 1995<br>12... | <50                                                                                 | <1.00                                                                                | <1.00                                                                                  | <1.00                                                                                  | <2.00                                                                                  | <1.00                                                                                 | <2.00                                                                                 | <5.00                                                                                 | <5.00                                                                                | 9.80                                                                                  | E43.0                                                                                 | 2.80                                                                                  |
| DATE              | P, P'-<br>DDE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49328)              | O, P'-<br>DDT,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49329)               | P, P'-<br>DDT,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49330)                 | DIEL-<br>DRIN,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49331)                 | ENDO-<br>SULFAN<br>I,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49332)          | ENDRIN,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49335)                       | HEPTA-<br>CHLOR,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49341)              | HEPTA-<br>CHLOR<br>EPOXIDE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49342)    | ISODRIN<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49344)                      | LINDANE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49345)                       | METHOXY<br>CHLOR,<br>O, P'-,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49347)  | METHOXY<br>CHLOR<br>P, P'-,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49346)   |
| SEP 1995<br>12... | 51.0                                                                                | 8.70                                                                                 | 18.0                                                                                   | <1.00                                                                                  | <1.00                                                                                  | <2.00                                                                                 | <1.00                                                                                 | <1.00                                                                                 | <1.00                                                                                | <1.00                                                                                 | <5.00                                                                                 | <5.00                                                                                 |
| DATE              | MIREX,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49348)                      | CIS-<br>NONA-<br>CHLOR,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49316)      | TRANS-<br>NONA-<br>CHLOR,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49317)      | CIS-<br>PER-<br>METHRIN<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49349)        | TRANS-<br>PER-<br>METHRIN<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49350)      | TOXA-<br>PHENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49351)                | ACENAPH<br>THENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49429)              | ACENAPH<br>THYLENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49428)            | ACRI-<br>DINE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49430)                | PHENOL<br>C8-<br>ALKYL-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49424)       | ANTHRA-<br>CENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49434)               | 9,10-<br>ANTHRA-<br>QUINONE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49437)   |
| SEP 1995<br>12... | <1.00                                                                               | <1.00                                                                                | <2.00                                                                                  | <5.00                                                                                  | <5.00                                                                                  | <200                                                                                  | <50                                                                                   | E29                                                                                   | <50                                                                                  | <50                                                                                   | E18                                                                                   | <50                                                                                   |
| DATE              | AZO-<br>BENZENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49443)             | BENZ(A)<br>ANTHRA-<br>CENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49436)   | BENZOC<br>NNOLINE<br>BED MAT<br>WS, <2MM<br>REC<br>(UG/KG)<br>(49468)                  | BENZOB<br>FLUOR-<br>ANTHENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49458)    | BENZO K<br>FLUOR-<br>ANTHENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49397)   | BENZO(G<br>HI) PERY<br>LENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49408)   | BENZO<br>(A)<br>PYRENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49389)        | 2,2'-BI<br>QUINO-<br>LINE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49391)    | METHANE<br>2CHLORO<br>ETHER<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49401)  | PHTHALA<br>TE, BIS2<br>ETHOXY<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49426) | 4-BROMO<br>PHNPHNL<br>ETHER<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49454)   | PHTHALA<br>TEBUTYL<br>BENZYL-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49427) |
| SEP 1995<br>12... | <50                                                                                 | E25                                                                                  | <50                                                                                    | E53                                                                                    | E41                                                                                    | <50                                                                                   | E47                                                                                   | <50                                                                                   | <50                                                                                  | E80                                                                                   | <50                                                                                   | E57                                                                                   |
| DATE              | CARBA-<br>ZOLE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49449)              | M-CRE-<br>SOL, 4-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49422) | NAPHTHAL<br>ENE, 2-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49407) | PHENOL,<br>2CHLORO<br>BED MAT<br>WS, <2MM<br>REC<br>(UG/KG)<br>(49467)                 | 4CHLORO<br>PHNPHN<br>LETHR<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49455)     | CHRY-<br>SENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49450)                 | P-<br>CRESOL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49451)                  | DIBENZ<br>(AH), AN<br>THRACEN<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49461) | THIOPH<br>ENE, DI-<br>BENZO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49452) | PHTHAL-<br>ATE, D<br>DIBUTYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49381)  | BENZENE<br>O-DI-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49439)   | BENZENE<br>M-DI-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49441)   |
| SEP 1995<br>12... | <50                                                                                 | <50                                                                                  | <50                                                                                    | <50                                                                                    | <50                                                                                    | E23                                                                                   | 400                                                                                   | <50                                                                                   | E24                                                                                  | 68                                                                                    | <50                                                                                   | <50                                                                                   |
| DATE              | BENZENE<br>P-DI-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49442) | PHTHAL-<br>ATE, D<br>IETHYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49383)  | NAPHTHAL<br>ENE, 12<br>DIMETHL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49403) | NAPHTHAL<br>ENE, 16<br>DIMETHL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49404) | NAPHTHAL<br>ENE, 26<br>DIMETHL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49406) | 3,5-<br>XYLENOL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49421)               | PHTHAL-<br>ATE, DI-<br>METHYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49384) | TOLUENE<br>2,4-DI-<br>NITRO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49395)  | TOLUENE<br>2,6-DI-<br>NITRO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49396) | PHTHAL<br>ATE, D<br>IOCTYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49382)    | NAPHTHAL<br>ENE, 2-<br>ETHYL-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49948) | FLUOR-<br>ANTHENE<br>BED MAT<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49466)             |
| SEP 1995<br>12... | <50                                                                                 | E34                                                                                  | <50                                                                                    | E23                                                                                    | E42                                                                                    | <50                                                                                   | E12                                                                                   | <50                                                                                   | <50                                                                                  | <50                                                                                   | <50.0                                                                                 | E29                                                                                   |
| DATE              | 9H-FLU-<br>ORENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49399)            | BENZENE<br>HEXA-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49343)  | INDENO<br>123-CD<br>PYRENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49390)     | ISOPHOR<br>ONE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49400)                 | ISO-<br>QUINO-<br>LINE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49394)        | ANTHRA-<br>CENE, 2-<br>METHYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49435) | 9H-FLU-<br>ORENE,<br>1METHYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49398)  | PHENAN<br>THRENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49410)              | PYRENE,<br>1-<br>METHYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49388)      | 4HCYPEN<br>PHENAN<br>THRENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49411)   | NAPHTH-<br>ALENE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49402)             | BENZENE<br>NITRO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49444)             |
| SEP 1995<br>12... | E22                                                                                 | <50.0                                                                                | <50                                                                                    | <50                                                                                    | <50                                                                                    | <50                                                                                   | <50                                                                                   | E15                                                                                   | E39                                                                                  | E16                                                                                   | E12                                                                                   | <50                                                                                   |



## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

WATER QUALITY DATA, APRIL 1995 TO SEPTEMBER 1996

## NATIONAL WATER-QUALITY ASSESSMENT PROGRAM

LOWER MISSISSIPPI EMBAYMENT STUDY--Continued

07288700 BIG SUNFLOWER RIVER NEAR ANGUILLA, MS--Continued

## BED SEDIMENT DATA--Continued

| DATE              | DPROPYL<br>AMINE, N<br>NITROSO<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49431) | DIPHNYL<br>AMINE, N<br>NITROSO<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49433) | PENTA-<br>CHLORO-<br>ANISOLE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49460) | BENZENE<br>PNTCHLR<br>NITRO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49446) | PHENAN-<br>THRENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49409) | PHENAN-<br>THRI-<br>DINE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49393) | PHENOL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49413) | PYRENE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49387) | QUINO-<br>LINE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49392) | BENZENE<br>124TRI-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49438) | NAPHTHAL<br>ENE, 236<br>TRIMETH<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49405) |
|-------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| SEP 1995<br>12... | <50                                                                                    | <50                                                                                    | <50                                                                                  | <50                                                                                  | E8.0                                                                      | <50                                                                              | E13                                                            | E29                                                             | <50                                                                    | <50                                                                                   | <50                                                                                     |

## FISH LIVER DATA

| DATE              | ALUMI-<br>NUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49237) | ANTI-<br>MONY,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49246)  | ARSENIC<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49247) | BARIUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49238)          | BERYL-<br>LIUM-<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49248) | BORON,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49239)         | CADMIUM<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49249) | CHROM-<br>IUM-<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49240)  | COBALT,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49250) | COPPER,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49241)      | IRON,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49242) |
|-------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------|
| AUG 1995<br>21... | 82                                                                         | <0.2                                                                        | 1.0                                                                 | 0.7                                                                          | <0.2                                                                        | 0.7                                                                        | 8.2                                                                 | 0.5                                                                         | 0.2                                                                 | 100                                                                      | 610                                                               |
| DATE              | LEAD,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49251)          | MANGAN-<br>ESE,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49243) | MERCURY<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49258) | MOLYB-<br>DENUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49252) | NICKEL,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49253)         | SELEN-<br>IUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49254) | SILVER,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49255) | STRON-<br>TIUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49244) | URANIUM<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49257) | VANA-<br>DIUM<br>BIO TIS<br>LIVER<br>DRY WGT<br>REC<br>(UG/G)<br>(49465) | ZINC,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49245) |
| AUG 1995<br>21... | <0.2                                                                       | 3.9                                                                         | 0.4                                                                 | 1.9                                                                          | 0.2                                                                         | 7.3                                                                        | 0.5                                                                 | 0.5                                                                         | <0.2                                                                | 2.9                                                                      | 440                                                               |

## FISH TISSUE DATA

| DATE              | PCB,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49354)           | ALPHA-<br>BHC,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49366)               | BETA-<br>BHC,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49365)                | DELTA-<br>BHC,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49364) | ALDRIN,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49353)                 | CIS-<br>CHLOR-<br>DANE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49380)   | OXY-<br>CHLOR<br>DANE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49357) | TRANS-<br>CHLOR-<br>DANE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49379)   | DCPA,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49378)                      | O, P'-<br>DDD,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49374) |
|-------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------|
| AUG 1995<br>21... | 50.0                                                                | <5.00                                                                             | <5.00                                                                             | <5.00                                                               | <5.00                                                                        | <6.00                                                                          | <5.00                                                                       | <5.00                                                                            | <5.00                                                                           | 100                                                                 |
| DATE              | P, P'-<br>DDD,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49375) | O, P'-<br>DDE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49373)               | P, P'-<br>DDE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49372)               | O, P'-<br>DDT,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49377) | P, P'-<br>DDT,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49376)          | DIEL-<br>DRIN,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49371)            | ENDRIN,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49370)                | HEPTA-<br>CHLOR,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49369)            | HEPTA-<br>CHLOR<br>EPOXIDE<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49368) | LINDANE<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49363)        |
| AUG 1995<br>21... | E1100                                                               | 28.0                                                                              | 3700                                                                              | 35.0                                                                | 87.0                                                                         | 23.0                                                                           | <15.0                                                                       | <5.00                                                                            | <5.00                                                                           | <5.00                                                               |
| DATE              | LIPIDS,<br>BIOTA,<br>WH ORG<br>WW, REC<br>PERCENT<br>(49289)        | METHOXY<br>CHLOR,<br>O, P'-,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49362) | METHOXY<br>CHLOR,<br>P, P'-,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49361) | MIREX,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49360)         | CIS-<br>NONA-<br>CHLOR,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49359) | TRANS-<br>NONA-<br>CHLOR,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49358) | TOXA-<br>PHENE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49355)        | BENZENE<br>HEXA-<br>CHLORO-<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49367) | PENTA<br>CHLORO<br>ANISOLE<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49356) |                                                                     |
| AUG 1995<br>21... |                                                                     | 4.60                                                                              | <25.0                                                                             | <5.00                                                               | 5.70                                                                         | <7.00                                                                          | <10.0                                                                       | 2100                                                                             | <5.00                                                                           | <5.00                                                               |

## WATER QUALITY DATA, APRIL 1995 TO SEPTEMBER 1996

## NATIONAL WATER-QUALITY ASSESSMENT PROGRAM

## LOWER MISSISSIPPI EMBAYMENT STUDY--Continued

07288770 DEER CREEK NEAR HOLLANDALE, MS

| DATE     | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|----------|------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| APR 1995 |      |                                                              |                                                                      |                                                 |                                                |
| 12...    | 1455 | 137                                                          | 7.0                                                                  | 20.0                                            | 5.9                                            |
| 19...    | 1240 | 182                                                          | 7.2                                                                  | 22.5                                            | 5.6                                            |
| MAY      |      |                                                              |                                                                      |                                                 |                                                |
| 03...    | 1320 | 98                                                           | 6.7                                                                  | 8.5                                             | 6.3                                            |
| 16...    | --   | 141                                                          | 7.0                                                                  | 28.5                                            | 4.5                                            |
| 30...    | 1430 | 178                                                          | 6.9                                                                  | 24.0                                            | 1.6                                            |
| JUN      |      |                                                              |                                                                      |                                                 |                                                |
| 13...    | 1335 | 222                                                          | 7.3                                                                  | 26.5                                            | 5.9                                            |
| 27...    | 1420 | 213                                                          | 7.3                                                                  | 28.0                                            | 4.5                                            |
| JUL      |      |                                                              |                                                                      |                                                 |                                                |
| 05...    | 1252 | 217                                                          | 7.2                                                                  | 25.5                                            | 2.6                                            |
| 12...    | 1510 | 173                                                          | 7.0                                                                  | 29.5                                            | 4.6                                            |
| 18...    | 1410 | 157                                                          | 6.9                                                                  | 31.0                                            | 4.2                                            |
| 25...    | 1330 | 176                                                          | 7.2                                                                  | 30.5                                            | 5.0                                            |
| AUG      |      |                                                              |                                                                      |                                                 |                                                |
| 01...    | 1345 | 234                                                          | 7.3                                                                  | 29.0                                            | 3.1                                            |
| 08...    | 1700 | 188                                                          | 7.2                                                                  | 31.5                                            | 5.2                                            |
| 14...    | 1200 | 208                                                          | 7.1                                                                  | 29.5                                            | 3.3                                            |
| 23...    | 1130 | 243                                                          | 7.1                                                                  | 29.5                                            | 4.0                                            |
| 29...    | 1225 | 341                                                          | 6.9                                                                  | 29.0                                            | 2.8                                            |
| SEP      |      |                                                              |                                                                      |                                                 |                                                |
| 12...    | 1200 | 482                                                          | 7.7                                                                  | 24.0                                            | 6.8                                            |
| 26...    | 1305 | 660                                                          | 7.6                                                                  | 21.0                                            | 2.8                                            |
| OCT      |      |                                                              |                                                                      |                                                 |                                                |
| 12...    | 1222 | 482                                                          | 7.7                                                                  | --                                              | 6.8                                            |
| 12...    | 1230 | 807                                                          | 8.3                                                                  | 19.5                                            | 8.5                                            |
| NOV      |      |                                                              |                                                                      |                                                 |                                                |
| 01...    | 1100 | 817                                                          | 7.9                                                                  | 16.0                                            | 4.2                                            |
| JAN 1996 |      |                                                              |                                                                      |                                                 |                                                |
| 23...    | 1235 | 301                                                          | 7.3                                                                  | 8.0                                             | 5.3                                            |
| FEB      |      |                                                              |                                                                      |                                                 |                                                |
| 29...    | 1115 | 271                                                          | 7.1                                                                  | 12.0                                            | 4.6                                            |
| MAR      |      |                                                              |                                                                      |                                                 |                                                |
| 12...    | 1145 | 319                                                          | 7.7                                                                  | 8.0                                             | 9.3                                            |
| APR      |      |                                                              |                                                                      |                                                 |                                                |
| 10...    | 1325 | 262                                                          | 7.1                                                                  | 11.0                                            | 12.1                                           |
| MAY      |      |                                                              |                                                                      |                                                 |                                                |
| 21...    | 1230 | 174                                                          | 7.0                                                                  | 26.5                                            | 1.3                                            |
| JUL      |      |                                                              |                                                                      |                                                 |                                                |
| 17...    | 1400 | 403                                                          | 7.3                                                                  | 29.0                                            | 3.1                                            |
| AUG      |      |                                                              |                                                                      |                                                 |                                                |
| 13...    | 1510 | 260                                                          | 7.2                                                                  | 28.0                                            | --                                             |

## FISH TISSUE DATA

| DATE     | PCB,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49354)                         | ALPHA-<br>BHC,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49366)               | BETA-<br>BHC,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49365)                | DELTA-<br>BHC,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49364) | ALDRIN,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49353)                 | CIS-<br>CHLOR-<br>DANE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49380)   | OXY-<br>CHLOR-<br>DANE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49357) | TRANS-<br>CHLOR-<br>DANE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49379)   | DCPA,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49378)                       | O, P'-<br>DDD,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49374) |
|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------|
| JUL 1996 |                                                                                   |                                                                                   |                                                                                   |                                                                     |                                                                              |                                                                                |                                                                              |                                                                                  |                                                                                  |                                                                     |
| 17...    | 260                                                                               | <9.00                                                                             | <5.00                                                                             | <5.00                                                               | <5.00                                                                        | E23.0                                                                          | <5.00                                                                        | E23.0                                                                            | <5.00                                                                            | <5.00                                                               |
| DATE     | P, P'-<br>DDD,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49375)               | O, P'-<br>DDE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49373)               | P, P'-<br>DDE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49372)               | O, P'-<br>DDT,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49377) | P, P'-<br>DDT,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49376)          | DIEL-<br>DRIN,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49371)            | ENDRIN,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49370)                 | HEPTA-<br>CHLOR-<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49369)            | HEPTA-<br>CHLOR-<br>EPOXIDE<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49368) | LINDANE<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49363)        |
| JUL 1996 |                                                                                   |                                                                                   |                                                                                   |                                                                     |                                                                              |                                                                                |                                                                              |                                                                                  |                                                                                  |                                                                     |
| 17...    | E1500                                                                             | 64.0                                                                              | E5400                                                                             | <5.00                                                               | <55.0                                                                        | <78.0                                                                          | <56.0                                                                        | <5.00                                                                            | <5.00                                                                            | <10.0                                                               |
| DATE     | METHOXY<br>CHLOR,<br>LIPIDS,<br>BIOTA,<br>WH ORG<br>WW, REC<br>PERCENT<br>(49289) | METHOXY<br>CHLOR,<br>O, P'-,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49362) | METHOXY<br>CHLOR,<br>P, P'-,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49361) | MIREX,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49360)         | CIS-<br>NONA-<br>CHLOR,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49359) | TRANS-<br>NONA-<br>CHLOR,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49358) | TOXA-<br>PHENE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49355)         | BENZENE<br>HEXA-<br>CHLORO-<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49367) | PENTA<br>CHLORO<br>ANISOLE<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49356)  |                                                                     |
| JUL 1996 |                                                                                   |                                                                                   |                                                                                   |                                                                     |                                                                              |                                                                                |                                                                              |                                                                                  |                                                                                  |                                                                     |
| 17...    | 9.40                                                                              | <17.0                                                                             | <5.00                                                                             | <5.00                                                               | <420                                                                         | <35.0                                                                          | E3900                                                                        | <5.00                                                                            | <12.0                                                                            |                                                                     |

## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

WATER QUALITY DATA, APRIL 1995 TO SEPTEMBER 1996

NATIONAL WATER-QUALITY ASSESSMENT PROGRAM

LOWER MISSISSIPPI EMBAYMENT STUDY--Continued

07288790 DEER CREEK NEAR VALLEY PARK, MS

| DATE     | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|----------|------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| MAY 1995 |      |                                                              |                                                                      |                                                 |                                                |
| 16...    | 0915 | 133                                                          | 6.6                                                                  | 27.5                                            | 4.4                                            |
| AUG      |      |                                                              |                                                                      |                                                 |                                                |
| 08...    | 1010 | 125                                                          | 7.1                                                                  | 30.0                                            | 4.5                                            |
| FEB 1996 |      |                                                              |                                                                      |                                                 |                                                |
| 28...    | 1610 | 69                                                           | 7.9                                                                  | 15.5                                            | 9.2                                            |
| MAY      |      |                                                              |                                                                      |                                                 |                                                |
| 23...    | 0825 | 127                                                          | 6.8                                                                  | 27.0                                            | 4.1                                            |
| AUG      |      |                                                              |                                                                      |                                                 |                                                |
| 13...    | 1800 | 172                                                          | 8.3                                                                  | 30.5                                            | --                                             |

07288830 BLACK BAYOU NEAR HOLLANDALE, MS

| DATE     | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|----------|------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| MAY 1995 |      |                                                              |                                                                      |                                                 |                                                |
| 16...    | 1400 | 434                                                          | 8.5                                                                  | 28.5                                            | 8.7                                            |
| AUG      |      |                                                              |                                                                      |                                                 |                                                |
| 08...    | 1245 | 516                                                          | 8.3                                                                  | 32.5                                            | 12.8                                           |
| FEB 1996 |      |                                                              |                                                                      |                                                 |                                                |
| 29...    | 1130 | 417                                                          | 8.0                                                                  | 13.0                                            | 9.0                                            |
| MAY      |      |                                                              |                                                                      |                                                 |                                                |
| 21...    | 1210 | 527                                                          | 7.9                                                                  | 27.0                                            | 5.2                                            |
| AUG      |      |                                                              |                                                                      |                                                 |                                                |
| 13...    | 1450 | 333                                                          | 7.1                                                                  | 25.5                                            | --                                             |

07288860 STEELE BAYOU NEAR GRACE, MS

| DATE     | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|----------|------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| MAY 1995 |      |                                                              |                                                                      |                                                 |                                                |
| 16...    | 1245 | 192                                                          | 7.2                                                                  | 28.5                                            | 6.4                                            |
| AUG      |      |                                                              |                                                                      |                                                 |                                                |
| 08...    | 1150 | 472                                                          | 7.9                                                                  | 31.0                                            | 6.6                                            |
| FEB 1996 |      |                                                              |                                                                      |                                                 |                                                |
| 28...    | 1425 | 333                                                          | 7.6                                                                  | 16.5                                            | 6.6                                            |

## WATER QUALITY DATA, APRIL 1995 TO SEPTEMBER 1996

## NATIONAL WATER-QUALITY ASSESSMENT PROGRAM

## LOWER MISSISSIPPI EMBAYMENT STUDY--Continued

07288870 STEELE BAYOU EAST PRONG NEAR ROLLING FORK, MS

| DATE     | TIME | DEPTH<br>AT<br>SAMPLE<br>LOC-<br>TION,<br>TOTAL<br>(FEET)<br>(81903) | SAMPLE<br>LOC-<br>TION,<br>CROSS<br>SECTION<br>(FT FM<br>L BANK)<br>(00009) | SAMPLE<br>LOC-<br>TION,<br>CROSS<br>SECTION<br>(FT FM<br>R BK)<br>(72103) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|----------|------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| APR 1995 |      |                                                                      |                                                                             |                                                                           |                                                              |                                                                      |                                                 |                                                |
| 12...    | 1300 | --                                                                   | --                                                                          | --                                                                        | 96                                                           | 6.6                                                                  | 19.0                                            | 6.1                                            |
| 19...    | 1135 | --                                                                   | --                                                                          | --                                                                        | 187                                                          | 7.1                                                                  | 23.0                                            | 4.6                                            |
| MAY      |      |                                                                      |                                                                             |                                                                           |                                                              |                                                                      |                                                 |                                                |
| 03...    | 1150 | --                                                                   | --                                                                          | --                                                                        | 127                                                          | 6.8                                                                  | 18.5                                            | 5.0                                            |
| 16...    | 1050 | --                                                                   | --                                                                          | --                                                                        | 254                                                          | 7.1                                                                  | 27.0                                            | 4.9                                            |
| 23...    | 1217 | --                                                                   | --                                                                          | --                                                                        | 237                                                          | 7.8                                                                  | 26.0                                            | 8.4                                            |
| 30...    | 1310 | --                                                                   | --                                                                          | --                                                                        | 191                                                          | 7.1                                                                  | 24.5                                            | 4.5                                            |
| JUN      |      |                                                                      |                                                                             |                                                                           |                                                              |                                                                      |                                                 |                                                |
| 13...    | 1200 | --                                                                   | --                                                                          | --                                                                        | 273                                                          | 7.2                                                                  | 26.5                                            | 4.7                                            |
| 13...    | 1215 | 1.00                                                                 | 230                                                                         | --                                                                        | 271                                                          | 6.8                                                                  | 27.0                                            | 5.0                                            |
| 13...    | 1216 | 1.00                                                                 | 210                                                                         | --                                                                        | 272                                                          | 7.1                                                                  | 26.5                                            | 4.9                                            |
| 13...    | 1217 | 1.00                                                                 | 190                                                                         | 1.0                                                                       | 271                                                          | 7.1                                                                  | 26.5                                            | 4.8                                            |
| 13...    | 1218 | 2.00                                                                 | 190                                                                         | 2.0                                                                       | 271                                                          | 7.1                                                                  | 26.5                                            | 4.8                                            |
| 13...    | 1219 | 5.00                                                                 | 190                                                                         | --                                                                        | 271                                                          | 7.2                                                                  | 26.5                                            | 4.8                                            |
| 13...    | 1220 | 1.00                                                                 | 170                                                                         | --                                                                        | 270                                                          | 7.2                                                                  | 26.5                                            | 4.7                                            |
| 13...    | 1221 | 4.00                                                                 | 170                                                                         | --                                                                        | 271                                                          | 7.2                                                                  | 26.5                                            | 4.7                                            |
| 13...    | 1223 | 1.00                                                                 | 150                                                                         | --                                                                        | 273                                                          | 7.2                                                                  | 26.5                                            | 4.6                                            |
| 13...    | 1224 | 3.00                                                                 | 150                                                                         | --                                                                        | 273                                                          | 7.2                                                                  | 26.5                                            | 4.7                                            |
| 13...    | 1226 | 1.00                                                                 | 130                                                                         | --                                                                        | 275                                                          | 7.2                                                                  | 26.5                                            | 4.7                                            |
| 13...    | 1227 | 3.00                                                                 | 130                                                                         | --                                                                        | 281                                                          | 7.2                                                                  | 26.0                                            | 4.7                                            |
| 13...    | 1230 | 1.00                                                                 | 110                                                                         | --                                                                        | 275                                                          | 7.2                                                                  | 26.5                                            | 4.7                                            |
| 13...    | 1231 | 3.00                                                                 | 110                                                                         | --                                                                        | 278                                                          | 7.2                                                                  | 26.0                                            | 4.7                                            |
| 13...    | 1232 | 1.00                                                                 | 90.0                                                                        | --                                                                        | 280                                                          | 7.2                                                                  | 26.0                                            | 4.7                                            |
| 27...    | 1200 | --                                                                   | --                                                                          | --                                                                        | 376                                                          | 7.9                                                                  | 29.0                                            | 7.8                                            |
| JUL      |      |                                                                      |                                                                             |                                                                           |                                                              |                                                                      |                                                 |                                                |
| 05...    | 1135 | --                                                                   | --                                                                          | --                                                                        | 437                                                          | 7.2                                                                  | 26.5                                            | 4.5                                            |
| 12...    | 1340 | --                                                                   | --                                                                          | --                                                                        | 171                                                          | 6.8                                                                  | 30.0                                            | 3.8                                            |
| 18...    | 1215 | --                                                                   | --                                                                          | --                                                                        | 236                                                          | 7.9                                                                  | 32.0                                            | 5.7                                            |
| 25...    | 1200 | --                                                                   | --                                                                          | --                                                                        | 289                                                          | 7.6                                                                  | 32.0                                            | 5.6                                            |
| AUG      |      |                                                                      |                                                                             |                                                                           |                                                              |                                                                      |                                                 |                                                |
| 01...    | 1200 | --                                                                   | --                                                                          | --                                                                        | 440                                                          | 7.7                                                                  | 30.0                                            | 3.9                                            |
| 14...    | 1035 | --                                                                   | --                                                                          | --                                                                        | 492                                                          | 8.0                                                                  | 31.0                                            | 7.7                                            |
| 23...    | 1030 | --                                                                   | --                                                                          | --                                                                        | 472                                                          | 7.8                                                                  | 31.5                                            | 4.3                                            |
| 24...    | 1600 | --                                                                   | --                                                                          | --                                                                        | 534                                                          | 8.0                                                                  | 33.0                                            | 6.0                                            |
| 29...    | 1105 | --                                                                   | --                                                                          | --                                                                        | 512                                                          | 7.9                                                                  | 31.0                                            | 5.6                                            |
| SEP      |      |                                                                      |                                                                             |                                                                           |                                                              |                                                                      |                                                 |                                                |
| 12...    | 1100 | --                                                                   | --                                                                          | --                                                                        | 527                                                          | 8.0                                                                  | 26.0                                            | 7.2                                            |
| 26...    | 1645 | --                                                                   | --                                                                          | --                                                                        | 563                                                          | 8.2                                                                  | 26.0                                            | 8.8                                            |
| OCT      |      |                                                                      |                                                                             |                                                                           |                                                              |                                                                      |                                                 |                                                |
| 12...    | 1330 | --                                                                   | --                                                                          | --                                                                        | 577                                                          | 8.2                                                                  | 24.0                                            | 7.7                                            |
| NOV      |      |                                                                      |                                                                             |                                                                           |                                                              |                                                                      |                                                 |                                                |
| 01...    | 1000 | --                                                                   | --                                                                          | --                                                                        | 592                                                          | 8.0                                                                  | 17.0                                            | 7.6                                            |
| JAN 1996 |      |                                                                      |                                                                             |                                                                           |                                                              |                                                                      |                                                 |                                                |
| 23...    | 1020 | --                                                                   | --                                                                          | --                                                                        | 229                                                          | 7.7                                                                  | 9.0                                             | 10.2                                           |
| FEB      |      |                                                                      |                                                                             |                                                                           |                                                              |                                                                      |                                                 |                                                |
| 28...    | 1445 | --                                                                   | --                                                                          | --                                                                        | 351                                                          | 7.8                                                                  | 16.0                                            | 8.6                                            |
| MAR      |      |                                                                      |                                                                             |                                                                           |                                                              |                                                                      |                                                 |                                                |
| 12...    | 1110 | --                                                                   | --                                                                          | --                                                                        | 420                                                          | 7.9                                                                  | 10.0                                            | 11.0                                           |
| APR      |      |                                                                      |                                                                             |                                                                           |                                                              |                                                                      |                                                 |                                                |
| 10...    | 1110 | --                                                                   | --                                                                          | --                                                                        | 256                                                          | 6.8                                                                  | 13.5                                            | 9.3                                            |
| 25...    | 1100 | --                                                                   | --                                                                          | --                                                                        | 91                                                           | 6.6                                                                  | 20.0                                            | 4.8                                            |
| MAY      |      |                                                                      |                                                                             |                                                                           |                                                              |                                                                      |                                                 |                                                |
| 09...    | 0945 | --                                                                   | --                                                                          | --                                                                        | 191                                                          | 6.7                                                                  | 24.5                                            | 3.8                                            |
| 23...    | 1035 | --                                                                   | --                                                                          | --                                                                        | 274                                                          | 7.4                                                                  | 28.0                                            | 5.3                                            |
| JUN      |      |                                                                      |                                                                             |                                                                           |                                                              |                                                                      |                                                 |                                                |
| 03...    | 1830 | --                                                                   | --                                                                          | --                                                                        | 364                                                          | 7.1                                                                  | 27.5                                            | 3.7                                            |
| 18...    | 1200 | --                                                                   | --                                                                          | --                                                                        | 286                                                          | 8.1                                                                  | 30.5                                            | 9.4                                            |
| 19...    | 1350 | --                                                                   | --                                                                          | --                                                                        | 180                                                          | 7.0                                                                  | 28.0                                            | 3.8                                            |
| JUL      |      |                                                                      |                                                                             |                                                                           |                                                              |                                                                      |                                                 |                                                |
| 03...    | 1000 | --                                                                   | --                                                                          | --                                                                        | 305                                                          | 7.9                                                                  | 31.0                                            | 7.5                                            |
| 17...    | 0945 | --                                                                   | --                                                                          | --                                                                        | 354                                                          | 7.5                                                                  | 29.0                                            | 5.2                                            |
| 18...    | 1445 | --                                                                   | --                                                                          | --                                                                        | 403                                                          | 7.6                                                                  | 30.0                                            | 5.9                                            |
| 29...    | 1653 | --                                                                   | --                                                                          | --                                                                        | 387                                                          | 7.2                                                                  | 28.5                                            | 3.4                                            |
| AUG      |      |                                                                      |                                                                             |                                                                           |                                                              |                                                                      |                                                 |                                                |
| 06...    | 0950 | --                                                                   | --                                                                          | --                                                                        | 267                                                          | 7.1                                                                  | 29.5                                            | 5.4                                            |
| 13...    | 1620 | --                                                                   | --                                                                          | --                                                                        | 287                                                          | 7.5                                                                  | 28.0                                            | --                                             |
| SEP      |      |                                                                      |                                                                             |                                                                           |                                                              |                                                                      |                                                 |                                                |
| 09...    | 1245 | --                                                                   | --                                                                          | --                                                                        | 510                                                          | 8.0                                                                  | 29.5                                            | 7.3                                            |
| 16...    | 1030 | --                                                                   | --                                                                          | --                                                                        | 493                                                          | 7.7                                                                  | 25.5                                            | 6.6                                            |

## BED SEDIMENT DATA

| DATE     | CALCIUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34830) | MAGNE-<br>SIUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34900) | SODIUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34960)       | POTAS-<br>SIUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34940) | SULFUR<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34970) | PHOS-<br>PHORUS<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34935) | ALUM-<br>INUM<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34790) | ANTI-<br>MONY<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34795) | ARSENIC<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34800) | BARIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34805) | BERYL-<br>LIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34810) | BISMUTH<br>BOT MAT<br><180UWS<br>FIELD<br>(UG/G)<br>(34816) |
|----------|--------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------|
| AUG 1995 |                                                              |                                                                     |                                                                   |                                                                     |                                                            |                                                                      |                                                                    |                                                                   |                                                             |                                                            |                                                                    |                                                             |
| 24...    | 0.98                                                         | 0.91                                                                | 0.70                                                              | 1.8                                                                 | <0.05                                                      | 0.12                                                                 | 6.8                                                                | 0.7                                                               | 15                                                          | 660                                                        | 2                                                                  | <10                                                         |
| DATE     | CADMIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34825)  | CERIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34835)          | CHRO-<br>MIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34840) | COBALT<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34845)          | COPPER<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34850) | EURO-<br>PIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34855)    | GALLIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34860)        | GOLD<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34870)          | HOLMIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34875) | IRON<br>BOT MAT<br><63U WS<br>FIELD<br>PERCENT<br>(34880)  | LANTHA-<br>NUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34885) | LEAD<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34890)    |
| AUG 1995 |                                                              |                                                                     |                                                                   |                                                                     |                                                            |                                                                      |                                                                    |                                                                   |                                                             |                                                            |                                                                    |                                                             |
| 24...    | 0.5                                                          | 78                                                                  | 69                                                                | 11                                                                  | 22                                                         | <2                                                                   | 22                                                                 | <8                                                                | <4                                                          | 3.3                                                        | 43                                                                 | 25                                                          |

## WATER QUALITY DATA, APRIL 1995 TO SEPTEMBER 1996

## NATIONAL WATER-QUALITY ASSESSMENT PROGRAM

## LOWER MISSISSIPPI EMBAYMENT STUDY--Continued

## 07288870 STEELE BAYOU EAST PRONG NEAR ROLLING FORK, MS--Continued

## BED SEDIMENT DATA--Continued

|                   | LITHIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34895)             | MANGA-<br>NESE<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34905)                  | MERCURY<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34910)                       | MOLYB-<br>DENUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34915)                 | NEODYM-<br>IUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34920)                   | NICKEL<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34925)                           | NIOBIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34930)                       | SCAN-<br>DIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34945)                   | SELE-<br>NIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34950)                      | SILVER<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34955)                             | STRON-<br>TIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34965)                   | TANTA-<br>LIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34975)                   |
|-------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| AUG 1995<br>24... | 40                                                                      | 600                                                                                 | 0.04                                                                              | <2                                                                                  | 35                                                                                   | 27                                                                                   | 16                                                                                | 10                                                                                  | 0.7                                                                                    | 0.2                                                                                    | 140                                                                                  | <40                                                                                  |
|                   | THORIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34980)             | TIN<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(34985)                             | TITA-<br>NIUM,<br>SED, BM<br>WS, <63U<br>DRY WGT<br>REC<br>(UG/G)<br>(49274)      | URANIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(35000)                         | VANA-<br>BIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(35005)                    | YTTER-<br>BIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(35015)                   | YTTRIUM<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(35010)                       | ZINC<br>BOT MAT<br><63U WS<br>FIELD<br>(UG/G)<br>(35020)                            | CARBON,<br>ORGANIC<br>SED, BM<br>WS, <63U<br>DW, REC<br>(PER-<br>CENT)<br>(49266)      | CARBON,<br>ORGANIC<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(G/KG)<br>(49271)              | CARBON,<br>INORG,<br>SED, BM<br>WS, <63U<br>DW, REC<br>(PER-<br>CENT)<br>(49269)     | CARBON,<br>INORG,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(G/KG)<br>(49270)             |
| AUG 1995<br>24... | 14                                                                      | <10                                                                                 | 0.340                                                                             | 3.8                                                                                 | 110                                                                                  | 2                                                                                    | 23                                                                                | 97                                                                                  | 0.11                                                                                   | 9.10                                                                                   | 1.32                                                                                 | 0.900                                                                                |
|                   | PCB,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49459)            | ALPHA-<br>BHC,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49338)              | BETA-<br>BHC,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49339)             | ALDRIN,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49319)                     | CIS-<br>CHLOR-<br>DANE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49320)      | OXY-<br>CHLOR-<br>DANE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49318)      | TRANS-<br>CHLOR-<br>DANE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49321) | CHLORO-<br>NEB,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49322)             | DCPA,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49324)                          | O, P'-<br>DDD,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49325)                 | P, P'-<br>DDD,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49326)               | O, P'-<br>DDE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49327)               |
| AUG 1995<br>24... | <50                                                                     | <1.00                                                                               | <1.00                                                                             | <1.00                                                                               | <1.00                                                                                | <1.00                                                                                | <1.00                                                                             | <5.00                                                                               | <5.00                                                                                  | 2.70                                                                                   | 17.0                                                                                 | <1.00                                                                                |
|                   | P, P'-<br>DDE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49328)  | O, P'-<br>DDT,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49329)              | P, P'-<br>DDT,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49330)            | DIEL-<br>DRIN,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49331)              | ENDO-<br>SULFAN<br>I,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49332)        | ENDRIN,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49335)                      | HEPTA-<br>CHLOR,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49341)          | HEPTA-<br>CHLOR<br>EPOXIDE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49342)  | ISODRIN<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49344)                        | LINDANE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49345)                        | METHOXY<br>CHLOR,<br>O, P'-,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49347) | METHOXY<br>CHLOR<br>P, P'-,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49346)  |
| AUG 1995<br>24... | 42.0                                                                    | 2.10                                                                                | 5.50                                                                              | <1.00                                                                               | <1.00                                                                                | <2.00                                                                                | <1.00                                                                             | <1.00                                                                               | <1.00                                                                                  | <1.00                                                                                  | <5.00                                                                                | <5.00                                                                                |
|                   | MIREX,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49348)          | CIS-<br>NONA-<br>CHLOR,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49316)     | TRANS-<br>NONA-<br>CHLOR,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49317) | CIS-<br>PER-<br>METHRIN,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49349)    | TRANS-<br>PER-<br>METHRIN<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49350)    | TOXA-<br>PHENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49351)               | ACENAPH<br>THENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49429)          | ACENAPH<br>THYLENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49428)          | ACRI-<br>DINE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49430)                  | PHENOL<br>C8-<br>ALKYL-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49424)        | ANTHRA-<br>CENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49434)              | 9, 10-<br>ANTHRA-<br>QUINONE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49437) |
| AUG 1995<br>24... | <1.00                                                                   | <1.00                                                                               | <1.00                                                                             | <5.00                                                                               | <5.00                                                                                | <200                                                                                 | <50                                                                               | <50                                                                                 | <50                                                                                    | <50                                                                                    | <50                                                                                  | <50                                                                                  |
|                   | AZO-<br>BENZENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49443) | BENZ (A)<br>ANTHRA-<br>CENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49436) | BENZOCI<br>NNOLINE<br>BED MAT<br>WS <2MM<br>DW WGT<br>REC<br>(UG/KG)<br>(49468)   | BENZOB<br>FLUOR-<br>ANTHENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49458) | BENZO K<br>FLUOR-<br>ANTHENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49397) | BENZO (G<br>HI) PERY<br>LENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49408) | BENZO<br>(A)<br>PYRENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49389)    | 2, 2'-BI<br>QUINO-<br>LINE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49391) | METHANE<br>T2CHLORO<br>ETHHOXY<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49401) | PHTHALA<br>TE, BIS2<br>ETHHEXL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49426) | 4-BROMO<br>PHNPHNL<br>ETHER<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49454)  | PHTHALA<br>TEBUTYL<br>BENZYL-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(4     |

## WATER QUALITY DATA, APRIL 1995 TO SEPTEMBER 1996

## NATIONAL WATER-QUALITY ASSESSMENT PROGRAM

## LOWER MISSISSIPPI EMBAYMENT STUDY--Continued

07288870 STEELE BAYOU EAST PRONG NEAR ROLLING FORK, MS--Continued

## BED SEDIMENT DATA--Continued

| DATE | 9H-FLU-<br>ORENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49399) | BENZENE<br>HEXA-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49343) | INDENO<br>123-CD<br>PYRENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49390) | ISOPHOR<br>ONE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49400) | ISO-<br>QUINO-<br>LINE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49394) | ANTHRA-<br>CENE, 2-<br>METHYL-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49435) | 9H-PLU-<br>ORENE,<br>1-METHYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49398) | PHENAN<br>THRENE<br>1-METHYL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49410) | PYRENE,<br>1-<br>METHYL,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49388) | 4HCYPEN<br>PHENAN<br>THRENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49411) | NAPHTH-<br>ALENE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49402) | BENZENE<br>NITRO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49444) |
|------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------|
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AUG 1995  
24... <50 <50.0 <50 <50 <50 <50 <50 <50 <50 <50 <50

| DATE | DPROPYL<br>AMINE, N<br>NITROSO<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49431) | DIPHNYL<br>AMINE, N<br>NITROSO<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49433) | PENTA-<br>CHLORO-<br>ANISOLE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49460) | BENZENE<br>PNTCHLR<br>NITRO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49446) | PHENAN<br>THRENE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49409) | PHENAN-<br>THRI-<br>DINE<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49393) | PHENOL<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49413) | PYRENE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49387) | QUINO-<br>LINE,<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49392) | BENZENE<br>124TRI-<br>CHLORO-<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49438) | NAPHTH<br>ENE, 236<br>TRIMETH<br>SED, BM<br>WS, <2MM<br>DW, REC<br>(UG/KG)<br>(49405) |
|------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
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AUG 1995  
24... <50 <50 <50 <50 E12 <50 <50 E23 <50 <50 <50

## FISH LIVER DATA

| DATE | ALUMI-<br>NUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49251) | ANTI-<br>MONY,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49246) | ARSENIC<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49247) | BARIUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49238) | BERYL-<br>LIUM-<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49248) | BORON,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49239) | CADMIUM<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49249) | CHROM-<br>IUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49240) | COBALT,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49250) | COPPER,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49241) | IRON,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49242) |
|------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|
|------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|

AUG 1995  
24... 16 <0.1 0.6 0.3 <0.1 0.5 8.7 <0.5 0.3 120 1000

| DATE | LEAD,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49251) | MANGAN-<br>ESE,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49243) | MERCURY<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49258) | MOLYB-<br>DENUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49252) | NICKEL,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49253) | SELEN-<br>IUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49254) | SILVER,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49255) | STRON-<br>TIUM,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49244) | URANIUM<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49257) | VANA-<br>DIUM<br>BIO TIS<br>LIVER<br>DRY WGT<br>REC<br>(UG/G)<br>(49465) | ZINC,<br>BIOTA,<br>TISSUE,<br>DRY WGT<br>REC<br>(UG/G)<br>(49245) |
|------|-------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------|
|------|-------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------|

AUG 1995  
24... 0.2 4.2 0.4 1.5 0.2 7.2 0.3 0.5 <0.1 3.2 430

## FISH TISSUE DATA

| DATE | PCB,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49354) | ALPHA-<br>BHC,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49366) | BETA-<br>BHC,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49365) | DELTA-<br>BHC,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49364) | ALDRIN,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49353) | CIS-<br>CHLOR-<br>DANE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49380) | OXY-<br>CHLOR-<br>DANE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49357) | TRANS-<br>CHLOR-<br>DANE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49379) | DCPA,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49378) | O, P'-<br>DDD,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49374) |
|------|-----------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------|
|------|-----------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------|

AUG 1995  
24... 60.0 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 120

| DATE | P, P'-<br>DDD,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49375) | O, P'-<br>DDE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49373) | P, P'-<br>DDE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49372) | O, P'-<br>DDT,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49377) | P, P'-<br>DDT,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49376) | DIEL-<br>DRIN,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49371) | ENDRIN,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49370) | HEPTA-<br>CHLOR,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49369) | HEPTA-<br>CHLOR<br>EPOXIDE<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49368) | LINDANE<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49363) |
|------|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------|
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AUG 1995  
24... E1100 <12.0 3700 <5.30 E140 16.0 <5.00 <5.00 <5.00 <5.00

| DATE | LIPIDS,<br>BIOTA,<br>WH ORG<br>WW, REC<br>PERCENT<br>(49289) | METHOXY<br>CHLOR,<br>O, P'-,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49362) | METHOXY<br>CHLOR,<br>P, P'-,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49361) | MIREX,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49360) | CIS-<br>NONA-<br>CHLOR,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49359) | TRANS-<br>NONA-<br>CHLOR,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49358) | TOXA-<br>PHENE,<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49355) | BENZENE<br>HEXA-<br>CHLORO-<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49367) | PENTA<br>CHLORO<br>ANISOLE<br>BIOTA,<br>WH ORG<br>WW, REC<br>(UG/KG)<br>(49356) |
|------|--------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
|------|--------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|

AUG 1995  
24... 7.80 <18.0 <5.00 <5.00 <5.00 <5.00 9100 <5.00 <5.00



## WATER-QUALITY DATA COLLECTED DURING SHORT-TERM STUDIES

WATER QUALITY DATA, APRIL 1995 TO SEPTEMBER 1996

NATIONAL WATER-QUALITY ASSESSMENT PROGRAM

LOWER MISSISSIPPI EMBAYMENT STUDY--Continued

07288900 STEELE BAYOU NEAR ONWARD, MS

| DATE     | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|----------|------|--------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| MAY 1995 |      |                                                              |                                                                      |                                                 |                                                |
| 16...    | 0950 | 224                                                          | 7.2                                                                  | 27.5                                            | 6.9                                            |
| AUG      |      |                                                              |                                                                      |                                                 |                                                |
| 08...    | 1040 | 458                                                          | 7.5                                                                  | 30.0                                            | 6.6                                            |
| FEB 1996 |      |                                                              |                                                                      |                                                 |                                                |
| 28...    | 1530 | 413                                                          | 7.8                                                                  | 15.5                                            | 9.5                                            |
| MAY      |      |                                                              |                                                                      |                                                 |                                                |
| 23...    | 0845 | 227                                                          | 7.8                                                                  | 28.0                                            | 7.6                                            |
| AUG      |      |                                                              |                                                                      |                                                 |                                                |
| 13...    | 1730 | --                                                           | 7.8                                                                  | 29.0                                            | --                                             |

## GROUND-WATER LEVELS

## HARRISON COUNTY

302355088540301. Local number, M120.

LOCATION.--Lat 30°23'55", long 88°54'03", in NW1/4 SE1/4 sec.26,T.7 S.,R.9 W.,St. Stephens Meridian,Harrison County.

Hydrologic Unit 03170004, at Howard Avenue and Querens Street, 1.0 mi west of center of Biloxi.

Owner: City of Biloxi.

AQUIFER.--Sand of Pascagoula Formation of late Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in, depth reported 928 ft, sounded to 660 ft.

INSTRUMENTATION.--Water-level recorder -- 60-minute punch.

DATUM.--Land-surface datum is 21.28 ft above sea level (from topographic map).

Measuring point: Top of 8-in flange, 3.00 ft above land-surface datum.

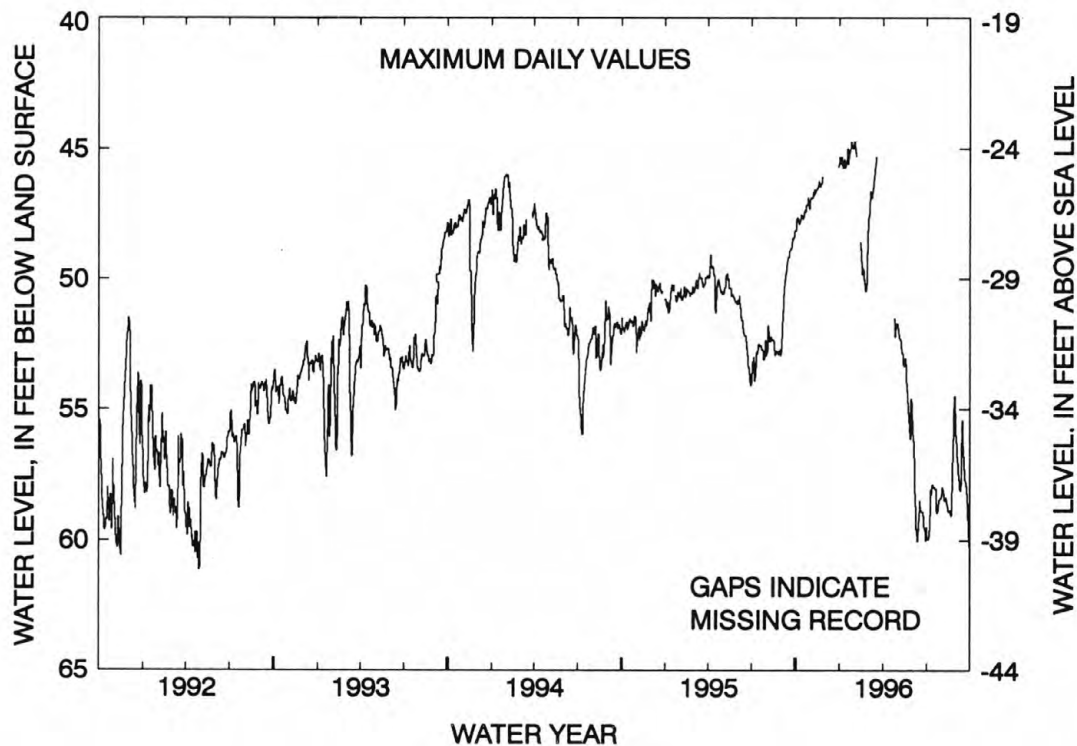
REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--Miscellaneous water-level measurements 1903, periodic water-level measurements January 1945 to June 1946, March 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 44.0 ft above land-surface datum, 1903, lowest, 79.14 ft below land-surface datum, Aug. 5, 1986.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MAXIMUM VALUES

| DAY | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5   | 47.67 | 46.92 | ---   | 45.52 | 45.31 | 47.01 | ---   | 52.25 | 56.89 | 59.97 | 58.10 | 57.07 |
| 10  | 47.84 | 46.59 | ---   | 45.65 | ---   | 46.72 | ---   | 52.68 | 59.60 | 58.09 | 58.47 | 58.12 |
| 15  | 47.61 | 46.55 | ---   | 45.58 | 48.86 | 45.92 | ---   | 53.36 | 59.30 | 58.01 | 58.73 | 55.51 |
| 20  | 47.44 | 46.34 | ---   | 45.37 | 49.66 | ---   | ---   | 53.66 | 58.90 | 58.06 | 58.88 | 57.73 |
| 25  | 47.17 | 46.32 | ---   | 44.98 | 50.49 | ---   | 51.53 | 55.47 | 59.24 | 58.91 | 57.03 | 58.60 |
| EOM | 47.19 | ---   | 45.57 | 44.97 | 48.74 | ---   | 51.79 | 54.74 | 60.01 | 58.41 | 55.71 | 60.67 |
| MAX | 48.18 | ---   | ---   | 45.74 | ---   | ---   | ---   | 56.15 | 60.04 | 59.99 | 59.09 | 60.67 |



## HARRISON COUNTY--Continued

302406088593201. Local number, M544.

LOCATION.--Lat 30°24'06", long 88°59'32", in NW1/4 SE1/4 sec.28,T.7 S.,R.10 W.,St. Stephens Meridian,Harrison County.  
Hydrologic Unit 03170009, at Edgewater Subdivision, Lakeview Drive, north of Pass Road, near center of Biloxi.  
Owner: City of Biloxi.

AQUIFER.--Sand of Graham Ferry Formation of Pliocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in, depth 800 ft.

INSTRUMENTATION.--Water-level recorder -- 60-minute punch.

DATUM.--Land-surface datum is 25 ft above sea level (from topographic map).

Measuring point: 1/2-in. plastic plug, top of seal, 1.00 ft above land-surface datum.

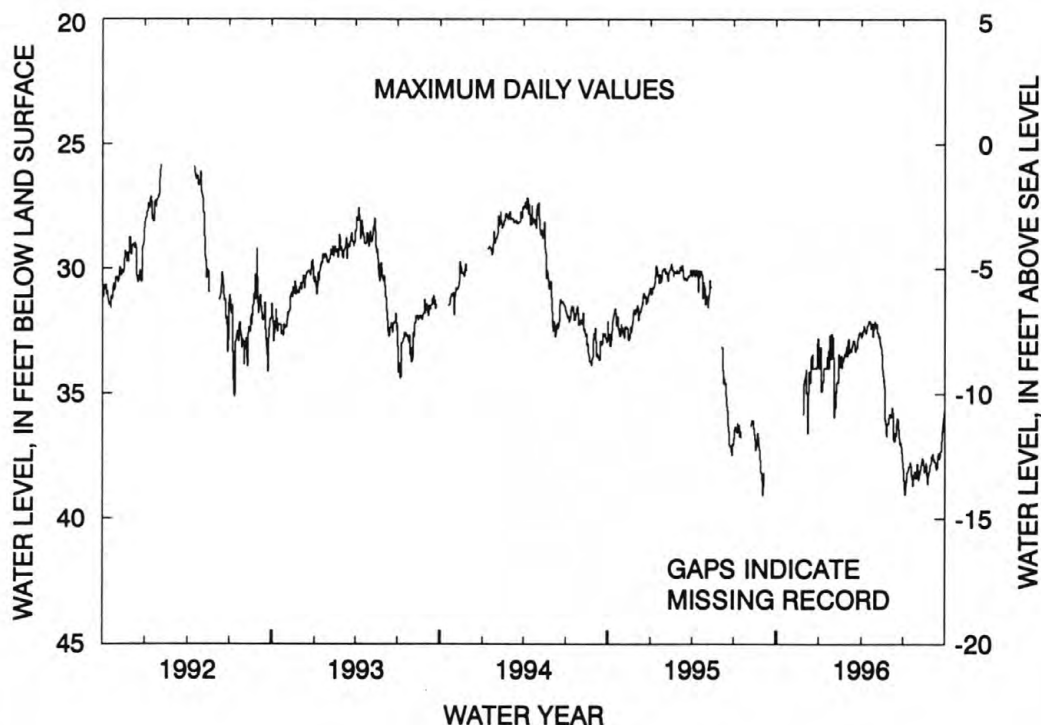
REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--Miscellaneous water-level measurements June 1969, October 1981, April 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 19.49 ft above land-surface datum, Apr. 23, 1983, lowest,  
42.25 ft below land-surface datum, July 2, 1988.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MAXIMUM VALUES

| DAY | OCT | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5   | --- | ---   | 34.21 | 33.99 | 35.94 | 32.87 | 32.65 | 32.35 | 35.95 | 38.84 | 38.44 | 37.41 |
| 10  | --- | ---   | 34.96 | 34.57 | 34.58 | 33.30 | 32.46 | 32.56 | 35.76 | 38.53 | 37.87 | 37.74 |
| 15  | --- | ---   | 34.56 | 33.97 | 33.53 | 33.01 | 32.24 | 33.09 | 36.55 | 37.91 | 37.65 | 37.82 |
| 20  | --- | ---   | 33.42 | 33.53 | 33.48 | 33.28 | 32.14 | 34.26 | 36.00 | 38.28 | 37.93 | 37.52 |
| 25  | --- | ---   | 33.99 | 33.99 | 33.54 | 32.95 | 32.40 | 36.05 | 37.01 | 38.43 | 38.64 | 36.75 |
| EOM | --- | 35.81 | 32.84 | 32.85 | 33.46 | 32.57 | 32.46 | 36.20 | 37.34 | 38.40 | 37.81 | 35.73 |
| MAX | --- | ---   | 36.59 | 34.92 | 35.94 | 33.51 | 32.74 | 36.70 | 37.34 | 39.04 | 38.64 | 38.04 |



## HINDS COUNTY

321957090105601. Local number, H155.

LOCATION.--Lat 32°19'57", long 90°10'56", 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 158 ft.

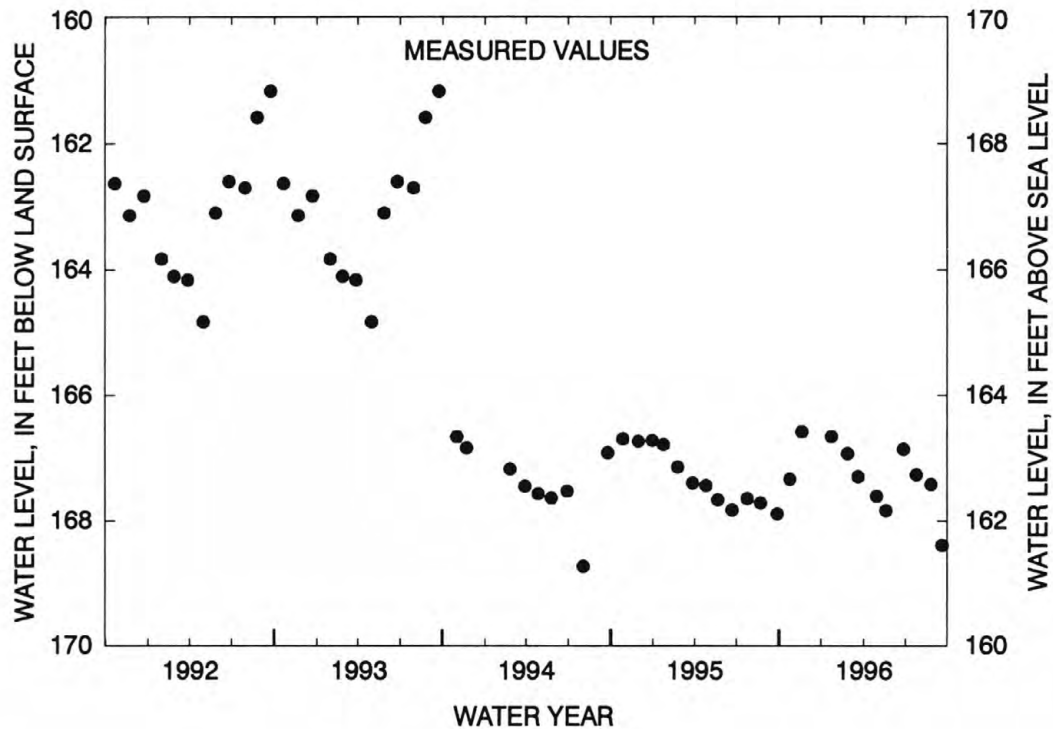
DATUM.--Land-surface datum is 330 ft above sea level. Measuring point: Top of casing, 40 ft above land-surface datum.

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, 167.89 ft below land-surface datum, Sept. 27, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 25 | 167.34      | -----  | -----       | FEB 27 | 166.93      | APR 30 | 167.61      | JUN 27 | 166.86      | AUG 26 | 167.42      |
| NOV 20 | 166.58      | JAN 23 | 166.66      | MAR 21 | 167.30      | MAY 20 | 167.84      | JUL 25 | 167.27      | SEP 19 | 168.39      |



## HINDS COUNTY--Continued

322241090073701. Local number, H160.

LOCATION.--Lat 32°22'41", long 90°07'37", in SE1/4 NE1/4 sec.7, T.6 N., R.2 E., Choctaw Meridian, Hinds County, Hydrologic Unit 03180002, northeast of center of Jackson at Old Canton Road and Parkway Drive.  
 Owner: Colonial Country Club.

AQUIFER.--Sparta Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth reported 773 ft, cased to 634 ft.

DATUM.--Land-surface datum is 305 ft above sea level (from topographic map).

Measuring point: Top of casing, at land-surface datum.

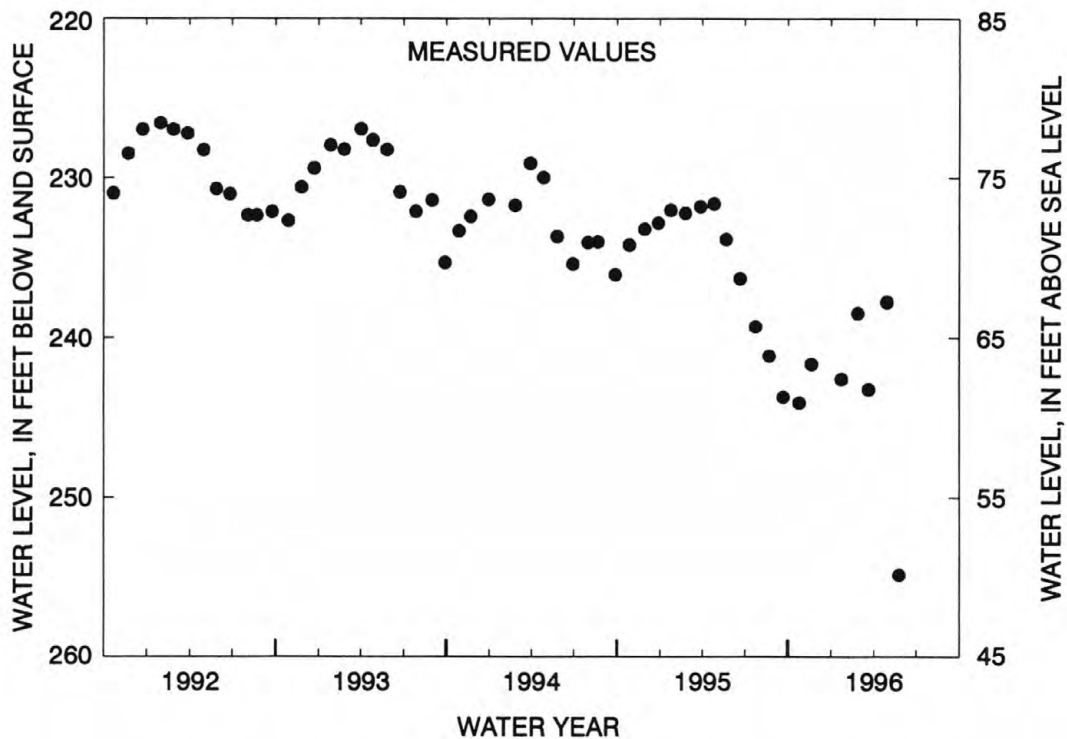
REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--January 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 136.73 ft below land-surface datum, Mar. 30, 1954, lowest measured, 243.68 ft below land-surface datum, Sept. 21, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE  | WATER LEVEL | DATE  | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|-------|-------------|-------|-------------|
| OCT 25 | 244.05      | -----  | -----       | FEB 27 | 238.39      | APR 29 | 237.68      | ----- | -----       | ----- | -----       |
| NOV 20 | 241.62      | JAN 23 | 242.56      | MAR 28 | 243.20      | MAY 20 | 241.04      | ----- | -----       | ----- | -----       |



## JACKSON COUNTY

302103088294701. Local number, Q403.

LOCATION.--Lat 33°21'03", long 88°29'47", in NE1/4 SE1/4 sec.17, T.8 S., R.5 W., St. Stephens Meridian, Jackson County.  
Hydrologic Unit 03170009, 3.7 mi east southeast of center of Pascagoula, on west side of State Highway 611 at Coastal Chemical Co.

Owner: U.S. Geological Survey.

AQUIFER.--Sand of Graham Ferry Formation of Pliocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 346 ft, cased to 340 ft.

INSTRUMENTATION.--Water-level recorder -- 60 minute punch.

DATUM.--Land-surface datum is 12 ft above sea level (from topographic map).

Measuring point: Top of casing, 3.3 ft above land-surface datum.

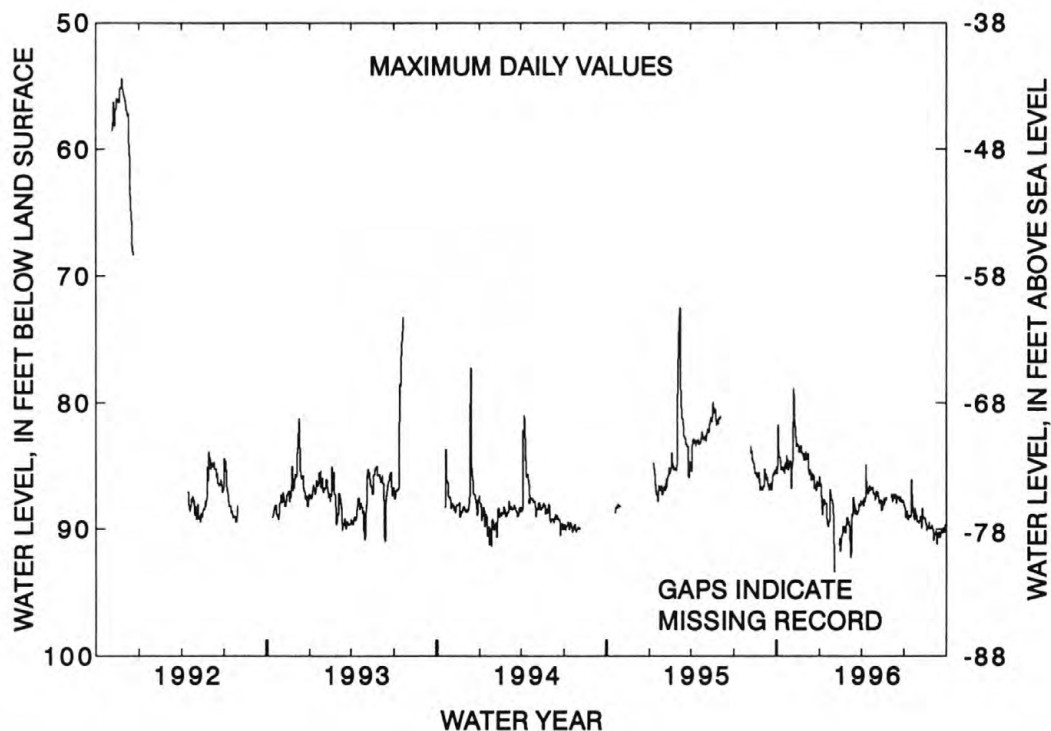
REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--June 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 45.90 ft below land-surface datum, Apr. 17, 1991;  
lowest measured, 145.1 ft below land-surface datum, Jun. 19, 1974.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996  
DAILY MAXIMUM VALUES

| DAY | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5   | 81.78 | 84.97 | 84.52 | 86.58 | 93.35 | 89.40 | 88.00 | 87.17 | 87.22 | 88.38 | 89.29 | 90.63 |
| 10  | 84.84 | 81.32 | 85.36 | 88.01 | ---   | 92.26 | 87.51 | 88.03 | 87.24 | 88.88 | 88.39 | 90.30 |
| 15  | 85.28 | 83.33 | 85.82 | 88.00 | 90.74 | 87.53 | 86.81 | 88.50 | 88.00 | 89.04 | 89.09 | 90.25 |
| 20  | 85.60 | 83.66 | 86.06 | 89.60 | 90.44 | 88.76 | 86.93 | 87.59 | 87.52 | 87.93 | 90.07 | 90.13 |
| 25  | 84.51 | 83.98 | 86.61 | 88.47 | 90.17 | 88.65 | 86.67 | 87.74 | 87.78 | 89.23 | 89.41 | 90.25 |
| EOM | 84.61 | 84.33 | 86.39 | 87.96 | 89.63 | 87.78 | 87.25 | ---   | 87.70 | 89.39 | 89.66 | 90.15 |
| MAX | 85.61 | 86.77 | 86.90 | 89.80 | ---   | 92.26 | 88.18 | ---   | ---   | 89.39 | 90.07 | 91.19 |





## HARRISON COUNTY

303110089070201. Local number, G121.

LOCATION.--Lat 30°31'10", long 87°07'02", in NE1/4 SW1/4 sec.17, T.6 S., R.11 W., St. Stephens Meridian, Harrison County.

Hydrologic Unit 03170009, 2 mi northwest of center of Lyman at fish hatchery.

Owner: Mississippi Wildlife Conservation Department, Fisheries Division.

AQUIFER.--Sand of Graham Ferry Formation of Pliocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 3 in, depth 456 ft, screened 416-456 ft.

DATUM.--Land-surface datum is 70 ft above sea level (from topographic map).

Measuring point: Top of casing, 0.40 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--1939, July 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.0 ft below land-surface datum, Apr. 14, 1939, lowest measured, 75.65 ft below land-surface datum, Apr. 7, 1988.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| NOV 28 | 72.93          | MAR 25 | 71.10          |

303046089052301. Local number, G430.

LOCATION.--Lat 30°30'46", long 89°05'23", in NE1/4 NE1/4 sec.21, T.6 S., R.11 W., St. Stephens Meridian, Harrison County.

Hydrologic Unit 03170009, .07 mi east and 1 mi north of intersection of U.S. Highway 49 and State Highway 53 on Smith Road.

Owner: William Ladner.

AQUIFER.--Sand of Hattiesburg formation of late Miocene age.

WELL CHARACTERISTICS.--Drilled domestic artesian well, diameter 2 in, depth 1780 ft.

DATUM.--Land-surface datum is 55 ft above sea level (from topographic map).

Measuring point: Top of 2-inch tee, 2.0 ft above land-surface datum.

REMARKS.--Free flowing artesian well.

PERIOD OF RECORD.--October 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.2 ft above land-surface datum, October 14, 1992, lowest measured, 12.5 ft above land-surface datum, Nov. 28, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| NOV 28 | -12.5          | APR 25 | -12.9          |

302400089022403. Local number, L141.

LOCATION.--Lat 30°22'40", long 89°02'54", in SW1/4 NW1/4 sec.1, T.8 S., R.11 W., St. Stephens Meridian, Harrison County.

Hydrologic Unit 03170009, 2.5 mi east of center of Gulfport at V.A. Hospital on U.S. Highway 90.

Owner: U.S. Government (V.A. Hospital).

AQUIFER.--Sand of Pascagoula Formation of late Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth reported 898 ft, cased to 818 ft.

DATUM.--Land-surface datum is 21 ft above sea level (from topographic map).

Measuring point: Steel plate on top of tee, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--March 1939, June 1957 to December 1958, April 1960 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.3 ft above land-surface datum, Mar. 17, 1939, lowest measured, 53.62 ft below land-surface datum, Apr. 10, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| NOV 28 | 53.62          | APR 24 | 47.66          |

302200089053301. Local number, L154.

LOCATION.--Lat 30°22'00", long 89°05'33", in NW1/4 NE1/4 sec.9, T.8 S., R.11 W., St. Stephens Meridian, Harrison County.

Hydrologic Unit 03170009, at center of Gulfport at post office at U.S. Highways 49 and 90.

Owner: U.S. Post Office Department, Gulfport.

AQUIFER.--Sand of Pascagoula Formation of late Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 3 in, depth 1,262 ft, screened 1,232-1,262 ft.

DATUM.--Land-surface datum is 19.62 ft above sea level.

Measuring point: Top of 3-in casing tee, 1.70 ft above land-surface datum.

PERIOD OF RECORD.--March 1939 to October 1950, January 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.1 ft above land-surface datum, Jan. 31, 1940, lowest measured, 15.14 ft below land-surface datum, Mar. 29, 1984.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| NOV 28 | 13.78          | APR 24 | 13.08          |

302410089082201. Local number, L654.

LOCATION.--Lat 30°24'10", long 89°08'22", in SW1/4 SE1/4 sec.30, T.7 S., R.11 W., St. Stephens Meridian, Harrison County.

Hydrologic Unit 03170009, 1 mi west of center of Biloxi.

Owner: Dolan Trailer Park.

AQUIFER.--Sand of Hattiesburg Formation of late Miocene age.

WELL CHARACTERISTICS.--Drilled public supply artesian well, diameter 4 in, depth 1,690 ft.

DATUM.--Land-surface datum is 17 ft above sea level (from topographic map).

Measuring point: Top of well casing, at land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--April 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 46.8 ft above land-surface datum, Apr. 30, 1986, lowest measured, 38.5 ft above land-surface, Aug. 9, 1995.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE    | WATER<br>LEVEL |
|---------|----------------|
| JAN 238 | -39.0          |

## HARRISON COUNTY--Continued

301856089145301. Local number, N003.

LOCATION.--Lat 30°18'56", long 89°14'53", in SW1/4 NW1/4 sec.30, 8 S., R.13 W., St. Stephens Meridian, Harrison County.  
Hydrologic Unit 03170009, 0.1 mi northwest of center of Pass Christian at 2nd and Clark Streets.

Owner: City of Pass Christian.

AQUIFER.--Sand of Pascagoula Formation of late Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 1,111 ft, cased to 1,051 ft.

DATUM.--Land-surface datum is 15 ft above sea level (from topographic map).

Measuring point: Top of 8-in tee, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--1948, 1968, August 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39 ft above land-surface datum, 1948, lowest measured, 7.12 ft below land-surface datum, Oct. 14, 1986.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| NOV 28 | 7.12           | APR 24 | 5.79           |

302204089102701. Local number, O307.

LOCATION.--Lat 30°22'04", long 89°10'27", in NE1/4 NE1/4 sec.10, T.8 S., R.12 W., St. Stephens Meridian, Harrison County.  
Hydrologic Unit 03170009, 2.5 mi north of US Highway 90 at Long Beach.

Owner: City of Long Beach.

AQUIFER.--Sand of Hattiesburg Formation of late Miocene age.

WELL CHARACTERISTICS.--Drilled public supply artesian well, diameter 16 in, depth 1,640 ft.

DATUM.--Land-surface datum is 24 ft above sea level (from topographic map).

PERIOD OF RECORD.--July 1993, October 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 40.5 ft above land-surface datum, Oct. 18, 1994, lowest measured, 39 ft above land-surface datum, July 10, 1993.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| NOV 28 | -39.8          | APR 24 | -39.8          |

3022170890991301. Local number, O308.

LOCATION.--Lat 30°22'17", long 89°09'13", in SE1/4 SE1/4 sec.2, T.8 S., R.12 W., St. Stephens meridian, Harrison County.  
Hydrologic Unit 03170009, 2 mi north of US Highway 90 at Long Beach.

Owner: City of Long Beach.

AQUIFER.--Sand of Graham Ferry Formation of Pliocene age.

WELL CHARACTERISTICS.--Drilled public supply artesian well, diameter 16 in, depth 764 ft.

DATUM.--Land-surface datum is 22 ft above sea level (from topographic map).

Measuring point: Air vent at pump base, 2.10 ft above land-surface datum.

PERIOD OF RECORD.--July 1993, October 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.7 ft above land-surface datum, Nov. 28, 1995, lowest measured, 27.5 ft above land-surface datum, Apr. 10, 1995.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| NOV 28 | -31.7          | APR 24 | -27.9          |

302139089121001. Local number, O320.

LOCATION.--Lat 30°21'39", long 89°12'10", in NW1/4 SW1/4 sec.9, T.8 S., R.12., St. Stephens Meridian, Harrison County.  
Hydrologic Unit 03170009, 2.5 mi north of US Highway 90 at Pass Christian.

Owner: Mississippi Gulf Coast Community College.

AQUIFER.--Sand of Hattiesburg Formation of late Miocene age.

WELL CHARACTERISTICS.--Drilled aquaculture artesian well, diameter 4 in, depth 1,860 ft.

DATUM.--Land-surface datum is 25 ft above sea level (from topographic map).

Measuring point: 3/4 in plug along discharge line, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--May 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.7 ft above land-surface datum, Nov 28, 1995, lowest measured, 30 ft above land-surface datum, May 3, 1995.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| NOV 28 | -39.7          | APR 24 | -39.7          |

## 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, 244.31 ft below land-surface datum, Mar. 22, 1996.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| 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 26 | 244.13         | ---    | ---            | FEB 28 | 242.98         | APR 30 | 241.29         | JUN 27 | 242.75         | AUG 27 | 243.91         |
| NOV 21 | 243.68         | JAN 24 | 243.39         | MAR 22 | 244.31         | MAY 21 | 241.99         | JUL 25 | 242.73         | SEP 20 | 243.60         |

## HINDS COUNTY--Continued

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 1995 TO SEPTEMBER 1996

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 26 | 254.88      | ---    | ---         | FEB 28 | 260.57      | APR 30 | 255.78      | JUN 27 | 264.58      | AUG 27 | 258.63      |
| NOV 21 | 255.10      | JAN 24 | 258.27      | MAR 22 | 258.62      | MAY 21 | 262.14      | JUL 25 | 260.76      | SEP 20 | 254.15      |

322301090090001. Local number, H023.

LOCATION.--Lat 32°23'01", long 90°09'00", in NW1/4 NE1/4 sec.12 T.6 N., R.1 E., Choctaw Meridian, Hinds County.

Hydrologic Unit 03180002, 6.0 mi north of center of Jackson at Briarwood Drive and US Interstate 55.

Owner: Kenneth Muse.

AQUIFER.--Sparta Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 728 ft.

DATUM.--Land-surface datum is 315 ft above sea level (from topographic map).

Measuring point: Top of casing, 0.65 ft above land-surface datum.

PERIOD OF RECORD.--October 1955 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 161.96 ft below land-surface datum, Apr. 12, 1957, lowest measured, 264.31 ft below land-surface datum, Sept. 19, 1996.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 25 | 258.85      | ---    | ---         | FEB 27 | 255.05      | APR 29 | 255.15      | JUN 25 | 260.68      | AUG 26 | 263.99      |
| NOV 20 | 257.00      | JAN 23 | 255.54      | MAR 21 | 254.58      | MAY 20 | 257.03      | JUL 25 | 263.85      | SEP 19 | 264.31      |

32223090132801. Local number, H163.

LOCATION.--Lat 32°22'23", long 90°13'28", in sec. 8, T.6 N., R.1 E., Choctaw Meridian, Hinds County. Hydrologic

Unit 03180002, 5.5 mi northwest of center of Jackson on Forest Avenue.

Owner: Tri State Brick Company.

AQUIFER.--Sparta Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 824 ft.

DATUM.--Land-surface datum is 354 ft above sea level (from topographic map).

Measuring point: 11/4-in plug at top of well head, 1.50 ft above land-surface datum.

REMARKS.--Water level affected by nearby pumping.

PERIOD OF RECORD.--April 1972, June 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 272 ft below land-surface datum Apr. 1, 1974, lowest measured, 301.89 ft below land-surface datum July 27, 1993.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 26 | 296.30      | ---    | ---         | FEB 28 | 298.70      | APR 30 | 299.60      | JUN 27 | 299.80      | AUG 27 | 299.25      |
| NOV 21 | 295.69      | JAN 24 | 297.92      | MAR 22 | 299.43      | MAY 21 | 298.70      | JUL 25 | 298.89      | SEP 19 | 298.30      |

32222090095201. Local number, H164.

LOCATION.--Lat 32°22'22", long 90°09'52", in SW1/4 SE1/4 sec.11, T.6 N., R.1 E., Choctaw Meridian, Hinds County.

Hydrologic Unit 03180002, 7 mi north of center of Jackson on North State Street.

Owner: Homewood Manor Tractor Court.

AQUIFER.--Sparta Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused domestic artesian well, diameter 4 in, depth 738 ft.

DATUM.--Land-surface datum is 298 ft above sea level (from topographic map).

Measuring point: Plug in west side of casing, 0.3 ft above land-surface datum.

PERIOD OF RECORD.--January 1975, June 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 195.65 ft below land-surface datum, June 10, 1977, lowest measured 242.00 ft below land-surface datum, Sept. 19, 1996.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 25 | 237.70      | ---    | ---         | FEB 27 | 233.16      | APR 29 | 234.10      | JUN 25 | 238.22      | AUG 26 | 241.77      |
| Nov 20 | 236.15      | JAN 23 | 233.28      | MAR 21 | 232.97      | MAY 20 | 239.14      | JUL 25 | 238.60      | SEP 19 | 242.00      |

322003090092501. Local number, H196.

LOCATION.--Lat 32°20'03", long 90°09'25", 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, 141.00 ft below land-surface datum, Aug. 26, 1996.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 25 | 138.35      | ---    | ---         | FEB 27 | 138.19      | APR 29 | 138.25      | JUN 27 | 139.10      | AUG 26 | 141.00      |
| NOV 20 | 138.30      | JAN 23 | 138.26      | MAR 21 | 138.26      | MAY 20 | 139.37      | JUL 25 | 139.52      | SEP 19 | 138.78      |

## HINDS COUNTY--Continued

321445090160001. Local number, M094.

LOCATION.--Lat 32°14'52", long 90°16'00", in SW1/4 NE1/4 sec. 26, T.5N., 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, 314.69 ft below land-surface datum Mar. 22, 1996.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 26 | 288.00      | ---    | ---         | FEB 28 | 302.67      | APR 30 | 303.85      | JUN 27 | 302.90      | AUG 27 | 302.20      |
| NOV 21 | 287.46      | JAN 24 | 294.79      | MAR 22 | 314.69      | MAY 21 | 300.72      | JUL 25 | 302.98      | SEP 20 | 305.14      |

321423090180201. Local number, M112.

LOCATION.--Lat 32°14'22", 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, 292.11 ft below land-surface datum, Mar. 22, 1996.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 26 | 266.91      | ---    | ---         | FEB 28 | 289.68      | APR 30 | 264.55      | JUN 27 | 268.50      | AUG 27 | 272.59      |
| NOV 21 | 269.01      | JAN 24 | 280.90      | MAR 22 | 292.11      | MAY 21 | 271.58      | JUL 25 | 272.03      | SEP 20 | 290.14      |

321752090102601. Local number, N092.

LOCATION.--Lat 32°17'52", long 90°10'26", 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 106.96 ft below land-surface datum, Nov. 21, 1995

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| ---    | ---         | ---    | ---         | FEB 27 | 106.30      | APR 29 | 105.96      | JUN 25 | 106.58      | AUG 26 | 106.52      |
| NOV 21 | 106.96      | JAN 23 | 105.89      | MAR 21 | 105.95      | MAY 20 | 106.90      | JUL 25 | 106.61      | SEP 19 | 106.63      |

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, September 1959, lowest measured, 177.79 ft below land-surface datum, Aug. 27, 1996.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 26 | 170.22      | ---    | ---         | FEB 28 | 171.97      | APR 30 | 166.98      | JUN 25 | 174.48      | AUG 27 | 177.79      |
| NOV 21 | 168.70      | JAN 24 | 170.48      | MAR 22 | 160.99      | MAY 21 | 171.12      | JUL 25 | 177.70      | SEP 20 | 176.18      |

## JACKSON COUNTY

302454088493401. Local number, N048.

LOCATION.--Lat 30°24'55", long 88°49'35", in SE1/4 SW1/4 sec.19, T.7 S., R.8 W., St. Stephens Meridian, Jackson County.

Hydrologic Unit 03170009, 0.1 mi east of depot at Ocean Springs at Robinson Avenue and Cash Alley.

Owner: Larry Casper (Formerly L &amp; N Railroad).

AQUIFER.--Sand of Graham Ferry Formation of Pliocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth reported 535 ft, screened 495-535 ft cased to 495 ft.

DATUM.--Land-surface datum is 23 ft above sea level (from topographic map).

Measuring point: Top of 4-in discharge pipe, 2.50 ft above land-surface datum.

REMARKS.--Water level affected by nearby pumping.

PERIOD OF RECORD.--1928, April 1939, August 1958 to July 1963, July 1965 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 30.0 ft above land-surface datum, 1928, lowest measured, 102.38 ft below land-surface datum, Apr. 23, 1996.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|
| NOV 29 | 97.64       | APR 23 | 102.38      |



## JACKSON COUNTY--Continued

302503088481602. Local number, N511.

LOCATION.--Lat 30°25'03", long 88°48'16", in NE1/4 SE1/4 sec.20, T.7 S., R.8 W., St. Stephens Meridian, Jackson County.

Hydrologic Unit 03170009, 1.5 mi east of old depot at Ocean Springs.

Owner: Tommy Moreton.

AQUIFER.--Sand of Pascagoula Formation of late Miocene age.

WELL CHARACTERISTICS.--Drilled domestic artesian well, diameter 3 in, depth 1,280 ft, screened 1,240-1,280 ft.

DATUM.--Land-surface datum is 5 ft above sea level (from topographic map).

Measuring point: Top of 3-in tee, 2 ft above land-surface datum.

PERIOD OF RECORD.--July 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.0 ft above land-surface datum, July 1, 1984, lowest measured, 5.5 ft above land-surface Nov. 29, 1995.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| NOV 29 | -5.5           | APR 23 | -8.3           |

302439088493801. Local number, N566.

LOCATION.--Lat 30°24'39", long 88°49'38", in sec.30, T.7 N., R.8 W., St. Stephens Meridian, Jackson County.

Hydrologic Unit 03170009, 0.4 mi south of US Highway 90 at elevated tank on Porter Street off Washington Avenue in Ocean Springs.

Owner: City of Ocean Springs.

AQUIFER.--Sand of Pascagoula Formation of late Miocene age.

WELL CHARACTERISTICS.--Drilled domestic artesian well, diameter 16 in, depth 950 ft.

DATUM.--Land-surface datum is 20 ft above sea level (from topographic map).

Measuring point: Air vent at pump base, 2.20 ft above land-surface datum.

PERIOD OF RECORD.--October 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 45.03 ft below land-surface datum, June 5, 1995, lowest measured, 49.47 ft below land-surface Nov. 29, 1995.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| NOV 29 | 49.47          | FEB 13 | 49.19          | APR 23 | 45.75          |

302451088325901. Local number, P045.

LOCATION.--Lat 30°24'51", long 88°32'59", in NE1/4 NE1/4 sec.10, T.7 S., R.6 W., St. Stephens Meridian, Jackson County.

Hydrologic Unit 03170008, 0.5 mi northwest of center of Moss Point at Weems Street and Dantzler Street.

Owner: Central Artesian Well Co.

AQUIFER.--Sand of Pascagoula Formation of late Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 806 ft, cased to 806 ft.

DATUM.--Land-surface datum is 20 ft above sea level (from topographic map).

Measuring point: Hole in tee, 0.80 ft above land-surface datum.

PERIOD OF RECORD.--September 1919, September 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.0 ft above land-surface datum, Sept. 6, 1919, lowest measured, 54.07 ft below land-surface datum, Nov. 6, 1979.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| NOV 29 | 38.90          | APR 24 | 37.35          |

302244088325801. Local number, P068.

LOCATION.--Lat 30°22'44", long 88°32'58", in SE1/4 NE1/4 sec.2, T.8 S., R.6 W., St. Stephens Meridian, Jackson County.

Hydrologic Unit 03170006, 1 mi north of center of Pascagoula at Market Street and River Road.

Owner: City of Pascagoula.

AQUIFER.--Sand of Graham Ferry Formation of Pliocene age.

WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 12 in, depth 292 ft, cased to 282 ft.

DATUM.--Land-surface datum is 12 ft above sea level (from topographic map).

Measuring point: Air vent in top of plate at well head, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--April 1959 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 51.05 ft below land-surface datum, Apr. 18, 1962, lowest measured, 95.90 ft below land-surface datum, July 12, 1977.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| NOV 29 | 78.28          | APR 24 | 77.72          |

302134088330803. Local number, P124.

LOCATION.--Lat 30°21'34", long 88°33'08", in SW1/4 SE1/4 sec.11, T.8 S., R.6 W., St. Stephens Meridian, Jackson County.

Hydrologic Unit 03170006, 0.5 mi southeast of center of Pascagoula at Community Street east of Pascagoula Street.

Owner: City of Pascagoula.

AQUIFER.--Sand of Pascagoula Formation of late Miocene age.

WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 12 in, depth 801 ft, cased to 721 ft.

DATUM.--Land-surface datum is 10.50 ft above sea level (from topographic map).

Measuring point: Hole in northeast side of plate at well head, 1.00 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--April 1959 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.70 ft below land-surface datum, Mar. 21, 1960, lowest measured, 144.64 ft below land-surface datum, June 12, 1975.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| NOV 29 | 64.34          | APR 24 | 63.02          |

## JACKSON COUNTY--Continued

30204208831801. Local number, P134.

LOCATION.--Lat 30°20'42", long 88°33'18", in SE1/4 sec.6, T.8 S., R.6 W., St. Stephens Meridian, Jackson County.  
 Hydrologic Unit 03170006, 1.5 mi south of center of Pascagoula at Farnsworth Avenue and Firth Street.

Owner: City of Pascagoula.

AQUIFER.--Sand of Pascagoula Formation of late Miocene age.

WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 12 in, depth 750 ft.

DATUM.--Land-surface datum is 10.54 ft above sea level (from topographic map).

Measuring point: Air vent in north side of pump base, 1.00 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--April 1959 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.14 ft below land-surface datum, May 5, 1960,  
 lowest measured, 121.03 ft below land-surface datum, June 12, 1975.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| NOV 29 | 58.00          | APR 24 | 57.28          |

30253508303501. Local number, Q025.

LOCATION.--Lat 30°25'35", long 88°30'35", in NE1/4 NE1/4 sec.20,T.7 S.,R.5 W.,St.Stephens Meridian,Jackson  
 County. Hydrologic Unit 03170008, 2 mi east of center of Escatawpa on Elder Perry Road at packing plant.

Owner: Seacoast Products (Formerly Smith Fisheries).

AQUIFER.--Sand of Graham Ferry Formation of Pliocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in, depth 200 ft.

DATUM.--Land-surface datum is 4 ft above sea level (from topographic map).

Measuring point: Top of casing, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--June 1959 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.07 ft above land-surface datum, Apr. 15, 1960,  
 lowest measured, 49.56 ft below land-surface datum, Apr. 30, 1971.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| NOV 29 | 22.56          | APR 24 | 22.00          |

302126088293801. Local number, Q112.

LOCATION.--Lat 30°21'32", long 88°29'38", in SW1/4 SW1/4 sec.9, T.8 S., R.5 W.,St.Stephens Meridian,Jackson  
 County. Hydrologic Unit 03170009, 5 mi southeast of center of Pascagoula on east side of State Highway 611  
 north of Standard Oil Refinery.

Owner: Jackson County Board of Supervisors.

AQUIFER.--Sand of Citronelle Formation of Pliocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6-4 in, depth 202 ft, screened 192-202 ft cased to 192 ft.

DATUM.--Land-surface datum is 3.4 ft above sea level (from topographic map).

Measuring point: Top of casing, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--May 1960 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.29 ft below land-surface datum, May 6, 1960, lowest  
 measured, 16.22 ft below land-surface datum, July 14, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| NOV 29 | 9.76           | APR 24 | 9.38           |

302253088302401. Local number, Q407.

LOCATION.--Lat 30°22'53", long 88°30'24", in SW1/4 NW1/4 sec.5, T.8 S., R.5 W.,St.Stephens Meridian,Jackson  
 County. Hydrologic Unit 03170006, 2.5 mi east of center of Pascagoula on Old Mobile Highway at Chateau Drive.

Owner: City of Pascagoula.

AQUIFER.--Sand of Graham Ferry Formation of Pliocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in, depth 327 ft.

DATUM.--Land-surface datum is 13.5 ft above sea level.

Measuring point: Top of 2 in pipe, 2.50 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--March 1975, April 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 78.95 ft below land-surface datum, Nov.29,  
 1995, lowest measured, 146.93 ft below land-surface datum, Oct. 4, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| NOV 29 | 78.95          | APR 24 | 138.14         |

302141088313101. Local number, Q424.

LOCATION.--Lat 30°21'41", long 88°31'31", in sec.30, T.8 S., R.5 W., St. Stephens Meridian, Jackson County.  
 Hydrologic Unit 03170009, 1.5 mi east of center of Pascagoula at Chico and Scovel Streets.

Owner: City of Pascagoula.

AQUIFER.--Sand of Citronelle Formation of Pliocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 182 ft.

DATUM.--Land-surface datum is 12 ft above sea level (from topographic map).

Measuring point: Top of recorder house floor, 1.00 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--Sept. 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.90 ft below land-surface datum, Apr. 17, 1990,  
 lowest measured, 25.0 ft below land-surface datum, Sept. 2, 1976.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| NOV 29 | 18.65          | APR 24 | 18.64          |



## GROUND-WATER LEVELS

## MADISON COUNTY

322413090101701. Local number, V013.

LOCATION.--Lat 32°24'20", long 90°09'30", in NE1/4 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.--Sand of Cockfield Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in, depth 600 ft.

DATUM.--Land-surface datum is 358 ft above sea level (from topographic map).

Measuring point: Middle of tee, 3.65 ft above land-surface datum.

PERIOD OF RECORD.--August 1955, November 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 163.43 ft below land-surface datum, Aug. 18, 1955, lowest measured, 223.72 ft below land-surface datum, Sept. 19, 1996.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 25 | 223.17      | --- -- | -----       | FEB 27 | 223.17      | APR 29 | 221.25      | JUN 27 | 222.55      | AUG 26 | 223.41      |
| NOV 20 | 221.93      | JAN 23 | 222.53      | MAR 21 | 222.35      | MAY 20 | 222.49      | JUL 25 | 223.41      | SEP 19 | 223.72      |

322415090085001. Local number, V029.

LOCATION.--Lat 32°24'15", long 90°09'44", 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, 294.23 ft below land-surface datum, Sept. 19, 1996.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 26 | 289.54      | --- -- | -----       | FEB 27 | 285.35      | APR 29 | 285.23      | JUN 27 | 290.98      | AUG 26 | 293.96      |
| NOV 20 | 287.80      | JAN 23 | 285.85      | MAR 21 | 285.24      | MAY 20 | 287.10      | JUL 25 | 292.95      | SEP 19 | 294.23      |

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.

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, 195.92 ft below land-surface datum, Sept. 27, 1995.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 25 | 192.69      | --- -- | -----       | FEB 27 | 184.10      | APR 29 | 183.10      | JUN 27 | 185.24      | AUG 26 | 186.44      |
| NOV 20 | 190.86      | JAN 23 | 186.09      | MAR 21 | 183.66      | MAY 20 | 182.84      | JUL 30 | 187.22      | SEP 19 | 187.25      |

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.

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, 241.70 ft below land-surface datum, Oct. 25, 1995.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 25 | 241.70      | --- -- | -----       | FEB 27 | 231.52      | APR 30 | 233.80      | JUN 27 | 238.10      | AUG 27 | 234.64      |
| NOV 20 | 236.04      | JAN 23 | 236.69      | MAR 21 | 240.70      | MAY 20 | 238.98      | JUL 30 | 234.32      | SEP 19 | 235.56      |

322514090080901. Local number, W069.

LOCATION.--Lat 32°25'14", long 90°08'09", 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.

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, 301.49 ft below land-surface datum, Sept. 19, 1996.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| --- -- | -----       | --- -- | -----       | FEB 27 | 295.14      | APR 29 | 295.14      | JUN 27 | 301.36      | AUG 26 | 300.05      |
| NOV 20 | 292.20      | JAN 23 | 296.16      | MAR 21 | 292.68      | MAY 20 | 295.55      | JUL 30 | 300.36      | SEP 19 | 301.49      |

## MADISON COUNTY--Continued

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.

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, 324.67 below land-surface datum, Sept. 19, 1996.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 26 | 318.64      | ---    | ---         | FEB 27 | 313.00      | APR 30 | 314.12      | JUN 27 | 318.73      | AUG 27 | 323.37      |
| NOV 20 | 316.50      | JAN 23 | 316.09      | MAR 21 | 313.84      | May 20 | 317.68      | JUL 25 | 317.49      | SEP 19 | 324.67      |

## RANKIN COUNTY

32249089582101. 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.

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, 211.44 ft below land-surface datum, Jun. 27, 1996.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|------|-------------|--------|-------------|--------|-------------|
| ---    | ---         | ---    | ---         | ---    | ---         | ---  | ---         | JUN 27 | 211.44      | AUG 26 | 207.62      |
| NOV 20 | 204.40      | JAN 24 | 197.90      | MAR 21 | 210.88      | ---  | ---         | JUL 31 | 203.94      | SEP 19 | 205.06      |

321413090093901. Local number, K035

LOCATION.--Lat 32°16'48", long 90°10'32", in NW1/4 NW1/4 sec.14, T. 5 N., R.1 E., Choctaw Meridian, Rankin County.  
Hydrologic Unit 03180002, 0.5 mi east of Pearl River on north side of US Highway 80 at Jackson.

Owner: Fred Harris (Old Billups Station).

AQUIFER.--Sparta Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 600 ft.

DATUM.--Land-surface datum is 271 ft above sea level (from topographic map).

Measuring point: Top of 4 in casing, 1.40 ft above land-surface datum.

PERIOD OF RECORD.--September 1947, September 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 108.0 ft below land-surface datum Sept. 1949; lowest measured, 217.49 ft below land-surface datum, Oct. 25, 1995.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER LEVEL |
|--------|-------------|
| OCT 25 | 217.49      |
| NOV 20 | 209.95      |

321443090042103. Local number, K037.

LOCATION.--Lat 32°14'40", long 90°04'18", in NW1/4 SW1/4 sec.26, T.5 N., R.2 E., Choctaw Meridian, Rankin County.  
Hydrologic Unit 03180002, 3 mi south of US Highway 80 at Pearl.

Owner: Mississippi State Hospital.

AQUIFER.--Sand of Cockfield Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled public supply artesian well, diameter 12 in, depth 860 ft.

DATUM.--Land-surface datum is 330 ft above sea level (from topographic map).

Measuring point: Air vent, east side of pump base at land-surface datum.

PERIOD OF RECORD.--January 1962, July 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 200.34 ft below land-surface datum, Nov. 20, 1995, lowest measured, 222.50 ft below land-surface datum, July 25, 1996.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 25 | 200.90      | FEB 27 | 211.51      | JUN 5  | 221.40      | SEP 19 | 218.89      |
| NOV 20 | 200.34      | MAR 21 | 212.38      | JUL 25 | 222.50      |        |             |

321733090081801. Local number, K041.

LOCATION.--Lat 32°18'28", long 90°08'08", in SE1/4 NW1/4 sec.6, T.5 N., R.2 E., Choctaw Meridian, Rankin County.  
Hydrologic Unit 03180002, 2 mi north of US Highway 80 and .3 mi east of MS Highway 468 at Flowood.

Owner: City of Flowood.

AQUIFER.--Sand of Cockfield Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused public supply artesian well, diameter 8 in, depth 800 ft.

DATUM.--Land-surface datum is 260 ft above sea level (from topographic map).

Measuring point: Air vent at pump base, 2.40 ft above land-surface datum.

PERIOD OF RECORD.--August 1959, January 1995 to current year (Discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 131.54 ft below land-surface datum, Aug. 20, 1959, lowest measured, 212.22 ft below land-surface datum, Sept. 27, 1995.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER LEVEL |
|--------|-------------|
| OCT 25 | 211.37      |
| JAN 24 | 212.13      |

## RANKIN COUNTY-Continued

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 216.84 ft below land-surface datum, Sept. 20, 1996.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| FEB 29 | 210.88         | APR 30 | 206.31         | JUN 27 | 211.05         | AUG 26 | 215.25         |
| MAR 22 | 207.11         | MAY 20 | 211.35         | JUL 25 | 213.42         | SEP 20 | 216.84         |

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                                                   |
| 124MMPS       | Memphis Sand, Eocene (Tennessee Sites ONLY)                           |
| 124TLT        | Tallahatta Formation, Eocene                                          |
| 124MUWX       | Meridian-Upper Wilcox aquifer, Eocene                                 |
| 124WLCXM      | Middle Wilcox aquifer, Eocene                                         |
| 124FRPL       | Fort Pillow Sand, Eocene (Tennessee Sites ONLY)                       |
| 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

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

BOLIVAR COUNTY

340232090445201 B112 CITY OF DUNCAN

|           |                                                      |                                                      |                                                         | PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)           |                                                              |                                                        |                                                       |                                                         |                                                         | SPE-CIFIC CON-DUCT-ANCE (US/CM)                           |                                                  |
|-----------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------|
| DATE      | TIME                                                 | GEO-LOGIC UNIT                                       | DEPTH OF WELL, TOTAL (FEET) (72008)                     | TO SAM-PLING (MIN) (72004)                             | SAMPLE SOURCE (72005)                                        | SAMPLER TYPE (CODE) (84164)                            | SAM-PLING CONDI-TION (72006)                          | SAM-PLING METHOD, CODES (82398)                         | WELL PURGING CONDI-TION (CODE) (84143)                  |                                                           | (00095)                                          |
| APR 15... | 1300                                                 | 124TLLT                                              | 1284                                                    | 60                                                     | 1                                                            | 4040                                                   | 0.10                                                  | 4040                                                    | 160                                                     | 686                                                       |                                                  |
| DATE      | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)       | TEMPER-ATURE WATER (DEG C) (00010)                   | OXYGEN, DIS-SOLVED (MG/L) (00300)                       | CALCIUM DIS-SOLVED (MG/L) (00915)                      | MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)                        | SODIUM, DIS-SOLVED (MG/L) (00930)                      | POTAS-SIUM, DIS-SOLVED (MG/L) (00935)                 | BICAR-BONATE WATER DIS IT FIELD HCO3 (MG/L AS) (00453)  | ALKA-LINITY WAT DIS TOT IT MG/L AS (39086)              | SULFATE DIS-SOLVED (MG/L AS SO4) (00945)                  |                                                  |
| APR 15... | 8.5                                                  | 25.5                                                 | 0.2                                                     | 0.21                                                   | 0.07                                                         | 160                                                    | 1.0                                                   | 361                                                     | 296                                                     | 1.0                                                       |                                                  |
| DATE      | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)           | FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)            | BROMIDE DIS-SOLVED (MG/L AS BR) (71870)                 | SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)              | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L AS N) (70300) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)      | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)     | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)       | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)   |                                                           |                                                  |
| APR 15... | 39                                                   | 0.40                                                 | 0.14                                                    | 30                                                     | 444                                                          | <0.010                                                 | <0.050                                                | 0.410                                                   | 0.50                                                    |                                                           |                                                  |
| DATE      | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)           | PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)    | IRON, DIS-SOLVED (UG/L AS FE) (01046)                   | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)            | H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)               | O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)       | RADON 222 TOTAL (PCI/L) (82303)                       | RN-222 2 SIGMA WATER, WHOLE, SOLVED (MG/L AS C) (76002) | CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)          |                                                           |                                                  |
| APR 15... | 0.790                                                | 0.840                                                | 44                                                      | <1.0                                                   | -27.0                                                        | -5.09                                                  | 78                                                    | 16                                                      | 2.8                                                     |                                                           |                                                  |
| DATE      | ACETO-CHLOR, WATER, FLTRD REC (UG/L) (49260)         | ALA-CHLOR, WATER, DISS, REC (UG/L) (46342)           | METO-LACHLOR, WATER, DISSOLV GF, REC (UG/L) (39415)     | NAPROP-AMIDE WATER, FLTRD 0.7 U (UG/L) (82684)         | PRON-AMIDE WATER, FLTRD 0.7 U (UG/L) (82676)                 | PROP-CHLOR, WATER, DISS, REC (UG/L) (04024)            | PRO-PANIL, WATER, FLTRD 0.7 U GF, REC (UG/L) (82679)  | ALDI-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (49312)     | ALDI-CARB, SULFONE, WAT, FLT GF 0.7U REC (UG/L) (49313) | ALDICA-RB SUL-FOXIDE, WAT, FLT GF 0.7U REC (UG/L) (49314) | BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)       |
| APR 15... | <0.002                                               | <0.002                                               | <0.002                                                  | <0.003                                                 | <0.003                                                       | <0.007                                                 | <0.004                                                | <0.016                                                  | <0.016                                                  | <0.021                                                    | <0.002                                           |
| DATE      | CAR-BARYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49310)  | CAR-BARYL, WATER, FLTRD, GF 0.7 U REC (UG/L) (82680) | CARBO-FURAN, WATER, FLTRD, GF 0.7U REC (UG/L) (49309)   | CARBO-FURAN, WATER, FLTRD, GF 0.7 U REC (UG/L) (82674) | 3HYDRXY CARBO-FURAN, WAT, FLT GF 0.7U REC (UG/L) (49308)     | EPTC WATER, FLTRD, GF 0.7 U REC (UG/L) (82668)         | METHIO-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (38501) | METH-OMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49296)     | MOL-INATE, WATER, FLTRD, GF 0.7 U REC (UG/L) (82671)    | OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)          | PEB-ULATE, WATER, FILTRD, GF, REC (UG/L) (82669) |
| APR 15... | <0.008                                               | <0.003                                               | <0.028                                                  | <0.003                                                 | <0.014                                                       | <0.002                                                 | <0.026                                                | <0.017                                                  | <0.004                                                  | <0.018                                                    | <0.004                                           |
| DATE      | PRO-PHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)   | PRO-POXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538)  | THIO-BENCARB, WATER, FLTRD, GF 0.7 U REC (UG/L) (82681) | TRIAL-LATE, WATER, FLTRD, GF 0.7 U REC (UG/L) (82678)  | 2,4-D, DIS-SOLVED (UG/L) (39732)                             | DICHLOR PROP, WATER, FLTRD, GF 0.7U REC (UG/L) (49302) | 2,4-DB, WATER, FLTRD, GF 0.7U REC (UG/L) (38746)      | MCPA, WATER, FLTRD, GF 0.7U REC (UG/L) (38482)          | MCPB, WATER, FLTRD, GF 0.7U REC (UG/L) (38487)          | SILVEX, DIS-SOLVED (UG/L) (39762)                         | 2,4,5-T DIS-SOLVED (UG/L) (39742)                |
| APR 15... | <0.035                                               | <0.035                                               | <0.002                                                  | <0.001                                                 | <0.035                                                       | <0.032                                                 | <0.035                                                | <0.050                                                  | <0.035                                                  | <0.021                                                    | <0.035                                           |
| DATE      | TRI-CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235) | BEN-FLUR-ALIN, WAT FLD GF, REC (UG/L) (82673)        | ETHAL-FLUR-ALIN, WAT FLT GF, REC (UG/L) (82663)         | ORY-ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292)    | PENDI-METH-ALIN, WAT FLT GF, REC (UG/L) (82683)              | TRI-FLUR-ALIN, WAT FLT GF, REC (UG/L) (82661)          | ALPHA BHC DIS-SOLVED (UG/L) (34253)                   | CHLORO-THALO-NIL, WAT, FLT GF 0.7U REC (UG/L) (49306)   | DCPA, WATER, FLTRD, GF 0.7 U REC (UG/L) (82682)         | DACTHAL MONO-ACID, WAT, FLT GF 0.7U REC (UG/L) (49304)    | P,P' DDE DISSOLV (UG/L) (34653)                  |
| APR 15... | <0.050                                               | <0.002                                               | <0.004                                                  | <0.019                                                 | <0.004                                                       | <0.002                                                 | <0.002                                                | <0.035                                                  | <0.002                                                  | <0.017                                                    | <0.006                                           |

## QUALITY OF GROUND WATER

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## WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## BOLIVAR COUNTY--Continued

340232090445201 B112 CITY OF DUNCAN--Continued

| DATE         | DICHLOR-<br>BENIL,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49303) | DI-<br>ELDRIN<br>DIS-<br>SOLVED<br>(UG/L)<br>(39381)                             | LINDANE<br>DIS-<br>SOLVED<br>(UG/L)<br>(39341)                           | METHYL<br>AZIN-<br>PHOS<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82686)     | CHLOR-<br>PYRIFOS<br>DIS-<br>SOLVED<br>(UG/L)<br>(38933)                     | DI-<br>AZINON,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39572)                         | DISUL-<br>FOTON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82677) | ETHO-<br>PROP<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82672)             | FONOFOS<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(04095)                           | MALA-<br>THION,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39532)                         | METHYL<br>PARA-<br>THION<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82667) |
|--------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| APR<br>15... | <0.020                                                                        | <0.001                                                                           | <0.004                                                                   | <0.001                                                                          | <0.004                                                                       | <0.002                                                                        | <0.017                                                                     | <0.003                                                                               | <0.003                                                                         | <0.005                                                                         | <0.006                                                                       |
| DATE         | PARA-<br>THION,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39542)                        | PHORATE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82664)               | TER-<br>BUFOS<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82675) | PER-<br>METHRIN<br>CIS<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82687)      | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632)                | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040)      | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)             | METRI-<br>BUZIN<br>WATER,<br>SENCOR<br>WATER,<br>DISSOLV<br>REC<br>(UG/L)<br>(82630) | PRO-<br>METON,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04037)                  | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035)                  | BRO-<br>MACIL,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04029)                |
| APR<br>15... | <0.004                                                                        | <0.002                                                                           | <0.013                                                                   | <0.005                                                                          | <0.001                                                                       | <0.002                                                                        | <0.004                                                                     | <0.004                                                                               | <0.018                                                                         | <0.005                                                                         | <0.035                                                                       |
| DATE         | TER-<br>BACIL<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82665)      | FEN-<br>URON,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49297)         | DIURON,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49300)       | FLUO-<br>METURON<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(38811)     | LINURON<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(38478)           | LIN-<br>URON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82666)       | NEB-<br>URON,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49294)   | TEBU-<br>THIURON<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82670)         | ACIFL-<br>UORFEN<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49315)    | BENTA-<br>ZON,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(38711)      | BRO-<br>MOXYNIL<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49311)   |
| APR<br>15... | <0.007                                                                        | <0.013                                                                           | <0.020                                                                   | <0.035                                                                          | <0.018                                                                       | <0.002                                                                        | <0.015                                                                     | <0.010                                                                               | <0.035                                                                         | <0.014                                                                         | <0.035                                                                       |
| DATE         | CHLOR-<br>AMBN,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49307)    | CLOPYR-<br>ALID,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49305)      | DICAMBA<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(38442)       | 2,6-DI-<br>ETHYL<br>ANILINE<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82660) | DINOSEB<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49301)           | DNOC<br>WAT,FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49299)                        | ESPEN-<br>VAL-<br>ERATE,<br>WAT,FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49298) | 1-NAPH<br>THOL,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49295)           | NORFLUR<br>AZON,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49293)    | PIC-<br>LORAM,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49291)      | PRO-<br>PARGITE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82685)   |
| APR<br>15... | <0.011                                                                        | <0.050                                                                           | <0.035                                                                   | <0.003                                                                          | <0.035                                                                       | <0.035                                                                        | <0.019                                                                     | <0.007                                                                               | <0.024                                                                         | <0.050                                                                         | <0.013                                                                       |
| DATE         | 1,2-<br>DIBROMO<br>ETHANE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77651)     | CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34311)                                  | 1,1-DI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34496)               | 1,2-DI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(32103)                      | 1,1,1-<br>TRI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34506)            | 1,1,2-<br>TRI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34511)             | PREON-<br>113<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77652)              | ETHANE,<br>1112-<br>TETRA-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(77652)         | ETHANE,<br>1,1,2,2<br>TETRA-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(34516) | ETHANE<br>HEXA-<br>CHLORO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(34396) | METHYL-<br>BROMIDE<br>TOTAL<br>(UG/L)<br>(34413)                             |
| APR<br>15... | <0.100                                                                        | <0.100                                                                           | <0.050                                                                   | <0.050                                                                          | <0.050                                                                       | <0.100                                                                        | <0.050                                                                     | <0.050                                                                               | <0.100                                                                         | <0.050                                                                         | <0.100                                                                       |
| DATE         | METHANE<br>BROMO<br>CHLORO-<br>WAT<br>UNFLTRD<br>REC<br>(UG/L)<br>(77297)     | DI-<br>CHLORO-<br>BROMO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(32101)                | DI-<br>BROMO-<br>METHANE<br>WHOLE<br>RECOVER<br>(UG/L)<br>(30217)        | BROMO-<br>FORM<br>TOTAL<br>(UG/L)<br>(32104)                                    | METHYL-<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(34418)                       | CHLORO-<br>DI-<br>BROMO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(32105)             | METHYL-<br>ENE<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(34423)              | DI-<br>CHLORO-<br>DI-<br>FLUORO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(34668)            | CHLORO-<br>FORM<br>TOTAL<br>(UG/L)<br>(32106)                                  | TRI-<br>CHLORO-<br>FLUORO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(34488)            | CARBON-<br>TETRA-<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(32102)             |
| APR<br>15... | <0.100                                                                        | <0.100                                                                           | <0.100                                                                   | <0.200                                                                          | VO.030                                                                       | <0.100                                                                        | <0.100                                                                     | <0.200                                                                               | <0.050                                                                         | <0.100                                                                         | <0.050                                                                       |
| DATE         | METHYL<br>IODIDE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77424)          | DIBROMO<br>CHLORO-<br>PROPANE<br>WATER<br>WHOLE<br>TOT. REC<br>(UG/L)<br>(82625) | 1,2-DI-<br>CHLORO-<br>PROPANE<br>TOTAL<br>(UG/L)<br>(34541)              | 1,3-DI-<br>CHLORO-<br>PROPANE<br>WAT. WH<br>TOTAL<br>(UG/L)<br>(77173)          | 2,2-DI-<br>CHLORO-<br>PRO-<br>PANE<br>WAT, WH<br>TOTAL<br>(UG/L)<br>(77170)  | 123-TRI<br>CHLORO-<br>PROPANE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77443) | HEXA-<br>CHLORO-<br>BUT-<br>ADIENE<br>TOTAL<br>(UG/L)<br>(39702)           | 2BUTENE<br>TRANS-1<br>4-DI-<br>CHLORO<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(73547)     | BROMO-<br>ETHENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50002)           | VINYL<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(39175)                           | 1,1-DI-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(34501)            |
| APR<br>15... | <0.050                                                                        | <0.500                                                                           | <0.050                                                                   | <0.050                                                                          | <0.050                                                                       | <0.200                                                                        | <0.200                                                                     | <5.00                                                                                | <0.100                                                                         | <0.100                                                                         | <0.100                                                                       |
| DATE         | CIS-1,2<br>DI-<br>CHLORO-<br>ETHENE<br>WATER<br>TOTAL<br>(UG/L)<br>(77093)    | 1,2-<br>TRANS DI<br>CHLORO-<br>ETHENE<br>TOTAL<br>(UG/L)<br>(34546)              | TRI-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(39180)           | TETRA-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(34475)                | PROPENE<br>3-<br>CHLORO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(78109) | 1,1-DI<br>CHLORO-<br>PRO-<br>PENE,<br>WAT, WH<br>TOTAL<br>(UG/L)<br>(77168)   | CIS<br>1,3-DI-<br>CHLORO-<br>PROPENE<br>TOTAL<br>(UG/L)<br>(34704)         | TRANS-<br>1,3-DI-<br>CHLORO-<br>PROPENE<br>TOTAL<br>(UG/L)<br>(34699)                | BENZENE<br>N-BUTYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77342)             | BENZENE<br>SEC<br>BUTYL-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77350)       | BENZENE<br>TERT-<br>BUTYL-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77353)   |
| APR<br>15... | <0.050                                                                        | <0.050                                                                           | <0.050                                                                   | <0.050                                                                          | <0.100                                                                       | <0.050                                                                        | <0.100                                                                     | <0.100                                                                               | <0.050                                                                         | <0.050                                                                         | <0.050                                                                       |



QUALITY OF GROUND WATER  
WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

BOLIVAR COUNTY--Continued

340232090445201 B112 CITY OF DUNCAN--Continued

| DATE      | ETHYL-<br>BENZENE<br>TOTAL<br>(UG/L)<br>(34371)                               | TOLUENE<br>TOTAL<br>(UG/L)<br>(34010)                                      | O-<br>XYLENE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77135)                  | META/<br>PARA-<br>XYLENE<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(85795)        | BENZENE<br>123-TRI<br>METHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77221) | BENZENE<br>124-TRI<br>METHYL<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77222)         | BENZENE<br>135-TRI<br>METHYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77226)    | PREH-<br>NITENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(49999)                   | ISO-<br>DURENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50000)            | ISO-<br>PROPYL-<br>BENZENE<br>WATER<br>WHOLE<br>REC<br>(UG/L)<br>(77223)       | BENZENE<br>N-PROPYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77224)               |
|-----------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| APR 15... | <0.050                                                                        | <0.050                                                                     | <0.050                                                                        | <0.050                                                                          | <0.050                                                                            | 0.120                                                                           | <0.050                                                                          | <0.050                                                                                | <0.050                                                                        | <0.050                                                                         | <0.050                                                                            |
| DATE      | TOLUENE<br>O-ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77220)       | P-ISO-<br>PROPYL-<br>TOLUENE<br>WATER<br>WHOLE<br>REC<br>(UG/L)<br>(77356) | BENZENE<br>TOTAL<br>(UG/L)<br>(34030)                                         | NAPHTH-<br>ALENE<br>TOTAL<br>(UG/L)<br>(34696)                                  | STYRENE<br>TOTAL<br>(UG/L)<br>(77128)                                             | ACETONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(81552)                         | ETHER<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81576)             | ETHER<br>TERT-<br>BUTYL<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50004) | METHYL<br>TERT-<br>BUTYL<br>ETHER<br>WAT UNF<br>REC<br>(UG/L)<br>(78032)      | ETHER<br>TERT-<br>PENTYL<br>METHYL-<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50005) | DI-ISO-<br>PROPYL-<br>ETHER,<br>WATER,<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81577) |
| APR 15... | <0.050                                                                        | <0.050                                                                     | <0.050                                                                        | <0.200                                                                          | <0.050                                                                            | <5.00                                                                           | <0.100                                                                          | <0.100                                                                                | <0.100                                                                        | <0.100                                                                         | <0.100                                                                            |
| DATE      | FURAN<br>TETRA-<br>HYDRO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81607) | 2-HEXA-<br>NONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77103)            | METHYL-<br>ISO-<br>BUTYL-<br>KETONE<br>WAT. WH.<br>TOTAL<br>(UG/L)<br>(78133) | METHYL-<br>ETHYL-<br>KETONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(81595)     | BROMO-<br>BENZENE<br>WATER,<br>WHOLE,<br>TOTAL<br>(UG/L)<br>(81555)               | CHLORO-<br>BENZENE<br>UNFLTRD<br>TOTAL<br>(UG/L)<br>(34301)                     | BENZENE<br>O-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34536)     | BENZENE<br>1,3-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34566)         | BENZENE<br>1,4-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34571) | 1,2,3-<br>TRI-<br>CHLORO-<br>BENZENE<br>WAT, WH<br>REC<br>(UG/L)<br>(77613)    | BENZENE<br>1,2,4-<br>TRI-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(34551)       |
| APR 15... | <5.00                                                                         | <5.00                                                                      | <5.00                                                                         | 1.20                                                                            | <0.050                                                                            | <0.050                                                                          | <0.050                                                                          | <0.050                                                                                | <0.050                                                                        | <0.200                                                                         | <0.200                                                                            |
| DATE      | O-<br>CHLORO-<br>TOLUENE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77275)      | TOLUENE<br>P-CHLOR<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77277)         | CARBON<br>DI-<br>SULFIDE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77041)      | METHAC-<br>RYLATE<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(73570) | METHYL<br>ACRY-<br>LATE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(49991)       | METH-<br>ACRYLO-<br>NITRILE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81593) | METHAC-<br>RYLATE<br>METHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81597) | ACRO-<br>LEIN<br>TOTAL<br>(UG/L)<br>(34210)                                           | ACRYLO-<br>NITRILE<br>TOTAL<br>(UG/L)<br>(34215)                              | ACETATE<br>VINYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77057)           |                                                                                   |
| APR 15... | <0.050                                                                        | <0.050                                                                     | <0.050                                                                        | <1.00                                                                           | <2.00                                                                             | <2.00                                                                           | <1.00                                                                           | <2.00                                                                                 | <2.00                                                                         | <5.00                                                                          |                                                                                   |

333914091002901 N051 CITY OF BENOIT

| DATE      | TIME                                                                          | GEO-<br>LOGIC<br>UNIT                                                    | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET)<br>(72008)                       | 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)                              | WELL<br>PURGING<br>CONDI-<br>TION<br>(CODE)<br>(84143)                     | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095)                    | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400)  | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010)                   |
|-----------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------|
| APR 11... | 1000                                                                          | 124SPRT                                                                  | 650.00                                                                   | 60                                                                         | 47                                                                           | 4040                                                                       | 0.10                                                                     | 4040                                                                      | 160                                                                        | 359                                                                             | 8.9                                                                   | 21.0                                                              |
| DATE      | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300)                                | 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)          | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L)<br>AS NA<br>(00930)                    | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L)<br>AS K<br>(00935)               | BICAR-<br>BONATE<br>WATER<br>DIS IT<br>FIELD<br>HCO3<br>MG/L AS<br>(00453) | ALKA-<br>LINITY<br>WAT DIS<br>TOT IT<br>MG/L AS<br>CACO3<br>(39086)      | SULFATE<br>DIS-<br>SOLVED<br>(MG/L)<br>AS SO4<br>(00945)                  | 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)                   | BROMIDE<br>DIS-<br>SOLVED<br>(MG/L)<br>AS BR<br>(71870)               | SILICA,<br>DIS-<br>SOLVED<br>(MG/L)<br>AS<br>SIO2<br>(00955)      |
| APR 11... | 0                                                                             | 0.26                                                                     | 0.08                                                                     | 81                                                                         | 0.70                                                                         | 183                                                                        | 150                                                                      | 0.30                                                                      | 20                                                                         | 0.30                                                                            | 0.11                                                                  | 11                                                                |
| DATE      | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L)<br>AS N<br>(00613) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L)<br>AS N<br>(00631) | 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>DIS.<br>(MG/L)<br>AS N<br>(00623) | 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) | 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)            | RADON<br>222<br>TOTAL<br>(PCI/L)<br>(82303)                                     | RN-222<br>2 SIGMA<br>WATER,<br>WHOLE,<br>TOTAL,<br>(PCI/L)<br>(76002) | CARBON,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L)<br>AS C<br>(00681) |
| APR 11... | 202                                                                           | <0.010                                                                   | <0.050                                                                   | 0.390                                                                      | 0.50                                                                         | 0.330                                                                      | 0.320                                                                    | 14                                                                        | <1.0                                                                       | 170                                                                             | 20                                                                    | 2.0                                                               |
| DATE      | 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)            | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>GF, REC<br>(UG/L)<br>(39415)     | NAPROP-<br>AMIDE<br>WATER<br>FLTRD<br>GF, REC<br>(UG/L)<br>(82684)         | PRON-<br>AMIDE<br>WATER<br>FLTRD<br>GF, REC<br>(UG/L)<br>(82676)             | PROP-<br>CHLOR,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04024)             | PRO-<br>PANIL<br>WATER<br>FLTRD<br>GF, REC<br>(UG/L)<br>(82679)          | ALDI-<br>CARB,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49312) | ALDI-<br>CARB<br>SULFONE<br>WAT,FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49313) | ALDICA-<br>RB SUL-<br>FOXIDE,<br>WAT,FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49314) | BUTYL-<br>ATE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04028)         |                                                                   |
| APR 11... | <0.002                                                                        | <0.002                                                                   | <0.002                                                                   | <0.003                                                                     | <0.003                                                                       | <0.007                                                                     | <0.004                                                                   | <0.016                                                                    | <0.016                                                                     | <0.021                                                                          | <0.002                                                                |                                                                   |

## WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## BOLIVAR COUNTY--Continued

## 333914091002901 N051 CITY OF BENOIT--Continued

| DATE      | CAR-BARYL, WATER, FLTRD, GF 0.7U<br>REC<br>(UG/L)<br>(49310)     | CAR-BARYL, WATER, FLTRD, GF, REC<br>(UG/L)<br>(82680)          | CARBO-FURAN, WATER, FLTRD, REC<br>(UG/L)<br>(49309)        | CARBO-FURAN, WATER, FLTRD, GF, REC<br>(UG/L)<br>(82674)         | 3HYDRXY CARBO-FURAN, WAT, FLT<br>REC<br>(UG/L)<br>(49308)  | EPTC WATER, FLTRD, GF, REC<br>(UG/L)<br>(82668)                 | METHIO-CARB, WATER, FLTRD, REC<br>(UG/L)<br>(38501)              | METH-OMYL, WATER, FLTRD, REC<br>(UG/L)<br>(49296)                    | MOL-INATE, WATER, FLTRD, GF, REC<br>(UG/L)<br>(82671)            | OXAMYL, WATER, FLTRD, REC<br>(UG/L)<br>(38866)                     | PEB-ULATE, WATER, FLTRD, GF, REC<br>(UG/L)<br>(82669)              |
|-----------|------------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|
| APR 11... | <0.008                                                           | <0.003                                                         | <0.028                                                     | <0.003                                                          | <0.014                                                     | <0.002                                                          | <0.026                                                           | <0.017                                                               | <0.004                                                           | <0.018                                                             | <0.004                                                             |
| DATE      | PRO-PHAM, WATER, FLTRD, GF 0.7U<br>REC<br>(UG/L)<br>(49236)      | PRO-POKUR, WATER, FLTRD, GF 0.7U<br>REC<br>(UG/L)<br>(38538)   | THIO-BENCARB, WATER, FLTRD, GF, REC<br>(UG/L)<br>(82681)   | TRIAL-LATE, WATER, FLTRD, GF, REC<br>(UG/L)<br>(82678)          | 2,4-D, DIS-SOLVED<br>(UG/L)<br>(39732)                     | DICHLOR PROP, WATER, FLTRD, REC<br>(UG/L)<br>(49302)            | 2,4-DB, WATER, FLTRD, GF 0.7U<br>REC<br>(UG/L)<br>(38746)        | MCPA, WATER, FLTRD, GF 0.7U<br>REC<br>(UG/L)<br>(38482)              | MCPB, WATER, FLTRD, GF 0.7U<br>REC<br>(UG/L)<br>(38487)          | SILVEX, DIS-SOLVED<br>(UG/L)<br>(39762)                            | 2,4,5-T, DIS-SOLVED<br>(UG/L)<br>(39742)                           |
| APR 11... | <0.035                                                           | <0.035                                                         | <0.002                                                     | <0.001                                                          | <0.035                                                     | <0.032                                                          | <0.035                                                           | <0.050                                                               | <0.035                                                           | <0.021                                                             | <0.035                                                             |
| DATE      | TRI-CLOPYR, WATER, FLTRD, GF 0.7U<br>REC<br>(UG/L)<br>(49235)    | BEN-FLUR-ALIN, WAT FLT<br>GF, REC<br>(UG/L)<br>(82673)         | ETHAL-FLUR-ALIN, WAT FLT<br>GF, REC<br>(UG/L)<br>(82663)   | ORY-ZALIN, WATER, FLTRD, GF 0.7U<br>REC<br>(UG/L)<br>(49292)    | PENDI-METH-ALIN, WAT FLT<br>GF, REC<br>(UG/L)<br>(82683)   | TRI-FLUR-ALIN, WAT FLT<br>GF, REC<br>(UG/L)<br>(82661)          | ALPHA BHC, DIS-SOLVED<br>(UG/L)<br>(34253)                       | CHLORO-THALO-NIL, WAT, FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49306)    | DCPA, WATER, FLTRD, GF 0.7U<br>GF, REC<br>(UG/L)<br>(82682)      | DACTHAL MONO-ACID, WAT, FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49304) | P, P' DDE, DISSOLV<br>(UG/L)<br>(34653)                            |
| APR 11... | <0.050                                                           | <0.002                                                         | <0.004                                                     | <0.019                                                          | <0.004                                                     | <0.002                                                          | <0.002                                                           | <0.035                                                               | <0.002                                                           | <0.017                                                             | <0.006                                                             |
| DATE      | DICHLOR-BENIL, WATER, FLTRD, GF 0.7U<br>REC<br>(UG/L)<br>(49303) | DI-ELDRIN, DIS-SOLVED<br>(UG/L)<br>(39381)                     | LINDANE, DIS-SOLVED<br>(UG/L)<br>(39341)                   | METHYL AZIN-THION, WAT FLT<br>GF, REC<br>(UG/L)<br>(82686)      | CHLOR-PYRIFOS, DIS-SOLVED<br>(UG/L)<br>(38933)             | DI-AZINON, DIS-SOLVED<br>(UG/L)<br>(39572)                      | DISUL-FOTON, WATER, FLTRD, GF, REC<br>(UG/L)<br>(82677)          | ETHO-PROP, WATER, FLTRD, GF, REC<br>(UG/L)<br>(82672)                | FONOFOS, WATER, DISS, REC<br>(UG/L)<br>(04095)                   | MALA-THION, DIS-SOLVED<br>(UG/L)<br>(39532)                        | METHYL PARA-THION, WAT FLT<br>GF, REC<br>(UG/L)<br>(82667)         |
| APR 11... | <0.020                                                           | <0.001                                                         | <0.004                                                     | <0.001                                                          | <0.004                                                     | <0.002                                                          | <0.017                                                           | <0.003                                                               | <0.003                                                           | <0.005                                                             | <0.006                                                             |
| DATE      | PARA-THION, DIS-SOLVED<br>(UG/L)<br>(39542)                      | PHORATE, WATER, FLTRD, GF, REC<br>(UG/L)<br>(82664)            | TER-BUPOS, WATER, FLTRD, GF, REC<br>(UG/L)<br>(82675)      | PER-METHRIN, WAT FLT<br>GF, REC<br>(UG/L)<br>(82687)            | ATRA-ZINE, WATER, DISS, REC<br>(UG/L)<br>(39632)           | DEETHYL ATRA-ZINE, WATER, DISS, REC<br>(UG/L)<br>(04040)        | CYANA-ZINE, WATER, DISS, REC<br>(UG/L)<br>(04041)                | METRI-BUZIN, SENCOR, WATER, DISS, REC<br>(UG/L)<br>(82630)           | PRO-METON, WATER, DISS, REC<br>(UG/L)<br>(04037)                 | SI-MAZINE, WATER, DISS, REC<br>(UG/L)<br>(04035)                   | BRO-MACIL, WATER, DISS, REC<br>(UG/L)<br>(04029)                   |
| APR 11... | <0.004                                                           | <0.002                                                         | <0.013                                                     | <0.005                                                          | <0.001                                                     | <0.002                                                          | <0.004                                                           | <0.004                                                               | <0.018                                                           | <0.005                                                             | <0.035                                                             |
| DATE      | TER-BACIL, WATER, FLTRD, GF 0.7U<br>GF, REC<br>(UG/L)<br>(82665) | FEN-URON, WATER, FLTRD, GF 0.7U<br>REC<br>(UG/L)<br>(49297)    | DIURON, WATER, FLTRD, GF 0.7U<br>REC<br>(UG/L)<br>(49300)  | FLUO-METURON, WATER, FLTRD, GF 0.7U<br>REC<br>(UG/L)<br>(38811) | LINURON, WATER, FLTRD, GF 0.7U<br>REC<br>(UG/L)<br>(38478) | LIN-URON, WATER, FLTRD, GF 0.7U<br>GF, REC<br>(UG/L)<br>(82666) | NEB-URON, WATER, FLTRD, GF 0.7U<br>REC<br>(UG/L)<br>(49294)      | TEBU-THIURON, WATER, FLTRD, GF 0.7U<br>GF, REC<br>(UG/L)<br>(82670)  | ACIFL-UORFEN, WATER, FLTRD, GF 0.7U<br>REC<br>(UG/L)<br>(49315)  | BENTA-ZON, WATER, FLTRD, GF 0.7U<br>REC<br>(UG/L)<br>(38711)       | BRO-MOXYNIL, WATER, FLTRD, GF 0.7U<br>REC<br>(UG/L)<br>(49311)     |
| APR 11... | <0.007                                                           | <0.013                                                         | <0.020                                                     | <0.035                                                          | <0.018                                                     | <0.002                                                          | <0.015                                                           | <0.010                                                               | <0.035                                                           | <0.014                                                             | <0.035                                                             |
| DATE      | CHLOR-AMBN, WATER, FLTRD, GF 0.7U<br>REC<br>(UG/L)<br>(49307)    | CLOPYR-ALID, WATER, FLTRD, GF 0.7U<br>REC<br>(UG/L)<br>(49305) | DICAMBA, WATER, FLTRD, GF 0.7U<br>REC<br>(UG/L)<br>(38442) | 2,6-DI-ETHYL ANILINE, WAT FLT<br>GF, REC<br>(UG/L)<br>(82660)   | DINOSB, WATER, FLTRD, GF 0.7U<br>REC<br>(UG/L)<br>(49301)  | DNOC, WAT, FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49299)           | ESFEN-VAL-ERATE, WAT, FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49298) | 1-NAPH-THOL, WATER, FLTRD, GF 0.7U<br>REC<br>(UG/L)<br>(49295)       | NORFLUR, AZON, WATER, FLTRD, GF 0.7U<br>REC<br>(UG/L)<br>(49293) | PIC-LORAM, WATER, FLTRD, GF 0.7U<br>REC<br>(UG/L)<br>(49291)       | PRO-PARGITE, WATER, FLTRD, GF 0.7U<br>GF, REC<br>(UG/L)<br>(82685) |
| APR 11... | <0.011                                                           | <0.050                                                         | <0.035                                                     | <0.003                                                          | <0.035                                                     | <0.035                                                          | <0.019                                                           | <0.007                                                               | <0.024                                                           | <0.050                                                             | <0.013                                                             |
| DATE      | 1,2-DIBROMO ETHANE, WATER, WHOLE TOTAL<br>(UG/L)<br>(77651)      | CHLORO-ETHANE, TOTAL<br>(UG/L)<br>(34311)                      | 1,1-DI-CHLORO-ETHANE, TOTAL<br>(UG/L)<br>(34496)           | 1,2-DI-CHLORO-ETHANE, TOTAL<br>(UG/L)<br>(32103)                | 1,1,1-TRI-CHLORO-ETHANE, TOTAL<br>(UG/L)<br>(34506)        | 1,1,2-TRI-CHLORO-ETHANE, TOTAL<br>(UG/L)<br>(34511)             | FREON-113, WATER, UNFLTRD, REC<br>(UG/L)<br>(77652)              | ETHANE, 1112-TETRA-CHLORO-CHLORO-WAT UNF<br>REC<br>(UG/L)<br>(77562) | ETHANE, 1,1,2,2-TETRA-CHLORO-WAT UNF<br>REC<br>(UG/L)<br>(34516) | ETHANE, HEXA-CHLORO-WAT UNF<br>RECOVER<br>(UG/L)<br>(34396)        | METHYL-BROMIDE, TOTAL<br>(UG/L)<br>(34413)                         |
| APR 11... | <0.100                                                           | <0.100                                                         | <0.050                                                     | <0.050                                                          | <0.050                                                     | <0.100                                                          | <0.050                                                           | <0.050                                                               | <0.100                                                           | <0.050                                                             | <0.100                                                             |

## QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

BOLIVAR COUNTY--Continued

333914091002901 N051 CITY OF BENOIT--Continued

|              | METHANE<br>BROMO-<br>CHLORO-<br>WAT<br>UNFLTRD<br>REC<br>(UG/L)<br>(77297)    | DI-<br>CHLORO-<br>BROMO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(32101)                | DI-<br>BROMO-<br>METHANE<br>WATER<br>WHOLE<br>RECOVER<br>(UG/L)<br>(30217)   | BROMO-<br>FORM<br>TOTAL<br>(UG/L)<br>(32104)                                    | METHYL-<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(34418)                            | CHLORO-<br>DI-<br>BROMO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(32105)                | METHYL-<br>ENE<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(34423)                   | DI-<br>CHLORO-<br>DI-<br>FLUORO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(34668)         | CHLORO-<br>FORM<br>TOTAL<br>(UG/L)<br>(32106)                                 | TRI-<br>CHLORO-<br>FLUORO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(34488)            | CARBON-<br>TETRA-<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(32102)                  |
|--------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| APR<br>11... | <0.100                                                                        | <0.100                                                                           | <0.100                                                                       | <0.200                                                                          | <0.200                                                                            | <0.100                                                                           | <0.100                                                                          | <0.200                                                                            | <0.050                                                                        | <0.100                                                                         | <0.050                                                                            |
| DATE         | METHYL<br>IODIDE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77424)          | DIBROMO<br>CHLORO-<br>PROPANE<br>WATER<br>WHOLE<br>TOT. REC<br>(UG/L)<br>(82625) | 1,2-DI-<br>CHLORO-<br>PROPANE<br>TOTAL<br>(UG/L)<br>(34541)                  | 1,3-DI-<br>CHLORO-<br>PROPANE<br>WAT. WH<br>TOTAL<br>(UG/L)<br>(77173)          | 2,2-DI-<br>CHLORO-<br>PRO-<br>PANE<br>WAT, WH<br>TOTAL<br>(UG/L)<br>(77170)       | 123-TRI<br>CHLORO-<br>PROPANE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77443)    | HEXA-<br>CHLORO-<br>BUT-<br>ADIENE<br>TOTAL<br>(UG/L)<br>(39702)                | 2BUTENE<br>TRANS-1<br>4-DI-<br>CHLORO-<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(73547) | BROMO-<br>ETHENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50002)          | VINYL<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(39175)                           | 1,1-DI-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(34501)                 |
| APR<br>11... | <0.050                                                                        | <0.500                                                                           | <0.050                                                                       | <0.050                                                                          | <0.050                                                                            | <0.200                                                                           | <0.200                                                                          | <5.00                                                                             | <0.100                                                                        | <0.100                                                                         | <0.100                                                                            |
| DATE         | CIS-1,2<br>-DI-<br>CHLORO-<br>ETHENE<br>WATER<br>TOTAL<br>(UG/L)<br>(77093)   | 1,2-<br>TRANS-<br>DI-<br>CHLORO-<br>ETHENE<br>TOTAL<br>(UG/L)<br>(34546)         | TRI-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(39180)               | TETRA-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(34475)                | PROPENE<br>3-<br>CHLORO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(78109)      | 1,1-DI-<br>CHLORO-<br>PRO-<br>PENE,<br>WAT, WH<br>TOTAL<br>(UG/L)<br>(77168)     | CIS<br>1,3-DI-<br>CHLORO-<br>PROPENE<br>TOTAL<br>(UG/L)<br>(34704)              | TRANS-<br>1,3-DI-<br>CHLORO-<br>PROPENE<br>TOTAL<br>(UG/L)<br>(34699)             | BENZENE<br>N-BUTYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77342)            | BENZENE<br>SEC<br>BUTYL-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77350)       | BENZENE<br>TERT-<br>BUTYL-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77353)        |
| APR<br>11... | <0.050                                                                        | <0.050                                                                           | <0.050                                                                       | <0.050                                                                          | <0.100                                                                            | <0.050                                                                           | <0.100                                                                          | <0.100                                                                            | <0.050                                                                        | <0.050                                                                         | <0.050                                                                            |
| DATE         | ETHYL-<br>BENZENE<br>TOTAL<br>(UG/L)<br>(34371)                               | TOLUENE<br>TOTAL<br>(UG/L)<br>(34010)                                            | O-<br>XYLENE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77135)                 | META/<br>PARA-<br>XYLENE<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(85795)        | BENZENE<br>123-TRI<br>METHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77221) | BENZENE<br>124-TRI<br>METHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77222) | BENZENE<br>135-TRI<br>METHYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77226)    | PREH-<br>NITENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(49999)               | ISO-<br>DURENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50000)            | ISO-<br>PROPYL-<br>BENZENE<br>WATER<br>WHOLE<br>REC<br>(UG/L)<br>(77223)       | BENZENE<br>N-PROPYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77224)               |
| APR<br>11... | <0.050                                                                        | <0.050                                                                           | <0.050                                                                       | <0.050                                                                          | <0.050                                                                            | E0.010                                                                           | <0.050                                                                          | <0.050                                                                            | <0.050                                                                        | <0.050                                                                         | <0.050                                                                            |
| DATE         | TOLUENE<br>O-ETHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77220)        | P-ISO-<br>PROPYL-<br>TOLUENE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77356)     | BENZENE<br>TOTAL<br>(UG/L)<br>(34030)                                        | NAPHTH-<br>ALENE<br>WATER<br>UNFLTRD<br>TOTAL<br>(UG/L)<br>(34696)              | STYRENE<br>TOTAL<br>(UG/L)<br>(77128)                                             | ACETONE<br>WATER<br>WHOLE<br>UNFLTRD<br>TOTAL<br>(UG/L)<br>(81552)               | ETHER<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81576)             | ETHER<br>TERT-<br>BUTYL<br>ETHYL-<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50004)      | METHYL<br>TERT-<br>BUTYL<br>ETHER<br>WAT UNF<br>REC<br>(UG/L)<br>(78032)      | ETHER<br>TERT-<br>PENTYL<br>METHYL-<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50005) | DI-ISO-<br>PROPYL-<br>ETHER,<br>WATER,<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81577) |
| APR<br>11... | <0.050                                                                        | <0.050                                                                           | <0.050                                                                       | <0.200                                                                          | <0.050                                                                            | <5.00                                                                            | <0.100                                                                          | <0.100                                                                            | <0.100                                                                        | <0.100                                                                         | <0.100                                                                            |
| DATE         | FURAN<br>TETRA-<br>HYDRO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81607) | 2-HEXA-<br>NONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77103)                  | METHYL-<br>ISO-<br>BUTYL-<br>KETONE<br>WAT. WH<br>TOTAL<br>(UG/L)<br>(78133) | METHYL-<br>ETHYL-<br>KETONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(81595)     | BROMO-<br>BENZENE<br>WATER,<br>WHOLE,<br>TOTAL<br>(UG/L)<br>(81555)               | CHLORO-<br>BENZENE<br>TOTAL<br>(UG/L)<br>(34301)                                 | BENZENE<br>O-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34536)     | BENZENE<br>1,3-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34566)     | BENZENE<br>1,4-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34571) | 1,2,3-<br>TRI-<br>CHLORO-<br>BENZENE<br>WAT, WH<br>REC<br>(UG/L)<br>(77613)    | BENZENE<br>1,2,4-<br>TRI-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(34551)       |
| APR<br>11... | <5.00                                                                         | <5.00                                                                            | <5.00                                                                        | E0.500                                                                          | <0.050                                                                            | <0.050                                                                           | <0.050                                                                          | <0.050                                                                            | <0.050                                                                        | <0.200                                                                         | <0.200                                                                            |
| DATE         | O-<br>CHLORO-<br>TOLUENE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77275)      | TOLUENE<br>P-CHLOR<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77277)               | CARBON<br>DI-<br>SULFIDE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77041)     | METHAC-<br>RYLATE<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(73570) | METHYL<br>ACRY-<br>LATE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(49991)       | METH-<br>ACRYLO-<br>NITRITE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81593)  | METHAC-<br>RYLATE<br>METHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81597) | ACRO-<br>LEIN<br>TOTAL<br>(UG/L)<br>(34210)                                       | ACRYLO-<br>NITRILE<br>TOTAL<br>(UG/L)<br>(34215)                              | ACETATE<br>VINYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77057)           |                                                                                   |
| APR<br>11... | <0.050                                                                        | <0.050                                                                           | <0.050                                                                       | <1.00                                                                           | <2.00                                                                             | <2.00                                                                            | <1.00                                                                           | <2.00                                                                             | <2.00                                                                         | <2.00                                                                          | <5.00                                                                             |

## WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## DE SOTO COUNTY

345814089584801 C021 CITY OF SOUTHAVEN

|           |        | PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)            |                                                     |                                                        |                                                        | SAMPLER TYPE (CODE)                                         |                                                       | SAMPLING CONDITION (72006)                              |                                                     | SAMPLING METHOD, CODES (82398)                      |                                                      | WELL PURGING CONDITION (84143)                         |                                                | SPECIFIC CONDUCTANCE (US/CM) (00095) |  | PH WATER WHOLE FIELD (STANDARD UNITS) (00400) |  | TEMPERATURE WATER (DEG C) (00010) |  |
|-----------|--------|---------------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|------------------------------------------------------|--------------------------------------------------------|------------------------------------------------|--------------------------------------|--|-----------------------------------------------|--|-----------------------------------|--|
| DATE      | TIME   | GEO-LOGIC UNIT                                          | DEPTH OF WELL, TOTAL (FEET) (72008)                 |                                                        |                                                        | SAMPLE SOURCE (72005)                                       |                                                       |                                                         |                                                     |                                                     |                                                      |                                                        |                                                |                                      |  |                                               |  |                                   |  |
| MAY 08... | 1400   | 124SPRT                                                 | 458.00                                              | >60                                                    | 1                                                      | 4040                                                        | 0.10                                                  | 4040                                                    | 160                                                 | 89                                                  | 6.0                                                  | 17.5                                                   |                                                |                                      |  |                                               |  |                                   |  |
| DATE      |        | OXYGEN, DIS-SOLVED (MG/L) (00300)                       | CALCIUM DIS-SOLVED (MG/L AS CA) (00915)             | MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)             | SODIUM, DIS-SOLVED (MG/L AS NA) (00930)                | POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)                   | BICARBONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453) | ALKALINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945)            | CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)           | FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)             | BROMIDE DIS-SOLVED (MG/L AS BR) (71870)                | SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)      |                                      |  |                                               |  |                                   |  |
| MAY 08... | 2.7    | 6.0                                                     | 2.2                                                 | 8.1                                                    | 0.70                                                   | 48                                                          | 39                                                    | 2.4                                                     | 3.9                                                 | <0.10                                               | 0.050                                                | 16                                                     |                                                |                                      |  |                                               |  |                                   |  |
| DATE      |        | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300) | NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)    | NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)       | NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)       | NITROGEN, AMMONIA + ORGANIC DIS-SOLVED (MG/L AS N) (00623)  | PHOSPHORUS DIS-SOLVED (MG/L AS P) (00666)             | PHOSPHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)        | IRON, DIS-SOLVED (MG/L AS FE) (01046)               | MANGANESE, DIS-SOLVED (MG/L AS MN) (01056)          | RADON 222 TOTAL (PCI/L) (82303)                      | RN-222 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L) (76002)    | CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681) |                                      |  |                                               |  |                                   |  |
| MAY 08... | 50     | <0.010                                                  | 0.160                                               | 0.030                                                  | <0.20                                                  | 0.020                                                       | 0.020                                                 | 8.0                                                     | <1.0                                                | 91                                                  | 16                                                   | 5.7                                                    |                                                |                                      |  |                                               |  |                                   |  |
| DATE      |        | ACETOCHLOR, WATER, FLTRD REC (UG/L) (49260)             | ALACHLOR, WATER, FLTRD, DISS, REC (UG/L) (46342)    | METOLACHLOR, WATER, FLTRD, DISSOLV (UG/L) (39415)      | NAPROPRAMIDE WATER, FLTRD 0.7 U GF, REC (UG/L) (82684) | PRONAMIDE WATER, FLTRD 0.7 U GF, REC (UG/L) (82676)         | PROPYLCHLOR, WATER, FLTRD, DISS, REC (UG/L) (04024)   | PRO-PANIL WATER, FLTRD 0.7 U GF, REC (UG/L) (82679)     | ALDICARB, WATER, FLTRD, GF 0.7U (UG/L) (49312)      | ALDICARB, SULFONE, WAT, FLT GF 0.7U (UG/L) (49313)  | ALDICARB, SULFOXIDE, WAT, FLT GF 0.7U (UG/L) (49314) | BUTYLATE, WATER, FLTRD, DISS, REC (UG/L) (04028)       |                                                |                                      |  |                                               |  |                                   |  |
| MAY 08... | <0.002 | <0.002                                                  | <0.002                                              | <0.003                                                 | <0.003                                                 | <0.007                                                      | <0.004                                                | <0.016                                                  | <0.016                                              | <0.021                                              | <0.002                                               |                                                        |                                                |                                      |  |                                               |  |                                   |  |
| DATE      |        | CARBARYL, WATER, FLTRD GF 0.7U (UG/L) (49310)           | CARBARYL, WATER, FLTRD 0.7 U GF, REC (UG/L) (82680) | CARBOFURAN, WATER, FLTRD 0.7 U GF, REC (UG/L) (49309)  | CARBOFURAN, WATER, FLTRD 0.7 U GF, REC (UG/L) (82674)  | 3HYDRXY CARBOFURAN, WAT, FLT GF 0.7U GF, REC (UG/L) (49308) | EPTC WATER, FLTRD 0.7 U GF, REC (UG/L) (82668)        | METHIOCARB, WATER, FLTRD, GF 0.7U (UG/L) (38501)        | METHOMYL, WATER, FLTRD, GF 0.7U (UG/L) (49296)      | MOLINATE, WATER, FLTRD 0.7 U GF, REC (UG/L) (82671) | OXAMYL, WATER, FLTRD, GF 0.7U (UG/L) (38866)         | PEBULATE, WATER, FLTRD 0.7 U GF, REC (UG/L) (82669)    |                                                |                                      |  |                                               |  |                                   |  |
| MAY 08... | <0.008 | <0.003                                                  | <0.028                                              | <0.003                                                 | <0.014                                                 | <0.002                                                      | <0.026                                                | <0.017                                                  | <0.004                                              | <0.018                                              | <0.004                                               |                                                        |                                                |                                      |  |                                               |  |                                   |  |
| DATE      |        | PROPHAM, WATER, FLTRD GF 0.7U (UG/L) (49236)            | PROPOXUR, WATER, FLTRD GF 0.7U (UG/L) (38538)       | THIOBENCARB, WATER, FLTRD 0.7 U GF, REC (UG/L) (82681) | TRIALATE, WATER, FLTRD 0.7 U GF, REC (UG/L) (82678)    | 2,4-D, DIS-SOLVED (UG/L) (39732)                            | DICHLORPROP, WATER, FLTRD, GF 0.7U (UG/L) (49302)     | 2,4-DB, WATER, FLTRD, GF 0.7U (UG/L) (38746)            | MCPA, WATER, FLTRD, GF 0.7U (UG/L) (38482)          | MCPB, WATER, FLTRD, GF 0.7U (UG/L) (38487)          | SILVEX, DIS-SOLVED (UG/L) (39762)                    | 2,4,5-T DIS-SOLVED (UG/L) (39742)                      |                                                |                                      |  |                                               |  |                                   |  |
| MAY 08... | <0.035 | <0.035                                                  | <0.002                                              | <0.001                                                 | <0.035                                                 | <0.032                                                      | <0.035                                                | <0.050                                                  | <0.035                                              | <0.021                                              | <0.035                                               |                                                        |                                                |                                      |  |                                               |  |                                   |  |
| DATE      |        | TRICLOPYR, WATER, FLTRD GF 0.7U (UG/L) (49235)          | BENFLURALIN, WAT FLT 0.7 U GF, REC (UG/L) (82673)   | ETHALFLURALIN, WAT FLT 0.7 U GF, REC (UG/L) (82663)    | ORYZALIN, WATER, FLTRD 0.7 U GF, REC (UG/L) (49292)    | PENDIMETHALIN, WAT FLT 0.7 U GF, REC (UG/L) (82683)         | TRIFLURALIN, WAT FLT 0.7 U GF, REC (UG/L) (82661)     | ALPHA BHC, WAT, FLT DIS-SOLVED (UG/L) (34253)           | CHLOROTHALONIL, WAT, FLT GF 0.7U (UG/L) (49306)     | DCPA, WATER, FLTRD 0.7 U GF, REC (UG/L) (82682)     | DACTHAL MONOACID, WAT, FLT GF 0.7U (UG/L) (49304)    | P,P' DDE DISSOLV (UG/L) (34653)                        |                                                |                                      |  |                                               |  |                                   |  |
| MAY 08... | <0.050 | <0.002                                                  | <0.004                                              | <0.019                                                 | <0.004                                                 | <0.002                                                      | <0.002                                                | <0.035                                                  | <0.002                                              | <0.017                                              | <0.006                                               |                                                        |                                                |                                      |  |                                               |  |                                   |  |
| DATE      |        | DICHLOROBENIL, WATER, FLTRD GF 0.7U (UG/L) (49303)      | DI-ELDRIN DIS-SOLVED (UG/L) (39381)                 | LINDANE DIS-SOLVED (UG/L) (39341)                      | METHYL AZINPHOS, WAT FLT 0.7 U GF, REC (UG/L) (82686)  | CHLORPYRIFOS, DIS-SOLVED (UG/L) (38933)                     | DI-AZINON, DIS-SOLVED (UG/L) (39572)                  | DISULFOTON, WATER, FLTRD 0.7 U GF, REC (UG/L) (82677)   | ETHOPROP, WATER, FLTRD 0.7 U GF, REC (UG/L) (82672) | PONOFOS, WATER, DISS REC (UG/L) (04095)             | MALATHION, DIS-SOLVED (UG/L) (39532)                 | METHYL PARATHION, WAT FLT 0.7 U GF, REC (UG/L) (82667) |                                                |                                      |  |                                               |  |                                   |  |
| MAY 08... | <0.020 | <0.001                                                  | <0.004                                              | <0.001                                                 | <0.004                                                 | <0.002                                                      | <0.017                                                | <0.003                                                  | <0.003                                              | <0.005                                              | <0.006                                               |                                                        |                                                |                                      |  |                                               |  |                                   |  |

QUALITY OF GROUND WATER  
WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DE SOTO COUNTY--Continued

345814089584801 C021 CITY OF SOUTHAVEN--Continued

| DATE      | PARATHION, DIS-SOLVED (UG/L)<br>(39542)                | PHORATE WATER FLTRD 0.7 U (UG/L)<br>(82664)          | TER-BUFOS WATER FLTRD 0.7 U (UG/L)<br>(82675)    | PER-METHRIN CIS WAT FLT 0.7 U (UG/L)<br>(82687)       | ATRA-ZINE, WATER, DISS, REC (UG/L)<br>(39632)            | DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L)<br>(04040)    | CYANA-ZINE, WATER, DISS, REC (UG/L)<br>(04041)       | METRI-BUZIN SENCOR WATER DISSOLV (UG/L)<br>(82630)            | PRO-METON, WATER, DISS, REC (UG/L)<br>(04037)              | SI-MAZINE, WATER, DISS, REC (UG/L)<br>(04035)              | BRO-MACIL, WATER, DISS, REC (UG/L)<br>(04029)          |
|-----------|--------------------------------------------------------|------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------|
| MAY 08... | <0.004                                                 | <0.002                                               | <0.013                                           | <0.005                                                | <0.001                                                   | <0.002                                                   | <0.004                                               | <0.004                                                        | <0.018                                                     | <0.005                                                     | <0.035                                                 |
| DATE      | TER-BACIL FLTRD 0.7 U (UG/L)<br>(82665)                | FEN-URON, WATER, FLTRD, GF 0.7U (UG/L)<br>(49297)    | DIURON, WATER, FLTRD, GF 0.7U (UG/L)<br>(49300)  | FLUO-METURON WATER, FLTRD, GF 0.7U (UG/L)<br>(38811)  | LINURON WATER, FLTRD, GF 0.7U (UG/L)<br>(38478)          | LIN-URON WATER, FLTRD, GF 0.7 U (UG/L)<br>(82666)        | NEB-URON, WATER, FLTRD, GF 0.7U (UG/L)<br>(49294)    | TEBU-THIURON WATER, FLTRD, GF 0.7 U (UG/L)<br>(82670)         | ACIFL-UORFEN WATER, FLTRD, GF 0.7U (UG/L)<br>(49315)       | BENTA-ZON, WATER, FLTRD, GF 0.7U (UG/L)<br>(38711)         | BRO-MOXNYL WATER, FLTRD, GF 0.7U (UG/L)<br>(49311)     |
| MAY 08... | <0.007                                                 | <0.013                                               | <0.020                                           | <0.035                                                | <0.018                                                   | <0.002                                                   | <0.015                                               | <0.010                                                        | <0.035                                                     | <0.014                                                     | <0.035                                                 |
| DATE      | CHLOR-AMBN, WATER, FLTRD, GF 0.7U (UG/L)<br>(49307)    | CLOPYR-ALID, WATER, FLTRD, GF 0.7U (UG/L)<br>(49305) | DICAMBA WATER, FLTRD, GF 0.7U (UG/L)<br>(38442)  | 2,6-DI-ETHYL ANILINE WAT FLT 0.7 U (UG/L)<br>(82660)  | DINOSEB WATER, FLTRD, GF 0.7U (UG/L)<br>(49301)          | DNOC WAT, FLT REC (UG/L)<br>(49299)                      | ESFEN-VAL-ERATE, WAT, FLT GF 0.7U (UG/L)<br>(49298)  | 1-NAPH THOL, WATER, FLTRD, GF 0.7U (UG/L)<br>(49295)          | NORFLUR AZON, WATER, FLTRD, GF 0.7U (UG/L)<br>(49293)      | PIC-LORAM, WATER, FLTRD, GF 0.7U (UG/L)<br>(49291)         | PRO-PARGITE WATER, FLTRD 0.7 U (UG/L)<br>(82685)       |
| MAY 08... | <0.011                                                 | <0.050                                               | <0.035                                           | <0.003                                                | <0.035                                                   | <0.035                                                   | <0.019                                               | <0.007                                                        | <0.024                                                     | <0.050                                                     | <0.013                                                 |
| DATE      | 1,2-DIBROMO ETHANE WATER WHOLE TOTAL (UG/L)<br>(77651) | CHLORO-ETHANE TOTAL (UG/L)<br>(34311)                | 1,1-DI-ETHANE TOTAL (UG/L)<br>(34496)            | 1,2-DI-CHLORO-ETHANE TOTAL (UG/L)<br>(32103)          | 1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L)<br>(34506)          | 1,1,2-TRI-CHLORO-ETHANE TOTAL (UG/L)<br>(34511)          | FREON-113 WATER UNFLTRD REC (UG/L)<br>(77652)        | ETHANE, 1112-TETRA-CHLORO-WAT UNF REC (UG/L)<br>(77562)       | ETHANE, 1,1,2,2-TETRA-CHLORO-WAT UNF REC (UG/L)<br>(34516) | ETHANE, 1,1,2,2-TETRA-CHLORO-WAT UNF REC (UG/L)<br>(34396) | METHYL-BROMIDE TOTAL (UG/L)<br>(34413)                 |
| MAY 08... | <0.100                                                 | <0.100                                               | <0.050                                           | <0.050                                                | <0.050                                                   | <0.100                                                   | <0.050                                               | <0.050                                                        | <0.100                                                     | <0.050                                                     | <0.100                                                 |
| DATE      | METHANE BROMO-CHLORO-WAT UNFLTRD REC (UG/L)<br>(77297) | DI-CHLORO-BROMO-METHANE TOTAL (UG/L)<br>(32101)      | DI-BROMO-METHANE WHOLE RECOVER (UG/L)<br>(30217) | BROMO-FORM TOTAL (UG/L)<br>(32104)                    | METHYL-CHLO-RIDE TOTAL (UG/L)<br>(34418)                 | CHLORO-DI-BROMO-METHANE TOTAL (UG/L)<br>(32105)          | METHYL-ENE-CHLO-RIDE TOTAL (UG/L)<br>(34423)         | DI-CHLORO-FLUORO-METHANE TOTAL (UG/L)<br>(34668)              | CHLORO-FORM TOTAL (UG/L)<br>(32106)                        | TRI-CHLORO-METHANE TOTAL (UG/L)<br>(34488)                 | CARBON-TETRA-CHLO-RIDE TOTAL (UG/L)<br>(32102)         |
| MAY 08... | <0.100                                                 | E0.020                                               | <0.100                                           | <0.200                                                | <0.200                                                   | <0.100                                                   | <0.100                                               | <0.200                                                        | 0.560                                                      | <0.100                                                     | <0.050                                                 |
| DATE      | METHYL IODIDE WATER UNFLTRD RECOVER (UG/L)<br>(77424)  | DIBROMO-PROPANE WHOLE TOT. REC (UG/L)<br>(82625)     | 1,2-DI-CHLORO-PROPANE TOTAL (UG/L)<br>(34541)    | 1,3-DI-CHLORO-PROPANE WAT. WH TOTAL (UG/L)<br>(77173) | 2,2-DI-CHLORO-PROPANE WAT, WH TOTAL (UG/L)<br>(77170)    | 123-TRI-CHLORO-PROPANE WHOLE TOTAL (UG/L)<br>(77443)     | HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L)<br>(39702)       | 2BUTENE TRANS-1 4-DI-CHLORO UNFLTRD RECOVER (UG/L)<br>(73547) | BROMO-ETHENE WATER UNFLTRD RECOVER (UG/L)<br>(50002)       | VINYL-CHLO-RIDE TOTAL (UG/L)<br>(39175)                    | 1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L)<br>(34501)        |
| MAY 08... | <0.050                                                 | <0.500                                               | <0.050                                           | <0.050                                                | <0.050                                                   | <0.200                                                   | <0.200                                               | <5.00                                                         | <0.100                                                     | <0.100                                                     | <0.100                                                 |
| DATE      | CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L)<br>(77093) | 1,2-TRANSDI-CHLORO-ETHENE TOTAL (UG/L)<br>(34546)    | TRI-CHLORO-ETHYL-ENE TOTAL (UG/L)<br>(39180)     | TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L)<br>(34475)        | PROPENE 3-CHLORO-WATER UNFLTRD RECOVER (UG/L)<br>(78109) | 1,1-DI-CHLORO-PRO-PENE, WAT, WH TOTAL (UG/L)<br>(77168)  | CIS 1,3-DI-CHLORO-PROPENE TOTAL (UG/L)<br>(34704)    | TRANS 1,3-DI-CHLORO-PROPENE TOTAL (UG/L)<br>(34699)           | BENZENE N-BUTYL WATER UNFLTRD REC (UG/L)<br>(77342)        | BENZENE SEC BUTYL-WATER UNFLTRD REC (UG/L)<br>(77350)      | BENZENE TERT-BUTYL-WATER UNFLTRD REC (UG/L)<br>(77353) |
| MAY 08... | <0.050                                                 | <0.050                                               | <0.050                                           | <0.050                                                | <0.100                                                   | <0.050                                                   | <0.100                                               | <0.100                                                        | <0.050                                                     | <0.050                                                     | <0.050                                                 |
| DATE      | ETHYL-BENZENE TOTAL (UG/L)<br>(34371)                  | TOLUENE TOTAL (UG/L)<br>(34010)                      | O-XYLENE WHOLE UNFLTRD REC (UG/L)<br>(77135)     | META/123-XYLENE WATER UNFLTRD REC (UG/L)<br>(85795)   | BENZENE 123-TRI-METHYL UNFLTRD RECOVER (UG/L)<br>(77221) | BENZENE 124-TRI-METHYL UNFLTRD RECOVER (UG/L)<br>(77222) | BENZENE 135-TRI-METHYL UNFLTRD REC (UG/L)<br>(77226) | PREH-NITENE WATER UNFLTRD RECOVER (UG/L)<br>(49999)           | ISO-DURENE WATER UNFLTRD RECOVER (UG/L)<br>(50000)         | ISO-PROPYL-BENZENE WHOLE UNFLTRD REC (UG/L)<br>(77223)     | BENZENE N-PROPY WATER UNFLTRD REC (UG/L)<br>(77224)    |
| MAY 08... | <0.050                                                 | <0.050                                               | <0.050                                           | E0.070                                                | <0.050                                                   | E0.010                                                   | <0.050                                               | <0.050                                                        | <0.050                                                     | <0.050                                                     | <0.050                                                 |



## WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## DE SOTO COUNTY--Continued

345814089584801 C021 CITY OF SOUTHAVEN--Continued

| DATE         | TOLUENE<br>O-ETHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77220)   | P-ISO-<br>PROPYL-<br>TOLUENE<br>WATER<br>WHOLE<br>REC<br>(UG/L)<br>(77356)    | BENZENE<br>TOTAL<br>(UG/L)<br>(34030)                                    | NAPHTH-<br>ALENE<br>TOTAL<br>(UG/L)<br>(34696)                                  | STYRENE<br>TOTAL<br>(UG/L)<br>(77128)                                       | ACETONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(81552)                         | ETHER<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81576)             | ETHER<br>TERT-<br>BUTYL-<br>ETHYL-<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50004) | METHYL<br>TERT-<br>BUTYL<br>ETHER<br>WAT UNF<br>REC<br>(UG/L)<br>(78032)      | ETHER<br>TERT-<br>PENTYL<br>ETHER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50005)  | DI-ISO-<br>PROPYL-<br>ETHER,<br>WATER,<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81577) |
|--------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|              | MAY<br>08...                                                             | <0.050                                                                        | <0.050                                                                   | <0.050                                                                          | <0.200                                                                      | <0.050                                                                          | <5.00                                                                           | <0.100                                                                        | <0.100                                                                        | <0.100                                                                        | <0.100                                                                            |
|              | DATE                                                                     | FURAN<br>TETRA-<br>HYDRO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81607) | 2-HEXA-<br>NONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77103)          | METHYL-<br>ISO-<br>BUTYL-<br>KETONE<br>WAT. WH.<br>TOTAL<br>(UG/L)<br>(78133)   | METHYL-<br>ETHYL-<br>KETONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(81595) | BROMO-<br>BENZENE<br>WATER,<br>WHOLE,<br>TOTAL<br>(UG/L)<br>(81555)             | CHLORO-<br>BENZENE<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(34301)                   | BENZENE<br>O-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34536)   | BENZENE<br>1,3-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34566) | BENZENE<br>1,4-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34571) | 1,2,3-<br>TRI-<br>CHLORO-<br>BENZENE<br>WAT, WH<br>REC<br>(UG/L)<br>(77613)       |
| MAY<br>08... | <5.00                                                                    | <5.00                                                                         | <5.00                                                                    | <5.00                                                                           | <0.050                                                                      | <0.050                                                                          | <0.050                                                                          | <0.050                                                                        | <0.050                                                                        | <0.200                                                                        | <0.200                                                                            |
| DATE         | O-<br>CHLORO-<br>TOLUENE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77275) | TOLUENE<br>P-CHLOR<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77277)            | CARBON<br>DI.<br>SULFIDE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77041) | METHAC-<br>RYLATE<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(73570) | METHYL<br>ACRY-<br>LATE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(49991) | METH-<br>ACRYLO-<br>NITRITE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81593) | METHAC-<br>RYLATE<br>METHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81597) | ACRO-<br>LEIN<br>WATER<br>TOTAL<br>(UG/L)<br>(34210)                          | ACRYLO-<br>NITRILE<br>TOTAL<br>(UG/L)<br>(34215)                              | ACETATE<br>VINYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77057)          |                                                                                   |
| MAY<br>08... | <0.050                                                                   | <0.050                                                                        | <0.050                                                                   | <1.00                                                                           | <2.00                                                                       | <2.00                                                                           | <1.00                                                                           | <2.00                                                                         | <2.00                                                                         | <5.00                                                                         |                                                                                   |



QUALITY OF GROUND WATER  
WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

HANCOCK COUNTY

301959089212301 K473 CASINO MAGIC

| DATE         | TIME | GEO-<br>LOGIC<br>UNIT                                                | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)      | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET)                                       | PUMP<br>OR FLOW<br>PERIOD<br>PRIOR<br>TO SAM-<br>PLING<br>(MIN)          | SAMPLE<br>SOURCE<br>(72005)                                              | SAMPLER<br>TYPE<br>(CODE)                                                | SAM-<br>PLING<br>METHOD,<br>CODES<br>(82398)                             | WELL<br>PURGING<br>CONDI-<br>TION<br>(CODE)              | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)               |
|--------------|------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------|
| FEB<br>14... | 0945 | 122HBRG                                                              | 1028                                                         | 1810                                                                          | 30                                                                       | 1                                                                        | 4100                                                                     | 4100                                                                     | 100                                                      | 866                                                             |
| DATE         |      | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080)      | 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)          | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA)<br>(00930)                  | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K)<br>(00935)           | ALKA-<br>LINITY<br>LAB<br>(MG/L<br>AS<br>CACO3)<br>(90410)               | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4)<br>(00945) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940)  |
| FEB<br>14... |      | 8.6                                                                  | 40                                                           | 3.0                                                                           | 0.30                                                                     | 200                                                                      | 1.2                                                                      | 278                                                                      | <0.20                                                    | 120                                                             |
| DATE         |      | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F)<br>(00950)        | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SIO2)<br>(00955) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671) | 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) |
| FEB<br>14... |      | 0.50                                                                 | 19                                                           | 528                                                                           | <0.010                                                                   | <0.020                                                                   | 0.950                                                                    | 0.420                                                                    | 10                                                       | 28                                                              |

## QUALITY OF GROUND WATER

277

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

HARRISON COUNTY

302358088531201 M564 BARQS BOTTLING COMPANY

| DATE      | TIME                              | GEO-LOGIC UNIT                    | AGENCY COL-LECTING SAMPLE (CODE NUMBER)              | DEPTH OF WELL, TOTAL (FEET)               | SAMPLE SOURCE (72005)                     | SAMPLER TYPE (CODE)                       | SAM-PLING METHOD, CODES (82398)           | WELL PURGING CONDI-TION (CODE)   | SPE-CIFIC CON-DUCT-ANCE (US/CM)     | PH WATER WHOLE FIELD (STAND-ARD UNITS) |
|-----------|-----------------------------------|-----------------------------------|------------------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------|-------------------------------------|----------------------------------------|
| FEB 28... | 1300                              | 122PCGL                           | 1028                                                 | 1195                                      | 4                                         | 4100                                      | 4100                                      | 110                              | 1430                                | 8.5                                    |
| DATE      | TEMPER-ATURE WATER (DEG C)        | COLOR (PLAT-INUM-COBALT UNITS)    | CALCIUM DIS-SOLVED (MG/L AS CA)                      | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)       | SODIUM, DIS-SOLVED (MG/L AS NA)           | POTAS-SIUM, DIS-SOLVED (MG/L AS K)        | ALKA-LINITY LAB (MG/L AS CAC03)           | SULFATE DIS-SOLVED (MG/L AS SO4) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL)  |                                        |
|           | (00010)                           | (00080)                           | (00915)                                              | (00925)                                   | (00930)                                   | (00935)                                   | (90410)                                   | (00945)                          | (00940)                             |                                        |
| FEB 28... | 29.0                              | 20                                | 8.1                                                  | 0.90                                      | 470                                       | 2.5                                       | 276                                       | <0.20                            | 550                                 |                                        |
| DATE      | FLUO-RIDE, DIS-SOLVED (MG/L AS F) | SILICA, DIS-SOLVED (MG/L AS SIO2) | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L AS N) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) | PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) | IRON, DIS-SOLVED (UG/L AS FE)    | MANGA-NESE, DIS-SOLVED (UG/L AS MN) |                                        |
|           | (00950)                           | (00955)                           | (70300)                                              | (00613)                                   | (00631)                                   | (00608)                                   | (00671)                                   | (01046)                          | (01056)                             |                                        |
| FEB 28... | 0.60                              | 17                                | 1200                                                 | 0.010                                     | <0.020                                    | 1.90                                      | 0.170                                     | 49                               | 53                                  |                                        |

## QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## HUMPHREYS COUNTY

331111090283701 C015 CITY OF BELZONI

|           |                                                  |                                                   |                                                   | PUMP                                            |                                                        |                                                    |                                                       |                                                     |                                                             |                                                        |                                               |
|-----------|--------------------------------------------------|---------------------------------------------------|---------------------------------------------------|-------------------------------------------------|--------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------|
| DATE      | TIME                                             | GEO-LOGIC UNIT                                    | DEPTH OF WELL, TOTAL (FEET) (72008)               | 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)                     | WELL PURGING CONDI-TION (CODE) (84143)                      | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)                |                                               |
| APR 10... | 1500                                             | 124SPRT                                           | 791.00                                            | 60                                              | 47                                                     | 4040                                               | 0.10                                                  | 4040                                                | 160                                                         | 289                                                    |                                               |
|           | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)   | TEMPER-ATURE WATER (DEG C) (00010)                | OXYGEN, DIS-SOLVED (MG/L) (00300)                 | CALCIUM DIS-SOLVED (MG/L AS CA) (00915)         | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)            | SODIUM, DIS-SOLVED (MG/L AS NA) (00930)            | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)            | BICAR-BONATE WATER DIS-IT FIELD HCO3 (00453)        | ALKA-LINITY WAT DIS TOT IT FIELD CACO3 (39086)              | SULFATE DIS-SOLVED (MG/L AS SO4) (00945)               |                                               |
| APR 10... | 7.6                                              | 23.0                                              | 0.1                                               | 0.93                                            | 0.14                                                   | 67                                                 | 1.4                                                   | 153                                                 | 125                                                         | 8.5                                                    |                                               |
|           | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)       | FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)         | BROMIDE DIS-SOLVED (MG/L AS BR) (71870)           | SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)       | SOLIDS, RESIDUE AT 180 DEG C DIS-SOLVED (MG/L) (70300) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)  | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)     | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)   | NITRO-GEN,AM-MONIA + ORGANIC DIS-SOLVED (MG/L AS N) (00623) |                                                        |                                               |
| APR 10... | 1.6                                              | 0.10                                              | 0.020                                             | 37                                              | 198                                                    | <0.010                                             | <0.050                                                | 0.250                                               | 0.30                                                        |                                                        |                                               |
|           | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)       | PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671) | IRON, DIS-SOLVED (UG/L AS FE) (01046)             | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)     | H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)         | O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)   | RADON 222 TOTAL (PCI/L) (82303)                       | RN-222 2 SIGMA WATER, WHOLE, SOLVED (PCI/L) (76002) | CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)              |                                                        |                                               |
| APR 10... | 0.100                                            | 0.100                                             | 78                                                | 5.0                                             | -27.8                                                  | -5.14                                              | 91                                                    | 16                                                  | 0.30                                                        |                                                        |                                               |
|           | ACETO-CHLOR, WATER, FLTRD, REC (UG/L) (49260)    | ALA-CHLOR, WATER, DISS, REC (UG/L) (46342)        | METO-LACHLOR, WATER, DISSOLV (UG/L) (39415)       | NAPROP-AMIDE WATER, FLTRD, 0.7 U (UG/L) (82684) | PRON-AMIDE WATER, FLTRD, 0.7 U (UG/L) (82676)          | PROP-CHLOR, WATER, DISS, REC (UG/L) (04024)        | PRO-PANIL WATER, FLTRD, 0.7 U (UG/L) (82679)          | ALDI-CARB, WATER, FLTRD, GF 0.7U (UG/L) (49312)     | ALDI-CARB, SULFONE, WAT, FLT, GF 0.7U (UG/L) (49313)        | ALDICA-RB SUL-FOXIDE, WAT, FLT, GF 0.7U (UG/L) (49314) | BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)    |
| APR 10... | <0.002                                           | <0.002                                            | <0.002                                            | <0.003                                          | <0.003                                                 | <0.007                                             | <0.004                                                | <0.016                                              | <0.016                                                      | <0.021                                                 | <0.002                                        |
|           | CAR-BARYL, WATER, FLTRD, GF 0.7U (UG/L) (49310)  | CAR-BARYL, WATER, FLTRD, 0.7 U (UG/L) (82680)     | CARBO-FURAN, WATER, FLTRD, GF 0.7U (UG/L) (49309) | CARBO-FURAN, WATER, FLTRD, 0.7 U (UG/L) (82674) | 3HYDRXY CARBO-FURAN, WAT, FLT, GF 0.7U (UG/L) (49308)  | EPTC WATER, FLTRD, 0.7 U (UG/L) (82668)            | METHIO-CARB, WATER, FLTRD, GF 0.7U (UG/L) (38501)     | METH-OMYL, WATER, FLTRD, GF 0.7U (UG/L) (49296)     | MOL-INATE, WATER, FLTRD, GF 0.7 U (UG/L) (82671)            | OXAMYL, WATER, FLTRD, GF 0.7U (UG/L) (38866)           | PEB-ULATE, WATER, FLTRD, 0.7 U (UG/L) (82669) |
| APR 10... | <0.008                                           | <0.003                                            | <0.028                                            | <0.003                                          | <0.014                                                 | <0.002                                             | <0.026                                                | <0.017                                              | <0.004                                                      | <0.018                                                 | <0.004                                        |
|           | PRO-PHAM, WATER, FLTRD, GF 0.7U (UG/L) (49236)   | PRO-POXUR, WATER, FLTRD, GF 0.7U (UG/L) (38538)   | THIO-BENCARB, WATER, FLTRD, 0.7 U (UG/L) (82681)  | TRIAL-LATE, WATER, FLTRD, 0.7 U (UG/L) (82678)  | 2,4-D, DIS-SOLVED (UG/L) (39732)                       | DICHLOR PROP, WATER, FLTRD, GF 0.7U (UG/L) (49302) | 2,4-DB WATER, FLTRD, GF 0.7U (UG/L) (38746)           | MCPA, WATER, FLTRD, GF 0.7U (UG/L) (38482)          | MCPB, WATER, FLTRD, GF 0.7U (UG/L) (38487)                  | SILVEX, DIS-SOLVED (UG/L) (39762)                      | 2,4,5-T DIS-SOLVED (UG/L) (39742)             |
| APR 10... | <0.035                                           | <0.035                                            | <0.002                                            | <0.001                                          | <0.035                                                 | <0.032                                             | <0.035                                                | <0.050                                              | <0.035                                                      | <0.021                                                 | <0.035                                        |
|           | TRI-CLOPYR, WATER, FLTRD, GF 0.7U (UG/L) (49235) | BEN-FLUR-ALIN, WAT FLD, GF, REC (UG/L) (82673)    | ETHAL-FLUR-ALIN, WAT FLT, GF, REC (UG/L) (82663)  | ORY-ZALIN, WATER, FLTRD, GF 0.7U (UG/L) (49292) | PENDI-METH-ALIN, WAT FLT, GF, REC (UG/L) (82683)       | TRI-FLUR-ALIN, WAT FLT, GF, REC (UG/L) (82661)     | CHLORO-THALO-NIL, WAT, FLT, DIS-SOLVED (UG/L) (34253) | DCPA WATER, FLTRD, GF 0.7 U (UG/L) (49306)          | DACTHAL MONO-ACID, WAT, FLT, GF 0.7U (UG/L) (82682)         | P, P' DDE DISSOLV (UG/L) (49304)                       | (34653)                                       |
| APR 10... | <0.050                                           | <0.002                                            | <0.004                                            | <0.019                                          | <0.004                                                 | <0.002                                             | <0.002                                                | <0.035                                              | <0.002                                                      | <0.017                                                 | <0.006                                        |

## WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## HUMPHREYS COUNTY--Continued

331111090283701 C015 CITY OF BELZONI--Continued

| DATE         | DICHLOR-<br>BENIL,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49303) | DI-<br>ELDRIN<br>DIS-<br>SOLVED<br>(UG/L)<br>(39381)                            | LINDANE<br>DIS-<br>SOLVED<br>(UG/L)<br>(39341)                             | METHYL<br>AZIN-<br>PHOS<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82686)          | CHLOR-<br>PYRIFOS<br>DIS-<br>SOLVED<br>(UG/L)<br>(38933)                     | DI-<br>AZINON,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39572)                          | DISUL-<br>FOTON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82677)        | ETHO-<br>PROP<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82672)             | FONOFOS<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(04095)                                 | MALA-<br>THION,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39532)                         | METHYL<br>PARA-<br>THION<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82667) |
|--------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| APR<br>10... | <0.020                                                                        | <0.001                                                                          | <0.004                                                                     | <0.001                                                                               | <0.004                                                                       | <0.002                                                                         | <0.017                                                                            | <0.003                                                                               | <0.003                                                                               | <0.005                                                                         | <0.006                                                                       |
| DATE         | PARA-<br>THION,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39542)                        | PHORATE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82664)              | TER-<br>BUFOS<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82675)   | PER-<br>METHRIN<br>CIS<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82687)           | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632)                | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040)       | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)                    | METRI-<br>BUZIN<br>SENCOR<br>WATER<br>DISS,<br>DISSOLV<br>REC<br>(UG/L)<br>(82630)   | PRO-<br>METON,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04037)                        | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035)                  | BRO-<br>MACIL,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04029)                |
| APR<br>10... | <0.004                                                                        | <0.002                                                                          | <0.013                                                                     | <0.005                                                                               | <0.001                                                                       | <0.002                                                                         | <0.004                                                                            | <0.004                                                                               | <0.018                                                                               | <0.005                                                                         | <0.035                                                                       |
| DATE         | TER-<br>BACIL<br>WATER,<br>FLTRD,<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82665)    | FEN-<br>URON,<br>WATER,<br>FLTRD,<br>0.7 U<br>REC<br>(UG/L)<br>(49297)          | DIURON,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49300)         | FLUO-<br>METURON<br>WATER,<br>FLTRD,<br>0.7 U<br>GF 0.7U<br>REC<br>(UG/L)<br>(38811) | LINURON<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(38478)           | LIN-<br>URON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82666)        | NEB-<br>URON,<br>WATER,<br>FLTRD,<br>0.7 U<br>GF 0.7U<br>REC<br>(UG/L)<br>(49294) | TEBU-<br>THIURON<br>WATER,<br>FLTRD,<br>0.7 U<br>GF 0.7U<br>REC<br>(UG/L)<br>(82670) | ACIFL-<br>UORFEN<br>WATER,<br>FLTRD,<br>0.7 U<br>GF 0.7U<br>REC<br>(UG/L)<br>(49315) | BENTA-<br>ZON,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(38711)      | BRO-<br>MOXYNIL<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49311)   |
| APR<br>10... | <0.007                                                                        | <0.013                                                                          | <0.020                                                                     | <0.035                                                                               | <0.018                                                                       | <0.002                                                                         | <0.015                                                                            | <0.010                                                                               | <0.035                                                                               | <0.014                                                                         | <0.035                                                                       |
| DATE         | CHLOR-<br>AMBN,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49307)    | CLOPYR-<br>ALID,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49305)     | DICAMBA<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(38442)         | 2,6-DI-<br>ETHYL<br>ANILINE<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82660)      | DINOSB<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49301)            | DNOC<br>WAT, FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49299)                        | ESFEN-<br>VAL-<br>ERATE,<br>WAT, FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49298)       | 1-NAPH-<br>THOL,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49295)          | NORFLUR<br>AZON,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49293)          | PIC-<br>LORAM,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49291)      | PRO-<br>PARGITE<br>WATER,<br>FLTRD,<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82685) |
| APR<br>10... | <0.011                                                                        | <0.050                                                                          | <0.035                                                                     | <0.003                                                                               | <0.035                                                                       | <0.035                                                                         | <0.019                                                                            | <0.007                                                                               | <0.024                                                                               | <0.050                                                                         | <0.013                                                                       |
| DATE         | 1,2-<br>DIBROMO<br>ETHANE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77651)     | CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34311)                                 | 1,1-DI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34496)                 | 1,2-DI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(32103)                           | 1,1,1-<br>TRI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34506)            | 1,1,2-<br>TRI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34511)              | FREON-<br>113<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77652)                     | ETHANE,<br>1112-<br>TETRA-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(77562)         | ETHANE,<br>1,1,2,2<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(34516)                 | ETHANE<br>HEXA-<br>CHLORO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(34396) | METHYL-<br>BROMIDE<br>TOTAL<br>(UG/L)<br>(34413)                             |
| APR<br>10... | <0.100                                                                        | <0.100                                                                          | <0.050                                                                     | <0.050                                                                               | <0.050                                                                       | <0.100                                                                         | <0.050                                                                            | <0.050                                                                               | <0.100                                                                               | <0.050                                                                         | <0.100                                                                       |
| DATE         | METHANE<br>BROMO<br>CHLORO-<br>WAT<br>UNFLTRD<br>REC<br>(UG/L)<br>(77297)     | DI-<br>CHLORO-<br>BROMO-<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(32101)        | DI-<br>BROMO-<br>METHANE<br>WATER<br>WHOLE<br>RECOVER<br>(UG/L)<br>(30217) | BROMO-<br>FORM<br>TOTAL<br>(UG/L)<br>(32104)                                         | METHYL-<br>CHLORO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(34418)                     | CHLORO-<br>DI-<br>BROMO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(32105)              | METHYL-<br>ENE<br>CHLORO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(34423)                   | DI-<br>CHLORO-<br>DI-<br>FLUORO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(34668)            | TRI-<br>CHLORO-<br>FLUORO-<br>FORM<br>TOTAL<br>(UG/L)<br>(32106)                     | CARBON-<br>TETRA-<br>CHLORO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(34488)             | CARBON-<br>TETRA-<br>CHLORO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(32102)           |
| APR<br>10... | <0.100                                                                        | <0.100                                                                          | <0.100                                                                     | <0.200                                                                               | V0.020                                                                       | <0.100                                                                         | <0.100                                                                            | <0.200                                                                               | <0.050                                                                               | <0.100                                                                         | <0.050                                                                       |
| DATE         | METHYL<br>IODIDE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77424)          | DIBROMO<br>CHLORO-<br>PROPANE<br>WATER<br>WHOLE<br>TOT REC<br>(UG/L)<br>(82625) | 1,2-DI-<br>CHLORO-<br>PROPANE<br>TOTAL<br>(UG/L)<br>(34541)                | 1,3-DI-<br>CHLORO-<br>PROPANE<br>WAT. WH<br>TOTAL<br>(UG/L)<br>(77173)               | 2,2-DI-<br>CHLORO-<br>PRO-<br>PANE<br>WAT, WH<br>TOTAL<br>(UG/L)<br>(77170)  | 123-TRI-<br>CHLORO-<br>PROPANE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77443) | HEXA-<br>CHLORO-<br>BUT-<br>ADIENE<br>TOTAL<br>(UG/L)<br>(39702)                  | 2BUTENE<br>TRANS-1<br>4-DI-<br>CHLORO-<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(73547)    | BROMO-<br>ETHENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50002)                 | VINYL<br>CHLORO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(39175)                         | 1,1-DI-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(34501)            |
| APR<br>10... | <0.050                                                                        | <0.500                                                                          | <0.050                                                                     | <0.050                                                                               | <0.050                                                                       | <0.200                                                                         | <0.200                                                                            | <5.00                                                                                | <0.100                                                                               | <0.100                                                                         | <0.100                                                                       |
| DATE         | CIS-1,2<br>-DI-<br>CHLORO-<br>ETHENE<br>WATER<br>TOTAL<br>(UG/L)<br>(77093)   | 1,2-<br>TRANS-<br>CHLORO-<br>ETHENE<br>TOTAL<br>(UG/L)<br>(34546)               | TRI-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(39180)             | TETRA-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(34475)                     | PROPENE<br>3-<br>CHLORO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(78109) | 1,1-DI-<br>CHLORO-<br>PRO-<br>PENE,<br>WAT, WH<br>TOTAL<br>(UG/L)<br>(77168)   | CIS<br>1,3-DI-<br>CHLORO-<br>PROPENE<br>TOTAL<br>(UG/L)<br>(34704)                | TRANS-<br>1,3-DI-<br>CHLORO-<br>PROPENE<br>TOTAL<br>(UG/L)<br>(34699)                | BENZENE<br>N-BUTYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77342)                   | BENZENE<br>SEC<br>BUTYL-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77350)       | BENZENE<br>TERT-<br>BUTYL-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77353)   |
| APR<br>10... | <0.050                                                                        | <0.050                                                                          | <0.050                                                                     | <0.050                                                                               | <0.100                                                                       | <0.050                                                                         | <0.100                                                                            | <0.100                                                                               | <0.050                                                                               | <0.050                                                                         | <0.050                                                                       |

## QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

HUMPHREYS COUNTY--Continued

331111090283701 C015 CITY OF BELZONI--Continued

| DATE | ETHYL-<br>BENZENE<br>TOTAL<br>(UG/L)<br>(34371)                               | TOLUENE<br>TOTAL<br>(UG/L)<br>(34010)                                      | O-<br>XYLENE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77135)                  | META/<br>PARA-<br>XYLENE<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(85795)        | BENZENE<br>123-TRI<br>METHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77221) | BENZENE<br>124-TRI<br>METHYL<br>UNFLT<br>RECOVER<br>(UG/L)<br>(77222)           | BENZENE<br>135-TRI<br>METHYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77226)    | PREH-<br>NITENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(49999)           | ISO-<br>DURENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50000)            | ISO-<br>PROPYL-<br>BENZENE<br>WATER<br>WHOLE<br>REC<br>(UG/L)<br>(77223)       | BENZENE<br>N-PROPY<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77224)                   |
|------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|      | APR<br>10...                                                                  | <0.050                                                                     | <0.050                                                                        | <0.050                                                                          | <0.050                                                                            | <0.050                                                                          | E0.010                                                                          | <0.050                                                                        | <0.050                                                                        | <0.050                                                                         | <0.050                                                                               |
| DATE | TOLUENE<br>O-ETHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77220)        | P-ISO-<br>PROPYL-<br>TOLUENE<br>WATER<br>WHOLE<br>REC<br>(UG/L)<br>(77356) | BENZENE<br>TOTAL<br>(UG/L)<br>(34030)                                         | NAPHTH-<br>ALENE<br>TOTAL<br>(UG/L)<br>(34696)                                  | STYRENE<br>TOTAL<br>(UG/L)<br>(77128)                                             | ACETONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(81552)                         | ETHER<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81576)             | ETHER<br>TERT-<br>BUTYL<br>ETHYL-<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50004)  | METHYL<br>TERT-<br>BUTYL<br>ETHER<br>WAT UNF<br>REC<br>(UG/L)<br>(78032)      | ETHER<br>TERT-<br>PENTYL<br>METHYL-<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50005) | DI-ISO-<br>PROPYL-<br>ETHER,<br>WATER,<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81577)    |
|      | APR<br>10...                                                                  | <0.050                                                                     | <0.050                                                                        | <0.050                                                                          | <0.200                                                                            | <0.050                                                                          | E0.300                                                                          | <0.100                                                                        | <0.100                                                                        | <0.100                                                                         | <0.100                                                                               |
| DATE | FURAN<br>TETRA-<br>HYDRO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81607) | 2-HEXA-<br>NONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77103)            | METHYL-<br>ISO-<br>BUTYL-<br>KETONE<br>WAT. WH.<br>TOTAL<br>(UG/L)<br>(78133) | METHYL-<br>ETHYL-<br>KETONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(81595)     | BROMO-<br>BENZENE<br>WATER,<br>WHOLE,<br>TOTAL<br>(UG/L)<br>(81555)               | CHLORO-<br>BENZENE<br>TOTAL<br>(UG/L)<br>(34301)                                | BENZENE<br>O-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34536)     | BENZENE<br>1,3-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34566) | BENZENE<br>1,4-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34571) | 1,2,3-<br>TRI-<br>CHLORO<br>BENZENE<br>WAT, WH<br>REC<br>(UG/L)<br>(77613)     | BENZENE<br>1,2,4-<br>TRI-<br>CHLORO-<br>WATER,<br>WH UNF<br>REC<br>(UG/L)<br>(34551) |
|      | APR<br>10...                                                                  | <5.00                                                                      | <5.00                                                                         | <5.00                                                                           | E0.800                                                                            | <0.050                                                                          | <0.050                                                                          | <0.050                                                                        | <0.050                                                                        | <0.200                                                                         | <0.200                                                                               |
| DATE | O-<br>CHLORO-<br>TOLUENE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77275)      | TOLUENE<br>P-CHLOR<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77277)         | CARBON<br>DI,<br>SULFIDE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77041)      | METHAC-<br>RYLATE<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(73570) | METHYL<br>ACRY-<br>LATE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(49991)       | METH-<br>ACRYLO-<br>NITRITE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81593) | METHAC-<br>RYLATE<br>METHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81597) | ACRO-<br>LEIN<br>TOTAL<br>(UG/L)<br>(34210)                                   | ACRYLO-<br>NITRILE<br>TOTAL<br>(UG/L)<br>(34215)                              | ACETATE<br>VINYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77057)           |                                                                                      |
|      | APR<br>10...                                                                  | <0.050                                                                     | <0.050                                                                        | E0.030                                                                          | <1.00                                                                             | <2.00                                                                           | <2.00                                                                           | <1.00                                                                         | <2.00                                                                         | <2.00                                                                          | <5.00                                                                                |

QUALITY OF GROUND WATER

281

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

JACKSON COUNTY

302338088294501 Q530 JOHNNY WHITEHEAD

| DATE      | TIME | GEO-LOGIC UNIT | AGENCY COL-LECTING SAMPLE (CODE NUMBER) | DEPTH OF WELL, TOTAL (FEET)               | FLOW RATE, INSTANTANEOUS (G/M)    | PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)         | SAMPLE SOURCE                             | SAMPLER TYPE (CODE)                       | SAM-PLING CONDI-TION                      | SAM-PLING METHOD, CODES                    | WELL PURGING CONDI-TION (CODE)   |                                     |
|-----------|------|----------------|-----------------------------------------|-------------------------------------------|-----------------------------------|------------------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|--------------------------------------------|----------------------------------|-------------------------------------|
|           |      |                | (00027)                                 | (72008)                                   | (00059)                           | (72004)                                              | (72005)                                   | (84164)                                   | (72006)                                   | (82398)                                    | (84143)                          |                                     |
| AUG 20... | 1215 | 122PCGL        |                                         | 1028                                      | 1030                              | 20                                                   | 30                                        | 26                                        | 4040                                      | 8.00                                       | 4040                             | 110                                 |
| DATE      |      |                | SPE-CIFIC CON-DUCT-ANCE (US/CM)         | PH WATER WHOLE FIELD TEMPER-ATURE (DEG C) | COLOR (PLAT-INUM- COBALT UNITS)   | CALCIUM DIS-SOLVED (MG/L AS CA)                      | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)       | SODIUM, DIS-SOLVED (MG/L AS NA)           | POTAS-SIUM, DIS-SOLVED (MG/L AS K)        | ALKA-LINITY LAB (MG/L AS CAC03)            | SULFATE DIS-SOLVED (MG/L AS SO4) |                                     |
|           |      |                | (00095)                                 | (00400)                                   | (00010)                           | (00080)                                              | (00915)                                   | (00925)                                   | (00930)                                   | (00935)                                    | (90410)                          | (00945)                             |
| AUG 20... | 1920 |                |                                         | 8.0                                       | 28.0                              | 50                                                   | 3.6                                       | 0.80                                      | 470                                       | 3.0                                        | 363                              | <0.20                               |
| DATE      |      |                | CHLO-RIDE, DIS-SOLVED (MG/L AS CL)      | FLUO-RIDE, DIS-SOLVED (MG/L AS F)         | SILICA, DIS-SOLVED (MG/L AS SIO2) | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L AS N) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) | PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P) | IRON, DIS-SOLVED (UG/L AS FE)    | MANGA-NESE, DIS-SOLVED (UG/L AS MN) |
|           |      |                | (00940)                                 | (00950)                                   | (00955)                           | (70300)                                              | (00613)                                   | (00631)                                   | (00608)                                   | (00671)                                    | (01046)                          | (01056)                             |
| AUG 20... | 490  |                |                                         | 1.3                                       | 15                                | 1190                                                 | <0.010                                    | <0.020                                    | 2.20                                      | 0.200                                      | 24                               | 18                                  |



## QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

LEFLORE COUNTY

333030090105101 L252 CITY OF GREENWOOD

| DATE      | TIME   | GEO-LOGIC UNIT                                           | DEPTH OF WELL, TOTAL (FEET)                               | PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)                 | SAMPLE SOURCE                                               | SAMPLER TYPE (CODE)                                         | SAM-PLING CONDI-TION                                    | SAM-PLING METHOD, CODES                                     | WELL PURGING CONDI-TION (CODE)                            | SPE-CIFIC CON-DUCT-ANCE (US/CM)                               | PH WATER WHOLE FIELD (STAND-ARD UNITS)                 | TEMPER-ATURE WATER (DEG C)                                |
|-----------|--------|----------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------|
| APR 16... | 1000   | 124MUWX                                                  | 830.00                                                    | >60                                                          | 1                                                           | 4040                                                        | 0.10                                                    | 4040                                                        | 160                                                       | 320                                                           | 8.4                                                    | 21.5                                                      |
| DATE      |        | OXYGEN, DIS- SOLVED (MG/L) (00300)                       | CALCIUM DIS- SOLVED (MG/L) (00915)                        | MAGNE- SIUM, DIS- SOLVED (MG/L) (00925)                      | SODIUM, DIS- SOLVED (MG/L) (00930)                          | POTAS- SIUM, DIS- SOLVED (MG/L) (00935)                     | BICAR- BONATE WATER DIS- TOT IT FIELD HCO3 (00453)      | ALKA- LINITY WAT DIS- TOT IT FIELD CACO3 (39086)            | SULFATE DIS- SOLVED (MG/L) (00945)                        | CHLO- RIDE, DIS- SOLVED (MG/L) (00940)                        | FLUO- RIDE, DIS- SOLVED (MG/L) (00950)                 | SILICA, DIS- SOLVED (MG/L) (00955)                        |
| APR 16... | <0.1   | 0.43                                                     | 0.12                                                      | 79                                                           | 1.3                                                         | 192                                                         | 157                                                     | 6.3                                                         | 1.9                                                       | 0.20                                                          | 0.030                                                  | 15                                                        |
| DATE      |        | SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300) | NITRO- GEN, NITRITE DIS- SOLVED (MG/L) (00613)            | NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) (00631)               | NITRO- GEN, AM- MONIA DIS- SOLVED (MG/L) (00608)            | NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L) (00623)  | PHOS- PHORUS DIS- SOLVED (MG/L) (00666)                 | PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L) (00671)              | IRON, DIS- SOLVED (MG/L) (01046)                          | MANGA- NESE, DIS- SOLVED (MG/L) (01056)                       | RADON 222 TOTAL (PCI/L) (82303)                        | RN-222 2 SIGMA WATER, TOTAL, (MG/L) (76002)               |
| APR 16... | 190    | <0.010                                                   | 0.090                                                     | 0.440                                                        | 0.50                                                        | 0.320                                                       | 0.310                                                   | 9.0                                                         | <1.0                                                      | 86                                                            | 17                                                     | 0.80                                                      |
| DATE      |        | ACETO- CHLOR, WATER, FLTRD, REC (UG/L) (49260)           | ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)              | METO- LACHLOR, WATER, DISSOLV, GF, REC (UG/L) (39415)        | NAPROP- AMIDE WATER, FLTRD, GF, REC (UG/L) (82684)          | PRON- AMIDE WATER, FLTRD, GF, REC (UG/L) (82676)            | PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)            | PRO- PANIL WATER, FLTRD, GF, REC (UG/L) (82679)             | ALDI- CARB, WATER, FLTRD, GF, REC (UG/L) (49312)          | ALDI- CARB, SULFONE, WAT, FLT, GF, REC (UG/L) (49313)         | ALDICA- RB SUL- FATE, WAT, FLT, GF, REC (UG/L) (49314) | BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)               |
| APR 16... | <0.002 | <0.002                                                   | <0.002                                                    | <0.003                                                       | <0.003                                                      | <0.007                                                      | <0.004                                                  | <0.016                                                      | <0.016                                                    | <0.021                                                        | <0.002                                                 |                                                           |
| DATE      |        | CAR- BARYL, WATER, FLTRD, GF 0.7U, REC (UG/L) (49310)    | CAR- BARYL, WATER, FLTRD, GF 0.7U, GF, REC (UG/L) (82680) | CARBO- FURAN, WATER, FLTRD, GF 0.7U, GF, REC (UG/L) (49309)  | CARBO- FURAN, WATER, FLTRD, GF 0.7U, GF, REC (UG/L) (82674) | 3HYDRXY CARBO- FURAN, WAT, FLT, GF 0.7U, REC (UG/L) (49308) | EPTC WATER, FLTRD, GF 0.7U, GF, REC (UG/L) (82668)      | METHIO- CARB, WATER, FLTRD, GF 0.7U, GF, REC (UG/L) (38501) | METH- OMYL, WATER, FLTRD, GF 0.7U, GF, REC (UG/L) (49296) | MOL- INATE, WATER, FLTRD, GF 0.7U, GF, REC (UG/L) (82671)     | OXAMYL, WATER, FLTRD, GF 0.7U, GF, REC (UG/L) (38866)  | PEB- ULATE, WATER, FLTRD, GF 0.7U, GF, REC (UG/L) (82669) |
| APR 16... | <0.008 | <0.003                                                   | <0.028                                                    | <0.003                                                       | <0.014                                                      | <0.002                                                      | <0.026                                                  | <0.017                                                      | <0.004                                                    | <0.018                                                        | <0.004                                                 |                                                           |
| DATE      |        | PRO- PHAM, WATER, FLTRD, GF 0.7U, REC (UG/L) (49236)     | PRO- FOXUR, WATER, FLTRD, GF 0.7U, GF, REC (UG/L) (38538) | THIO- BENCARB, WATER, FLTRD, GF 0.7U, GF, REC (UG/L) (82681) | TRIAL- LATE WATER, FLTRD, GF 0.7U, GF, REC (UG/L) (82678)   | 2,4-D, DIS- SOLVED (UG/L) (39732)                           | DICHLOR PROP, WATER, FLTRD, GF 0.7U, REC (UG/L) (49302) | 2,4-DB WATER, FLTRD, GF 0.7U, GF, REC (UG/L) (38746)        | MCPA, WATER, FLTRD, GF 0.7U, GF, REC (UG/L) (38482)       | MCPB, WATER, FLTRD, GF 0.7U, GF, REC (UG/L) (38487)           | SILVEX, DIS- SOLVED (UG/L) (39762)                     | 2,4,5-T DIS- SOLVED (UG/L) (39742)                        |
| APR 16... | <0.035 | <0.035                                                   | <0.002                                                    | <0.001                                                       | <0.035                                                      | <0.032                                                      | <0.035                                                  | <0.050                                                      | <0.035                                                    | <0.021                                                        | <0.035                                                 |                                                           |
| DATE      |        | TRI- CLOPYR, WATER, FLTRD, GF 0.7U, REC (UG/L) (49235)   | BEN- FLUR- ALIN, WAT FLD, GF, REC (UG/L) (82673)          | ETHAL- FLUR- ALIN, WAT FLT, GF, REC (UG/L) (82663)           | ORY- ZALIN, WATER, FLTRD, GF 0.7U, GF, REC (UG/L) (49292)   | PENDI- METH- ALIN, WAT FLT, GF, REC (UG/L) (82683)          | TRI- FLUR- ALIN, WAT FLT, GF, REC (UG/L) (82661)        | CHLORO- THALO- NIL, WAT, FLT, GF 0.7U, REC (UG/L) (49306)   | DCPA, WATER, FLTRD, GF 0.7U, GF, REC (UG/L) (82682)       | DACTHAL MONO- ACID, WAT, FLT, GF 0.7U, GF, REC (UG/L) (49304) | P, P' DDE DISSOLV (UG/L) (34653)                       |                                                           |
| APR 16... | <0.050 | <0.002                                                   | <0.004                                                    | <0.019                                                       | <0.004                                                      | <0.002                                                      | <0.002                                                  | <0.035                                                      | <0.002                                                    | <0.017                                                        | <0.006                                                 |                                                           |
| DATE      |        | DICHLO- BENIL, WATER, FLTRD, GF 0.7U, REC (UG/L) (49303) | DI- ELDRIN, DIS- SOLVED (UG/L) (39381)                    | LINDANE, DIS- SOLVED (UG/L) (39341)                          | METHYL AZIN- PHOS, WAT FLT, GF, REC (UG/L) (82686)          | CHLOR- PYRIFOS, DIS- SOLVED (UG/L) (38933)                  | DI- AZINON, DIS- SOLVED (UG/L) (39572)                  | DISUL- FOTON WATER, FLTRD, GF, REC (UG/L) (82677)           | ETHO- PROP WATER, FLTRD, GF, REC (UG/L) (82672)           | FONOFOS, WATER, DISS, REC (UG/L) (04095)                      | MALA- THION, DIS- SOLVED (UG/L) (39532)                | METHYL PARA- THION, WAT FLT, GF, REC (UG/L) (82667)       |
| APR 16... | <0.020 | <0.001                                                   | <0.004                                                    | <0.001                                                       | <0.004                                                      | <0.002                                                      | <0.017                                                  | <0.003                                                      | <0.003                                                    | <0.005                                                        | <0.006                                                 |                                                           |

## WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## LEFLORE COUNTY--Continued

333030090105101 L252 CITY OF GREENWOOD--Continued

| DATE      | PARA-<br>THION,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39542)                      | PHORATE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82664)               | TER-<br>BUFOS<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82675) | PER-<br>METHRIN<br>CIS<br>WAT FLT<br>GF, REC<br>(UG/L)<br>(82687)               | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632)                    | DEETHYL<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040)                  | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)                | METRI-<br>BUZIN<br>SENCOR<br>WATER<br>DISSOLV<br>REC<br>(UG/L)<br>(82630)                           | PRO-<br>METON,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04037)                  | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035)                  | BRO-<br>MACIL,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04029)               |
|-----------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| APR 16... | <0.004                                                                      | <0.002                                                                           | <0.013                                                                   | <0.005                                                                          | <0.001                                                                           | <0.002                                                                           | <0.004                                                                        | <0.004                                                                                              | <0.018                                                                         | <0.005                                                                         | <0.035                                                                      |
| DATE      | TER-<br>BACIL<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82665)    | FEN-<br>URON,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49297)        | DIURON,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49300)      | FLUO-<br>METURON<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(38811)    | LINURON<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(38478)              | LIN-<br>URON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82666)          | NEB-<br>URON,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49294)     | TEBU-<br>THIURON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82670)                         | ACIFL-<br>UORFEN<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49315)   | BENTA-<br>ZON,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(38711)     | BRO-<br>MOXYNIL<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49311) |
| APR 16... | <0.007                                                                      | <0.013                                                                           | <0.020                                                                   | <0.035                                                                          | <0.018                                                                           | <0.002                                                                           | <0.015                                                                        | <0.010                                                                                              | <0.035                                                                         | <0.014                                                                         | <0.035                                                                      |
| DATE      | CHLOR-<br>AMEN,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49307) | CLOPYR-<br>ALID,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49305)     | DICAMBA<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(38442)      | 2,6-DI-<br>ETHYL<br>ANILINE<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82660) | DINOSEB<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49301)              | DNOC<br>WAT, FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49299)                        | ESFEN-<br>VAL-<br>ERATE,<br>WAT, FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49298) | 1-NAPH<br>THOL,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49295)                         | NORFLUR<br>AZON,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49293)   | PIC-<br>LORAM,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49291)     | PRO-<br>PARGITE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82685)  |
| APR 16... | <0.011                                                                      | <0.050                                                                           | <0.035                                                                   | <0.003                                                                          | <0.035                                                                           | <0.035                                                                           | <0.019                                                                        | <0.007                                                                                              | <0.024                                                                         | <0.050                                                                         | <0.013                                                                      |
| DATE      | 1,2-<br>DIBROMO<br>ETHANE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77651)   | CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34311)                                  | 1,1-DI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34496)               | 1,2-DI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(32103)                      | 1,1,1-<br>TRI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34506)                | 1,1,2-<br>TRI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34511)                | FREON-<br>113<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77652)                 | ETHANE,<br>1112-<br>TETRA-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(77562)                        | ETHANE,<br>1,1,2,2<br>TETRA-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(34516) | ETHANE<br>HEXA-<br>CHLORO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(34396) | METHYL-<br>BROMIDE<br>TOTAL<br>(UG/L)<br>(34413)                            |
| APR 16... | <0.100                                                                      | <0.100                                                                           | <0.050                                                                   | <0.050                                                                          | <0.050                                                                           | <0.100                                                                           | <0.050                                                                        | <0.050                                                                                              | <0.100                                                                         | <0.050                                                                         | <0.100                                                                      |
| DATE      | METHANE<br>BROMO-<br>CHLORO-<br>WAT<br>UNFLTRD<br>REC<br>(UG/L)<br>(77297)  | DI-<br>CHLORO-<br>BROMO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(32101)                | DI-<br>BROMO-<br>METHANE<br>WHOLE<br>RECOVER<br>(UG/L)<br>(30217)        | BROMO-<br>FORM<br>TOTAL<br>(UG/L)<br>(32104)                                    | METHYL-<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(34418)                           | CHLORO-<br>DI-<br>BROMO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(32105)                | METHYL-<br>ENE<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(34423)                 | DI-<br>CHLORO-<br>FLUORO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(34668)                                  | CHLORO-<br>FORM<br>TOTAL<br>(UG/L)<br>(32106)                                  | TRI-<br>CHLORO-<br>FLUORO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(34488)            | CARBON-<br>TETRA-<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(32102)            |
| APR 16... | <0.100                                                                      | <0.100                                                                           | <0.100                                                                   | <0.200                                                                          | <0.200                                                                           | <0.100                                                                           | <0.100                                                                        | <0.200                                                                                              | <0.050                                                                         | <0.100                                                                         | <0.050                                                                      |
| DATE      | METHYL<br>IODIDE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77424)        | DIBROMO<br>CHLORO-<br>PROPANE<br>WATER<br>WHOLE<br>TOT. REC<br>(UG/L)<br>(82625) | 1,2-DI-<br>CHLORO-<br>PROPANE<br>WAT. WH<br>TOTAL<br>(UG/L)<br>(34541)   | 1,3-DI-<br>CHLORO-<br>PROPANE<br>WAT. WH<br>TOTAL<br>(UG/L)<br>(77173)          | 2,2-DI<br>CHLORO-<br>PRO-<br>PANE<br>WAT. WH<br>TOTAL<br>(UG/L)<br>(77170)       | 123-TRI<br>CHLORO-<br>PROPANE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77443)    | HEXA-<br>BUT-<br>ADIENE<br>TOTAL<br>(UG/L)<br>(39702)                         | 2BUTENE<br>TRANS-1<br>4-DI-<br>CHLORO-<br>BUT-<br>ADIENE<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(73547) | BROMO-<br>ETHENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50002)           | VINYL<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(39175)                           | 1,1-DI-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(34501)           |
| APR 16... | <0.050                                                                      | <0.500                                                                           | <0.050                                                                   | <0.050                                                                          | <0.050                                                                           | <0.200                                                                           | <0.200                                                                        | <5.00                                                                                               | <0.100                                                                         | <0.100                                                                         | <0.100                                                                      |
| DATE      | CIS-1,2<br>DI-<br>CHLORO-<br>ETHENE<br>WATER<br>TOTAL<br>(UG/L)<br>(77093)  | 1,2-<br>TRANSDI<br>CHLORO-<br>ETHENE<br>TOTAL<br>(UG/L)<br>(34546)               | TRI-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(39180)           | TETRA-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(34475)                | PROPENE<br>3-<br>CHLORO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(78109)     | 1,1-DI<br>CHLORO-<br>PRO-<br>PENE,<br>WAT, WH<br>TOTAL<br>(UG/L)<br>(77168)      | CIS<br>1,3-DI-<br>CHLORO-<br>PROPENE<br>TOTAL<br>(UG/L)<br>(34704)            | TRANS-<br>1,3-DI-<br>CHLORO-<br>PROPENE<br>TOTAL<br>(UG/L)<br>(34699)                               | BENZENE<br>N-BUTYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77342)             | BENZENE<br>SEC<br>BUTYL-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77350)       | BENZENE<br>TERT-<br>BUTYL-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77353)  |
| APR 16... | <0.050                                                                      | <0.050                                                                           | <0.050                                                                   | <0.050                                                                          | <0.100                                                                           | <0.050                                                                           | <0.100                                                                        | <0.100                                                                                              | <0.050                                                                         | <0.050                                                                         | <0.050                                                                      |
| DATE      | ETHYL-<br>BENZENE<br>TOTAL<br>(UG/L)<br>(34371)                             | TOLUENE<br>TOTAL<br>(UG/L)<br>(34010)                                            | O-<br>XYLENE<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77135)                      | META/<br>123-TRI<br>XYLENE<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(85795)      | BENZENE<br>124-TRI<br>METHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77221) | BENZENE<br>124-TRI<br>METHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77222) | BENZENE<br>135-TRI<br>METHYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77226)  | PREH-<br>NITENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(49999)                                 | ISO-<br>DURENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50000)             | ISO-<br>PROPYL-<br>BENZENE<br>WHOLE<br>REC<br>(UG/L)<br>(77223)                | BENZENE<br>N-PROPY<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77224)          |
| APR 16... | <0.050                                                                      | <0.050                                                                           | <0.050                                                                   | <0.050                                                                          | <0.050                                                                           | 0.200                                                                            | <0.050                                                                        | <0.050                                                                                              | <0.050                                                                         | <0.050                                                                         | <0.050                                                                      |

## QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

LEFLORE COUNTY--Continued

333030090105101 L252 CITY OF GREENWOOD--Continued

| DATE         | TOLUENE<br>O-ETHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77220)   | P-ISO-<br>PROPYL-<br>TOLUENE<br>WATER<br>WHOLE<br>REC<br>(UG/L)<br>(77356)    | BENZENE<br>TOTAL<br>(UG/L)<br>(34030)                                    | NAPHTH-<br>ALENE<br>TOTAL<br>(UG/L)<br>(34696)                                  | STYRENE<br>TOTAL<br>(UG/L)<br>(77128)                                       | ACETONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(81552)                         | ETHER<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81576)             | ETHER<br>TERT-<br>BUTYL<br>ETHYL-<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50004) | METHYL<br>TERT-<br>BUTYL<br>ETHER<br>WAT UNF<br>REC<br>(UG/L)<br>(78032)      | ETHER<br>TERT-<br>PENTYL<br>METHYL-<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50005) | DI-ISO-<br>PROPYL-<br>ETHER,<br>WATER,<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81577) |
|--------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|              | APR<br>16...                                                             | <0.050                                                                        | <0.050                                                                   | <0.050                                                                          | <0.200                                                                      | <0.050                                                                          | <5.00                                                                           | <0.100                                                                       | <0.100                                                                        | <0.100                                                                         | <0.100                                                                            |
|              | DATE                                                                     | FURAN<br>TETRA-<br>HYDRO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81607) | 2-HEXA-<br>NONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77103)          | METHYL-<br>ISO-<br>BUTYL-<br>KETONE<br>WAT. WH.<br>TOTAL<br>(UG/L)<br>(78133)   | METHYL-<br>ETHYL-<br>KETONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(81595) | BROMO-<br>BENZENE<br>WATER,<br>WHOLE<br>TOTAL<br>(UG/L)<br>(81555)              | CHLORO-<br>BENZENE<br>WATER,<br>WHOLE<br>TOTAL<br>(UG/L)<br>(34301)             | BENZENE<br>O-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34536)  | BENZENE<br>1,3-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34566) | BENZENE<br>1,4-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34571)  | 1,2,3-<br>TRI-<br>CHLORO-<br>BENZENE<br>WAT, WH<br>REC<br>(UG/L)<br>(77613)       |
| APR<br>16... | <5.00                                                                    | <5.00                                                                         | <5.00                                                                    | 1.30                                                                            | <0.050                                                                      | <0.050                                                                          | <0.050                                                                          | <0.050                                                                       | <0.050                                                                        | <0.200                                                                         | <0.200                                                                            |
| DATE         | O-<br>CHLORO-<br>TOLUENE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77275) | TOLUENE<br>P-CHLOR<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77277)            | CARBON<br>DI.<br>SULFIDE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77041) | METHAC-<br>RYLATE<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(73570) | METHYL<br>ACRY-<br>LATE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(49991) | METH-<br>ACRYLO-<br>NITRITE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81593) | METHAC-<br>RYLATE<br>METHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81597) | ACRO-<br>LEIN<br>TOTAL<br>(UG/L)<br>(34210)                                  | ACRYLO-<br>NITRILE<br>TOTAL<br>(UG/L)<br>(34215)                              | ACETATE<br>VINYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77057)           |                                                                                   |
|              | APR<br>16...                                                             | <0.050                                                                        | <0.050                                                                   | <0.050                                                                          | <1.00                                                                       | <2.00                                                                           | <2.00                                                                           | <1.00                                                                        | <2.00                                                                         | <2.00                                                                          | <5.00                                                                             |

QUALITY OF GROUND WATER

285

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

LINCOLN COUNTY

313527090292301 G406 USCE Z 1

| DATE      | TIME | GEO-LOGIC UNIT | AGENCY COL-LECTING SAMPLE (CODE NUMBER) | DEPTH OF WELL, TOTAL (FEET) | FLOW RATE, INSTANTANEOUS (G/M) | PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) | SAMPLE SOURCE | SAMPLER TYPE (CODE) |
|-----------|------|----------------|-----------------------------------------|-----------------------------|--------------------------------|----------------------------------------------|---------------|---------------------|
| DEC 07... | 0900 | 121CRNL        | 810                                     | 120.00                      | 2.5                            | 60                                           | 26            | 4040                |

| DATE      | TIME | GEO-LOGIC UNIT | AGENCY COL-LECTING SAMPLE (CODE NUMBER) | DEPTH OF WELL, TOTAL (FEET) | FLOW RATE, INSTANTANEOUS (G/M) | PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) | SAMPLE SOURCE | SAMPLER TYPE (CODE) |
|-----------|------|----------------|-----------------------------------------|-----------------------------|--------------------------------|----------------------------------------------|---------------|---------------------|
| DEC 07... | 0900 | 121CRNL        | 810                                     | 120.00                      | 2.5                            | 60                                           | 26            | 4040                |

| DATE      | TIME | GEO-LOGIC UNIT | AGENCY COL-LECTING SAMPLE (CODE NUMBER) | DEPTH OF WELL, TOTAL (FEET) | FLOW RATE, INSTANTANEOUS (G/M) | PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) | SAMPLE SOURCE | SAMPLER TYPE (CODE) |
|-----------|------|----------------|-----------------------------------------|-----------------------------|--------------------------------|----------------------------------------------|---------------|---------------------|
| DEC 07... | 0900 | 121CRNL        | 810                                     | 120.00                      | 2.5                            | 60                                           | 26            | 4040                |

313509090292701 G407 USCE Z 2

| DATE      | TIME | GEO-LOGIC UNIT | AGENCY COL-LECTING SAMPLE (CODE NUMBER) | DEPTH OF WELL, TOTAL (FEET) | FLOW RATE, INSTANTANEOUS (G/M) | PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) | SAMPLE SOURCE | SAMPLER TYPE (CODE) |
|-----------|------|----------------|-----------------------------------------|-----------------------------|--------------------------------|----------------------------------------------|---------------|---------------------|
| DEC 06... | 1700 | 121CRNL        | 810                                     | 84.00                       | 0.1                            | 180                                          | 39            | 4040                |

| DATE      | TIME | GEO-LOGIC UNIT | AGENCY COL-LECTING SAMPLE (CODE NUMBER) | DEPTH OF WELL, TOTAL (FEET) | FLOW RATE, INSTANTANEOUS (G/M) | PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) | SAMPLE SOURCE | SAMPLER TYPE (CODE) |
|-----------|------|----------------|-----------------------------------------|-----------------------------|--------------------------------|----------------------------------------------|---------------|---------------------|
| DEC 06... | 1700 | 121CRNL        | 810                                     | 84.00                       | 0.1                            | 180                                          | 39            | 4040                |

| DATE      | TIME | GEO-LOGIC UNIT | AGENCY COL-LECTING SAMPLE (CODE NUMBER) | DEPTH OF WELL, TOTAL (FEET) | FLOW RATE, INSTANTANEOUS (G/M) | PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) | SAMPLE SOURCE | SAMPLER TYPE (CODE) |
|-----------|------|----------------|-----------------------------------------|-----------------------------|--------------------------------|----------------------------------------------|---------------|---------------------|
| DEC 06... | 1700 | 121CRNL        | 810                                     | 84.00                       | 0.1                            | 180                                          | 39            | 4040                |

313453090302401 G408 USCE Z 3

| DATE      | TIME | GEO-LOGIC UNIT | AGENCY COL-LECTING SAMPLE (CODE NUMBER) | DEPTH OF WELL, TOTAL (FEET) | FLOW RATE, INSTANTANEOUS (G/M) | PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) | SAMPLE SOURCE | SAMPLER TYPE (CODE) |
|-----------|------|----------------|-----------------------------------------|-----------------------------|--------------------------------|----------------------------------------------|---------------|---------------------|
| DEC 07... | 2000 | 121CRNL        | 810                                     | 112.00                      | 2.5                            | 60                                           | 26            | 4040                |

| DATE      | TIME | GEO-LOGIC UNIT | AGENCY COL-LECTING SAMPLE (CODE NUMBER) | DEPTH OF WELL, TOTAL (FEET) | FLOW RATE, INSTANTANEOUS (G/M) | PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) | SAMPLE SOURCE | SAMPLER TYPE (CODE) |
|-----------|------|----------------|-----------------------------------------|-----------------------------|--------------------------------|----------------------------------------------|---------------|---------------------|
| DEC 07... | 2000 | 121CRNL        | 810                                     | 112.00                      | 2.5                            | 60                                           | 26            | 4040                |

| DATE      | TIME | GEO-LOGIC UNIT | AGENCY COL-LECTING SAMPLE (CODE NUMBER) | DEPTH OF WELL, TOTAL (FEET) | FLOW RATE, INSTANTANEOUS (G/M) | PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) | SAMPLE SOURCE | SAMPLER TYPE (CODE) |
|-----------|------|----------------|-----------------------------------------|-----------------------------|--------------------------------|----------------------------------------------|---------------|---------------------|
| DEC 07... | 2000 | 121CRNL        | 810                                     | 112.00                      | 2.5                            | 60                                           | 26            | 4040                |

## QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

LINCOLN COUNTY--Continued

313531090311901 G410 USCE Z 5

| DATE         | TIME                                       | GEO-<br>LOGIC<br>UNIT                        | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET)<br>(72008)           | FLOW<br>RATE,<br>INSTAN-<br>TANEOUS<br>(G/M)<br>(00059)              | 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)                           |
|--------------|--------------------------------------------|----------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------|
| DEC<br>07... | 1500                                       | 121CRNL                                      | 810                                                                | 88.00                                                        | 2.5                                                                  | 60                                                                         | 26                                                      | 4040                                                           |
| DATE         | SAM-<br>PLING<br>CONDI-<br>TION<br>(72006) | SAM-<br>PLING<br>METHOD,<br>CODES<br>(82398) | WELL<br>PURGING<br>CONDI-<br>TION<br>(CODE)<br>(84143)             | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010)                            | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA)<br>(00930) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) |
| DEC<br>07... | 8.00                                       | 4040                                         | 160                                                                | 985                                                          | 5.8                                                                  | 18.5                                                                       | 170                                                     | 280                                                            |

313533090304501 G411 USCE Z 7

| DATE         | TIME                                       | GEO-<br>LOGIC<br>UNIT                        | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET)<br>(72008)           | FLOW<br>RATE,<br>INSTAN-<br>TANEOUS<br>(G/M)<br>(00059)              | 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)                           |
|--------------|--------------------------------------------|----------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------|
| DEC<br>07... | 1200                                       | 121CRNL                                      | 810                                                                | 100.00                                                       | 2.5                                                                  | 60                                                                         | 26                                                      | 4040                                                           |
| DATE         | SAM-<br>PLING<br>CONDI-<br>TION<br>(72006) | SAM-<br>PLING<br>METHOD,<br>CODES<br>(82398) | WELL<br>PURGING<br>CONDI-<br>TION<br>(CODE)<br>(84143)             | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010)                            | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA)<br>(00930) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) |
| DEC<br>07... | 8.00                                       | 4040                                         | 160                                                                | 87                                                           | 5.8                                                                  | 19.0                                                                       | 8.8                                                     | 15                                                             |

QUALITY OF GROUND WATER

287

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

MARSHALL COUNTY

344614089264701 P078 CITY OF HOLLY SPRINGS

|           |                                                      |                                                     |                                                        | PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)          |                                                          |                                                        |                                                       |                                                        |                                                             | SPE-CIFIC CON-DUCT-ANCE (US/CM)                           |                                                     |
|-----------|------------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------|
| DATE      | TIME                                                 | GEO-LOGIC UNIT                                      | DEPTH OF WELL, TOTAL (FEET) (72008)                    | TO SAM-PLING (MIN) (72004)                            | SAMPLE SOURCE (72005)                                    | SAMPLER TYPE (CODE) (84164)                            | SAM-PLING CONDI-TION (72006)                          | SAM-PLING METHOD, CODES (82398)                        | WELL PURGING CONDI-TION (CODE) (84143)                      | (00095)                                                   |                                                     |
| MAY 08... | 1000                                                 | 124MUWX                                             | 340.00                                                 | >60                                                   | 1                                                        | 4040                                                   | 0.10                                                  | 4040                                                   | 160                                                         | 146                                                       |                                                     |
| DATE      | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)       | TEMPER-ATURE WATER (DEG C) (00010)                  | OXYGEN, DIS-SOLVED (MG/L) (00300)                      | CALCIUM DIS-SOLVED (MG/L) (00915)                     | MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)                    | SODIUM, DIS-SOLVED (MG/L) (00930)                      | POTAS-SIUM, DIS-SOLVED (MG/L) (00935)                 | BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453) | ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CAC03) (39086)    | SULFATE DIS-SOLVED (MG/L) (00945)                         |                                                     |
| MAY 08... | 5.8                                                  | 17.0                                                | 7.4                                                    | 9.4                                                   | 3.4                                                      | 10                                                     | 2.1                                                   | 26                                                     | 21                                                          | 12                                                        |                                                     |
| DATE      | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)           | FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)           | BROMIDE DIS-SOLVED (MG/L AS BR) (71870)                | SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)             | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)  | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)      | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)     | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)      | NITRO-GEN,AM-MONIA + ORGANIC DIS-SOLVED (MG/L AS N) (00623) |                                                           |                                                     |
| MAY 08... | 11                                                   | <0.10                                               | 0.040                                                  | 14                                                    | 97                                                       | <0.010                                                 | 3.80                                                  | 0.040                                                  | <0.20                                                       |                                                           |                                                     |
| DATE      | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)           | PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)   | IRON, DIS-SOLVED (UG/L AS FE) (01046)                  | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)           | H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)           | O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)       | RADON 222 TOTAL (PCI/L) (82303)                       | RN-222 2 SIGMA WATER, SOLVED TOTAL, (PCI/L) (76002)    | CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)              |                                                           |                                                     |
| MAY 08... | <0.010                                               | <0.010                                              | 3.0                                                    | <1.0                                                  | -29.2                                                    | -5.45                                                  | 130                                                   | 17                                                     | 5.7                                                         |                                                           |                                                     |
| DATE      | ACETO-CHLOR, WATER, FLTRD REC (UG/L) (49260)         | ALA-CHLOR, WATER, DISS, REC (UG/L) (46342)          | METO-LACHLOR, WATER, DISSOLV GF, REC (UG/L) (39415)    | NAPROP-AMIDE WATER, FLTRD, GF, REC (UG/L) (82684)     | PRON-AMIDE WATER, FLTRD, GF, REC (UG/L) (82676)          | PROP-CHLOR, WATER, DISS, REC (UG/L) (04024)            | PRO-PANIL WATER, FLTRD, GF, REC (UG/L) (82679)        | ALDI-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (49312)    | ALDI-CARB SULFONE WAT, FLT GF 0.7U REC (UG/L) (49313)       | ALDICA-RB SUL-FOXIDE, WAT, FLT GF 0.7U REC (UG/L) (49314) | BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)          |
| MAY 08... | <0.002                                               | <0.002                                              | <0.002                                                 | <0.003                                                | <0.003                                                   | <0.007                                                 | <0.004                                                | <0.016                                                 | <0.016                                                      | <0.021                                                    | <0.002                                              |
| DATE      | CAR-BARYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49310)  | CAR-BARYL, WATER, FLTRD, GF 0.7U REC (UG/L) (82680) | CARBO-FURAN, WATER, FLTRD, GF 0.7U REC (UG/L) (49309)  | CARBO-FURAN, WATER, FLTRD, GF 0.7U REC (UG/L) (82674) | 3HYDRXY CARBO-FURAN, WAT, FLT GF 0.7U REC (UG/L) (49308) | EPTC WATER, FLTRD, GF, REC (UG/L) (82668)              | METHIO-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (38501) | METH-OMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49296)    | MOL-INATE, WATER, FLTRD, GF 0.7U REC (UG/L) (82671)         | OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)          | PEB-ULATE, WATER, FLTRD, GF 0.7U REC (UG/L) (82669) |
| MAY 08... | <0.008                                               | <0.003                                              | <0.028                                                 | <0.003                                                | <0.014                                                   | <0.002                                                 | <0.026                                                | <0.017                                                 | <0.004                                                      | <0.018                                                    | <0.004                                              |
| DATE      | PRO-PHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)   | PRO-POKUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538) | THIO-BENCARB, WATER, FLTRD, GF 0.7U REC (UG/L) (82681) | TRIAL-LATE, WATER, FLTRD, GF 0.7U REC (UG/L) (82678)  | 2,4-D, DIS-SOLVED (UG/L) (39732)                         | DICHLOR PROP, WATER, FLTRD, GF 0.7U REC (UG/L) (49302) | 2,4-DB WATER, FLTRD, GF 0.7U REC (UG/L) (38746)       | MCPA, WATER, FLTRD, GF 0.7U REC (UG/L) (38482)         | MCPB, WATER, FLTRD, GF 0.7U REC (UG/L) (38487)              | SILVEX, DIS-SOLVED (UG/L) (39762)                         | 2,4,5-T DIS-SOLVED (UG/L) (39742)                   |
| MAY 08... | <0.035                                               | <0.035                                              | <0.002                                                 | <0.001                                                | <0.035                                                   | <0.032                                                 | <0.035                                                | <0.050                                                 | <0.035                                                      | <0.021                                                    | <0.035                                              |
| DATE      | TRI-CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235) | BEN-FLUR-ALIN, WAT FLD GF, REC (UG/L) (82673)       | ETHAL-FLUR-ALIN, WAT FLT GF, REC (UG/L) (82663)        | ORY-ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292)   | PENDI-METH-ALIN, WAT FLT GF, REC (UG/L) (82683)          | TRI-FLUR-ALIN, WAT FLT GF, REC (UG/L) (82661)          | ALPHA BHC DIS-SOLVED (UG/L) (34253)                   | CHLORO-THALO-NIL, WAT, FLT GF 0.7U REC (UG/L) (49306)  | DCPA, WATER, FLTRD, GF, REC (UG/L) (82682)                  | DACTHAL MONO-ACID, WAT, FLT GF 0.7U REC (UG/L) (49304)    | P, P' DDE DISSOLV (UG/L) (34653)                    |
| MAY 08... | <0.050                                               | <0.002                                              | <0.004                                                 | <0.019                                                | <0.004                                                   | <0.002                                                 | <0.002                                                | <0.035                                                 | <0.002                                                      | <0.017                                                    | <0.006                                              |



## QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

MARSHALL COUNTY--Continued

344614089264701 P078 CITY OF HOLLY SPRINGS--Continued

| DATE         | DICHLOR-<br>BENIL,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49303) | DI-<br>ELDRIN<br>DIS-<br>SOLVED<br>(UG/L)<br>(39381)                             | LINDANE<br>SOLVED<br>(UG/L)<br>(39341)                                     | METHYL<br>AZIN-<br>PHOS<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82686)     | CHLOR-<br>PYRIFOS<br>DIS-<br>SOLVED<br>(UG/L)<br>(38933)                     | DI-<br>AZINON,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39572)                          | DISUL-<br>FOTON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82677) | ETHO-<br>PROP<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82672)                   | FONOFOS<br>WATER<br>FLTRD<br>0.7 U<br>REC<br>(UG/L)<br>(04095)                 | MALA-<br>THION,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39532)                         | METHYL<br>PARA-<br>THION<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82667) |
|--------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| MAY<br>08... | <0.020                                                                        | <0.001                                                                           | <0.004                                                                     | <0.001                                                                          | <0.004                                                                       | <0.002                                                                         | <0.017                                                                     | <0.003                                                                                     | <0.003                                                                         | <0.005                                                                         | <0.006                                                                       |
| DATE         | PARA-<br>THION,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39542)                        | PHORATE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82664)               | TER-<br>BUFOS<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82675)   | PER-<br>METHRIN<br>CIS<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82687)      | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632)                | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040)       | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)             | METRI-<br>BUZIN<br>WATER,<br>SENCOR<br>DISS,<br>REC<br>(UG/L)<br>(82630)                   | PRO-<br>METON,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04037)                  | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035)                  | BRO-<br>MACIL,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04029)                |
| MAY<br>08... | <0.004                                                                        | <0.002                                                                           | <0.013                                                                     | <0.005                                                                          | <0.001                                                                       | <0.002                                                                         | <0.004                                                                     | <0.004                                                                                     | <0.018                                                                         | <0.005                                                                         | <0.035                                                                       |
| DATE         | TER-<br>BACIL<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82665)      | FEN-<br>URON,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49297)        | DIURON,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49300)        | FLUO-<br>METURON<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(38811)    | LINURON<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(38478)          | LIN-<br>URON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82666)        | NEB-<br>URON,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49294)  | TEBU-<br>THIURON<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82670)               | ACIFL-<br>UORFEN<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49315)   | BENTA-<br>ZON,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(38711)     | BRO-<br>MOXYNIL<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49311)  |
| MAY<br>08... | <0.007                                                                        | <0.013                                                                           | <0.020                                                                     | <0.035                                                                          | <0.018                                                                       | <0.002                                                                         | <0.015                                                                     | <0.010                                                                                     | <0.035                                                                         | <0.014                                                                         | <0.035                                                                       |
| DATE         | CHLOR-<br>AMEN,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49307)     | CLOPYR-<br>ALID,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49305)       | DICAMBA<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(38442)          | 2,6-DI-<br>ETHYL<br>ANILINE<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82660) | DINOSEB<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49301)          | DNOC<br>WAT,FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49299)                         | ESFEN-<br>VAL-<br>ERATE,<br>WAT,FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49298) | 1-NAPH-<br>THOL,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49295)                 | NORFLUR<br>AZON,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49293)     | PIC-<br>LORAM,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49291)       | PRO-<br>PARGITE<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82685)  |
| MAY<br>08... | <0.011                                                                        | <0.050                                                                           | <0.035                                                                     | <0.003                                                                          | <0.035                                                                       | <0.035                                                                         | <0.019                                                                     | <0.007                                                                                     | <0.024                                                                         | <0.050                                                                         | <0.013                                                                       |
| DATE         | 1,2-<br>DIBROMO<br>ETHANE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77651)     | CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34311)                                  | 1,1-DI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34496)                 | 1,2-DI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(32103)                      | 1,1,1-<br>TRI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34506)            | 1,1,2-<br>TRI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34511)              | FREON-<br>113<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77652)              | ETHANE,<br>1112-<br>TETRA-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(77562)               | ETHANE,<br>1,1,2,2<br>TETRA-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(34516) | ETHANE<br>HEXA-<br>CHLORO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(34396) | METHYL-<br>BROMIDE<br>TOTAL<br>(UG/L)<br>(34413)                             |
| MAY<br>08... | <0.100                                                                        | <0.100                                                                           | <0.050                                                                     | <0.050                                                                          | <0.050                                                                       | <0.100                                                                         | <0.050                                                                     | <0.050                                                                                     | <0.100                                                                         | <0.050                                                                         | <0.100                                                                       |
| DATE         | METHANE<br>BROMO<br>CHLORO-<br>WAT<br>UNFLTRD<br>REC<br>(UG/L)<br>(77297)     | DI-<br>CHLORO-<br>BROMO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(32101)                | DI-<br>BROMO-<br>METHANE<br>WATER<br>WHOLE<br>RECOVER<br>(UG/L)<br>(30217) | BROMO-<br>FORM<br>TOTAL<br>(UG/L)<br>(32104)                                    | METHYL-<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(34418)                       | CHLORO-<br>DI-<br>BROMO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(32105)                 | METHYL-<br>ENE<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(34423)              | DI-<br>CHLORO-<br>DI-<br>FLUORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(34668)                    | CHLORO-<br>FORM<br>TOTAL<br>(UG/L)<br>(32106)                                  | TRI-<br>CHLORO-<br>FLUORO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(34488) | CARBON-<br>TETRA-<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(32102)             |
| MAY<br>08... | <0.100                                                                        | <0.100                                                                           | <0.100                                                                     | <0.200                                                                          | <0.200                                                                       | <0.100                                                                         | <0.100                                                                     | <0.200                                                                                     | E0.020                                                                         | <0.100                                                                         | <0.050                                                                       |
| DATE         | METHYL<br>IODIDE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77424)          | DIBROMO<br>CHLORO-<br>PROPANE<br>WATER<br>WHOLE<br>TOT. REC<br>(UG/L)<br>(82625) | 1,2-DI-<br>CHLORO-<br>PROPANE<br>WAT. WH<br>TOTAL<br>(UG/L)<br>(34541)     | 1,3-DI-<br>CHLORO-<br>PROPANE<br>WAT. WH<br>TOTAL<br>(UG/L)<br>(77173)          | 2,2-DI-<br>CHLORO-<br>PRO-<br>PANE<br>WAT, WH<br>TOTAL<br>(UG/L)<br>(77170)  | 123-TRI-<br>CHLORO-<br>PROPANE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77443) | HEXA-<br>CHLORO-<br>BUT-<br>ADIENE<br>TOTAL<br>(UG/L)<br>(39702)           | 2BUTENE<br>TRANS-1<br>4-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(73547) | BROMO-<br>ETHENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50002)           | VINYL<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(39175)                           | 1,1-DI-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(34503)            |
| MAY<br>08... | <0.050                                                                        | <0.500                                                                           | <0.050                                                                     | <0.050                                                                          | <0.050                                                                       | <0.200                                                                         | <0.200                                                                     | <5.00                                                                                      | <0.100                                                                         | <0.100                                                                         | <0.100                                                                       |
| DATE         | CIS-1,2<br>-DI-<br>CHLORO-<br>ETHENE<br>WATER<br>TOTAL<br>(UG/L)<br>(77093)   | 1,2-<br>TRANSDI<br>CHLORO-<br>ETHENE<br>TOTAL<br>(UG/L)<br>(34546)               | TRI-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(39180)             | TETRA-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(34475)                | PROPENE<br>3-<br>CHLORO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(78109) | 1,1-DI-<br>CHLORO-<br>PRO-<br>PENE,<br>WAT, WH<br>TOTAL<br>(UG/L)<br>(77168)   | CIS<br>1,3-DI-<br>CHLORO-<br>PROPENE<br>TOTAL<br>(UG/L)<br>(34704)         | TRANS-<br>1,3-DI-<br>CHLORO-<br>PROPENE<br>TOTAL<br>(UG/L)<br>(34699)                      | BENZENE<br>N-BUTYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77342)             | BENZENE<br>SEC<br>BUTYL-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77350)       | BENZENE<br>TERT-<br>BUTYL-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77353)   |
| MAY<br>08... | <0.050                                                                        | <0.050                                                                           | E0.050                                                                     | 0.180                                                                           | <0.100                                                                       | <0.050                                                                         | <0.100                                                                     | <0.100                                                                                     | <0.050                                                                         | <0.050                                                                         | <0.050                                                                       |

## QUALITY OF GROUND WATER

289

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

MARSHALL COUNTY--Continued

344614089264701 P078 CITY OF HOLLY SPRINGS--Continued

| DATE         | ETHYL-<br>BENZENE<br>TOTAL<br>(UG/L)<br>(34371)                               | TOLUENE<br>TOTAL<br>(UG/L)<br>(34010)                                      | O-<br>XYLENE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77135)                  | META/<br>PARA-<br>XYLENE<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(85795)        | BENZENE<br>123-TRI<br>METHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77221) | BENZENE<br>124-TRI<br>METHYL<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77222)         | BENZENE<br>135-TRI<br>METHYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77226)    | PREH-<br>NITENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(49999)                   | ISO-<br>DURENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50000)            | ISO-<br>PROPYL-<br>BENZENE<br>WATER<br>WHOLE<br>REC<br>(UG/L)<br>(77223)       | BENZENE<br>N-PROPYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77224)               |
|--------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|              | MAY<br>08...                                                                  | <0.050                                                                     | <0.050                                                                        | <0.050                                                                          | <0.050                                                                            | <0.050                                                                          | E0.060                                                                          | <0.050                                                                                | <0.050                                                                        | <0.050                                                                         | <0.050                                                                            |
| DATE         | TOLUENE<br>O-ETHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77220)        | P-ISO-<br>PROPYL-<br>TOLUENE<br>WATER<br>WHOLE<br>REC<br>(UG/L)<br>(77356) | BENZENE<br>TOTAL<br>(UG/L)<br>(34030)                                         | NAPHTH-<br>ALENE<br>TOTAL<br>(UG/L)<br>(34696)                                  | STYRENE<br>TOTAL<br>(UG/L)<br>(77128)                                             | ACETONE<br>WATER<br>WHOLE<br>UNFLTRD<br>TOTAL<br>(UG/L)<br>(81552)              | ETHER<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81576)             | ETHER<br>TERT-<br>BUTYL<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50004) | METHYL<br>TERT-<br>BUTYL<br>ETHER<br>WAT UNF<br>REC<br>(UG/L)<br>(78032)      | ETHER<br>TERT-<br>PENTYL<br>METHYL-<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50005) | DI-ISO-<br>PROPYL-<br>ETHER,<br>WATER,<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81577) |
| MAY<br>08... | <0.050                                                                        | <0.050                                                                     | <0.050                                                                        | <0.200                                                                          | <0.050                                                                            | <5.00                                                                           | <0.100                                                                          | <0.100                                                                                | <0.100                                                                        | <0.100                                                                         | 0.100                                                                             |
| DATE         | FURAN<br>TETRA-<br>HYDRO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81607) | 2-HEXA-<br>NONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77103)            | METHYL-<br>ISO-<br>BUTYL-<br>KETONE<br>WAT. WH.<br>TOTAL<br>(UG/L)<br>(78133) | METHYL-<br>ETHYL-<br>KETONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(81595)     | BROMO-<br>BENZENE<br>WATER,<br>WHOLE,<br>TOTAL<br>(UG/L)<br>(81555)               | CHLORO-<br>BENZENE<br>TOTAL<br>(UG/L)<br>(34301)                                | BENZENE<br>O-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34536)     | BENZENE<br>1,3-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34566)         | BENZENE<br>1,4-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34571) | 1,2,3-<br>TRI-<br>CHLORO-<br>BENZENE<br>WAT, WH<br>REC<br>(UG/L)<br>(77613)    | BENZENE<br>1,2,4-<br>TRI-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(34551)       |
| MAY<br>08... | <5.00                                                                         | <5.00                                                                      | <5.00                                                                         | <5.00                                                                           | <0.050                                                                            | <0.050                                                                          | <0.050                                                                          | <0.050                                                                                | <0.050                                                                        | <0.200                                                                         | <0.200                                                                            |
| DATE         | O-<br>CHLORO-<br>TOLUENE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77275)      | TOLUENE<br>P-CHLOR<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77277)         | CARBON<br>DI-<br>SULFIDE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77041)      | METHAC-<br>RYLATE<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(73570) | METHYL<br>ACRY-<br>LATE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(49991)       | METH-<br>ACRYLO-<br>NITRITE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81593) | METHAC-<br>RYLATE<br>METHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81597) | ACRO-<br>LEIN<br>TOTAL<br>(UG/L)<br>(34210)                                           | ACRYLO-<br>NITRILE<br>TOTAL<br>(UG/L)<br>(34215)                              | ACETATE<br>VINYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77057)           |                                                                                   |
| MAY<br>08... | <0.050                                                                        | <0.050                                                                     | <0.050                                                                        | <1.00                                                                           | <2.00                                                                             | <2.00                                                                           | <1.00                                                                           | <2.00                                                                                 | <2.00                                                                         | <2.00                                                                          | <5.00                                                                             |

## QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## PANOLA COUNTY

341915089561101 R090 CITY OF BATESVILLE

|              |                                                                            |                                                                           |                                                                             | PUMP<br>OR FLOW<br>PERIOD<br>PRIOR                                          |                                                                               |                                                                             |                                                                             |                                                                              |                                                                               |                                                                                  |                                                                          |
|--------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| DATE         | TIME                                                                       | GEO-<br>LOGIC<br>UNIT                                                     | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET)<br>(72008)                          | 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)                                 | WELL<br>PURGING<br>CONDI-<br>TION<br>(CODE)<br>(84143)                        | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095)                     |                                                                          |
| APR<br>17... | 1000                                                                       | 124WLCXL                                                                  | 1079                                                                        | 60                                                                          | 1                                                                             | 4040                                                                        | 0.10                                                                        | 4040                                                                         | 160                                                                           | 352                                                                              |                                                                          |
| DATE         | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400)       | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010)                           | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300)                              | 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)               | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA)<br>(00930)                     | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K)<br>(00935)              | BICAR-<br>BONATE<br>WATER<br>DIS IT<br>FIELD<br>MG/L AS<br>HC03<br>(00453)   | ALKA-<br>LINITY<br>WAT DIS<br>TOT IT<br>FIELD<br>MAG/L AS<br>CAC03<br>(39086) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS S04)<br>(00945)                         |                                                                          |
| APR<br>17... | 8.6                                                                        | 24.0                                                                      | <0.1                                                                        | 0.74                                                                        | 0.18                                                                          | 84                                                                          | 0.80                                                                        | 201                                                                          | 165                                                                           | 0.30                                                                             |                                                                          |
| DATE         | 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)             | BROMIDE<br>DIS-<br>SOLVED<br>(MG/L<br>AS BR)<br>(71870)                     | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2)<br>(00955)                | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613)    | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631)    | 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>DIS.<br>(MG/L<br>AS N)<br>(00623)  | PHOS-<br>PHORUS<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00666)                   |                                                                          |
| APR<br>17... | 10                                                                         | 0.10                                                                      | 0.070                                                                       | 12                                                                          | 202                                                                           | <0.010                                                                      | 0.120                                                                       | 0.280                                                                        | 0.30                                                                          | 0.350                                                                            |                                                                          |
| DATE         | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671)   | 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)             | H-2 /<br>H-1<br>STABLE<br>ISOTOPE<br>RATIO<br>PER<br>MIL<br>(82082)         | O-18 /<br>O-16<br>STABLE<br>ISOTOPE<br>RATIO<br>PER<br>MIL<br>(82085)         | RADON<br>222<br>TOTAL<br>(PCI/L)<br>(82303)                                 | RN-222<br>2 SIGMA<br>WATER,<br>WHOLE,<br>TOTAL,<br>(PCI/L)<br>(76002)       | TRITIUM<br>2 SIGMA<br>WATER,<br>WHOLE,<br>TOTAL<br>(PCI/L)<br>(07000)        | TRITIUM<br>2 SIGMA<br>WATER,<br>WHOLE,<br>TOTAL<br>(PCI/L)<br>(75985)         | CARBON,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS C)<br>(00681)                |                                                                          |
| APR<br>17... | 0.370                                                                      | 8.0                                                                       | 6.0                                                                         | -30.8                                                                       | -5.55                                                                         | 87                                                                          | 19                                                                          | <1.0                                                                         | 1.0                                                                           | 0.90                                                                             |                                                                          |
| DATE         | 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)            | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>GF, REC<br>(UG/L)<br>(39415)        | NAPROP-<br>AMIDE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82684) | FRON-<br>AMIDE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82676)     | PROP-<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)    | ALDI-<br>CARB,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49312)    | ALDI-<br>CARB<br>SULFONE<br>WAT, FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49313)   | ALDICA-<br>RB SUL-<br>FOXIDE,<br>WAT, FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49314) | BUTYL-<br>ATE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04028)            |
| APR<br>17... | <0.002                                                                     | <0.002                                                                    | <0.002                                                                      | <0.003                                                                      | <0.003                                                                        | <0.007                                                                      | <0.004                                                                      | <0.016                                                                       | <0.016                                                                        | <0.021                                                                           | <0.002                                                                   |
| DATE         | CAR-<br>BARYL,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49310)  | CAR-<br>BARYL<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82680) | CARBO-<br>FURAN,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49309) | CARBO-<br>FURAN<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82674)  | 3HYDRXY<br>CARBO-<br>FURAN<br>WAT, FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49308) | EPTC<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82668)             | METHIO-<br>CARB,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(38501) | METH-<br>OMYL,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49296)    | MOL-<br>INATE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82671)      | OXAMYL,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(38866)               | PEB-<br>ULATE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82669) |
| APR<br>17... | <0.008                                                                     | <0.003                                                                    | <0.028                                                                      | <0.003                                                                      | <0.014                                                                        | <0.002                                                                      | <0.026                                                                      | <0.017                                                                       | <0.004                                                                        | <0.018                                                                           | <0.004                                                                   |
| DATE         | PRO-<br>PHAM,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49236)   | PRO-<br>POXUR,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(38538) | 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)   | 2,4-D,<br>DIS-<br>SOLVED<br>REC<br>(UG/L)<br>(39732)                          | DICHLOR<br>PROP,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49302) | 2,4-DB<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(38746)           | MCPA,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(38482)             | MCPB,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(38487)              | SILVEX,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39762)                                   | 2,4,5-T<br>DIS-<br>SOLVED<br>(UG/L)<br>(39742)                           |
| APR<br>17... | <0.035                                                                     | <0.035                                                                    | <0.002                                                                      | <0.001                                                                      | <0.035                                                                        | <0.032                                                                      | <0.035                                                                      | <0.050                                                                       | <0.035                                                                        | <0.021                                                                           | <0.035                                                                   |
| DATE         | TRI-<br>CLOPYR,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49235) | BEN-<br>FLUR-<br>ALIN<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82673) | ETHAL-<br>FLUR-<br>ALIN<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82663) | ORY-<br>ZALIN,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49292)   | PENDI-<br>METH-<br>ALIN<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82683)   | TRI-<br>FLUR-<br>ALIN<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82661)   | ALPHA<br>BHC<br>DIS-<br>SOLVED<br>(UG/L)<br>(34253)                         | CHLORO-<br>THALO-<br>NIL,<br>WAT, FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49306) | DCPA<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82682)               | DACTHAL<br>MONO-<br>ACID,<br>WAT, FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49304)     | P, P'<br>DDE<br>DISSOLV<br>(UG/L)<br>(34653)                             |
| APR<br>17... | <0.050                                                                     | <0.002                                                                    | <0.004                                                                      | <0.019                                                                      | <0.004                                                                        | <0.002                                                                      | <0.002                                                                      | <0.035                                                                       | <0.002                                                                        | <0.017                                                                           | <0.006                                                                   |

## WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## PANOLA COUNTY--Continued

## 341915089561101 R090 CITY OF BATESVILLE--Continued

| DATE         | DICHLOR-<br>BENIL,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49303) | DI-<br>ELDRIN<br>DIS-<br>SOLVED<br>(UG/L)<br>(39381)                            | LINDANE<br>DIS-<br>SOLVED<br>(UG/L)<br>(39341)                           | METHYL<br>AZIN-<br>PHOS<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82686)     | CHLOR-<br>PYRIFOS<br>DIS-<br>SOLVED<br>(UG/L)<br>(38933)                     | DI-<br>AZINON,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39572)                          | DISUL-<br>FOTON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82677) | ETHO-<br>PROP<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82672)         | FOFONOS<br>WATER<br>DIS-<br>REC<br>(UG/L)<br>(04095)                           | MALA-<br>THION,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39532)                         | METHYL<br>PARA-<br>THION<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82667) |
|--------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| APR<br>17... | <0.020                                                                        | <0.001                                                                          | <0.004                                                                   | <0.001                                                                          | <0.004                                                                       | <0.002                                                                         | <0.017                                                                     | <0.003                                                                           | <0.003                                                                         | <0.005                                                                         | <0.006                                                                       |
| DATE         | PARA-<br>THION,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39542)                        | PHORATE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82664)              | TER-<br>BUFOS<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82675) | PER-<br>METHIRIN<br>CIS<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82687)     | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632)                | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040)       | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)             | METRI-<br>BUZIN<br>SENCOR<br>WATER<br>DISSOLV<br>REC<br>(UG/L)<br>(82630)        | PRO-<br>METON,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04037)                  | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035)                  | BRO-<br>MACIL,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04029)                |
| APR<br>17... | <0.004                                                                        | <0.002                                                                          | <0.013                                                                   | <0.005                                                                          | <0.001                                                                       | <0.002                                                                         | <0.004                                                                     | <0.004                                                                           | <0.018                                                                         | <0.005                                                                         | <0.035                                                                       |
| DATE         | TER-<br>BACIL<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82665)     | FEN-<br>URON,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49297)       | DIURON,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49300)      | FLUO-<br>METURON<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(38811)    | LINURON<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(38478)          | LIN-<br>URON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82666)        | NEB-<br>URON,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49294)  | TEBU-<br>THIURON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82670)      | ACIFL-<br>UORFEN<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49315)   | BENTA-<br>ZON,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(38711)     | BRO-<br>MOXYNIL<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49311)  |
| APR<br>17... | <0.007                                                                        | <0.013                                                                          | <0.020                                                                   | <0.035                                                                          | <0.018                                                                       | <0.002                                                                         | <0.015                                                                     | <0.010                                                                           | <0.035                                                                         | <0.014                                                                         | <0.035                                                                       |
| DATE         | CHLOR-<br>AMBEN,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49307)    | CLOPYR-<br>ALID,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49305)      | DICAMBA<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(38442)        | 2,6-DI-<br>ETHYL<br>ANILINE<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82660) | DINOSEB<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49301)          | DNOC<br>WAT,FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49299)                         | ESFEN-<br>VAL-<br>ERATE,<br>WAT,FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49298) | 1-NAPH-<br>THOL,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49295)       | NORFLUR<br>AZON,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49293)     | PIC-<br>LORAM,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49291)       | PRO-<br>PARGITE<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82685)  |
| APR<br>17... | <0.011                                                                        | <0.050                                                                          | <0.035                                                                   | <0.003                                                                          | <0.035                                                                       | <0.035                                                                         | <0.019                                                                     | <0.007                                                                           | <0.024                                                                         | <0.050                                                                         | <0.013                                                                       |
| DATE         | 1,2-<br>DIBROMO<br>ETHANE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77651)     | CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34311)                                 | 1,1-DI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34496)               | 1,2-DI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(32103)                      | 1,1,1-<br>TRI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34506)            | 1,1,2-<br>TRI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34511)              | FREON-<br>113<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77652)              | ETHANE,<br>1112-<br>TETRA-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(77562)     | ETHANE,<br>1,1,2,2<br>TETRA-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(34516) | ETHANE<br>HEXA-<br>CHLORO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(34396) | METHYL-<br>BROMIDE<br>TOTAL<br>(UG/L)<br>(34413)                             |
| APR<br>17... | <0.100                                                                        | <0.100                                                                          | <0.050                                                                   | <0.050                                                                          | <0.050                                                                       | <0.100                                                                         | <0.050                                                                     | <0.050                                                                           | <0.100                                                                         | <0.050                                                                         | <0.100                                                                       |
| DATE         | METHANE<br>BROMO<br>CHLORO-<br>WAT<br>UNFLTRD<br>REC<br>(UG/L)<br>(77297)     | DI-<br>CHLORO-<br>BROMO-<br>WAT<br>TOTAL<br>(UG/L)<br>(32101)                   | DI-<br>BROMO-<br>WATER<br>WHOLE<br>RECOVER<br>(UG/L)<br>(30217)          | BROMO-<br>FORM<br>TOTAL<br>(UG/L)<br>(32104)                                    | METHYL-<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(34418)                       | CHLORO-<br>DI-<br>BROMO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(32105)              | METHYL-<br>ENE<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(34423)              | DI-<br>CHLORO-<br>FLUORO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(34668)               | CHLORO-<br>FORM<br>TOTAL<br>(UG/L)<br>(32106)                                  | TRI-<br>CHLORO-<br>FLUORO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(34488)            | CARBON-<br>TETRA-<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(32102)             |
| APR<br>17... | <0.100                                                                        | <0.100                                                                          | <0.100                                                                   | <0.200                                                                          | V0.020                                                                       | <0.100                                                                         | <0.100                                                                     | <0.200                                                                           | <0.050                                                                         | <0.100                                                                         | <0.050                                                                       |
| DATE         | METHYL<br>IODIDE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77424)          | DIBROMO<br>CHLORO-<br>PROPANE<br>WATER<br>WHOLE<br>TOT.REC<br>(UG/L)<br>(82625) | 1,2-DI-<br>CHLORO-<br>PROPANE<br>WAT. WH<br>TOTAL<br>(UG/L)<br>(34541)   | 1,3-DI-<br>CHLORO-<br>PROPANE<br>WAT. WH<br>TOTAL<br>(UG/L)<br>(77173)          | 2,2-DI-<br>CHLORO-<br>PRO-<br>PANE<br>WAT. WH<br>TOTAL<br>(UG/L)<br>(77170)  | 123-TRI-<br>CHLORO-<br>PROPANE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77443) | HEXA-<br>CHLORO-<br>BUT-<br>ADIENE<br>TOTAL<br>(UG/L)<br>(39702)           | 2BUTENE<br>TRANS-1<br>4-DI-<br>CHLORO<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(73547) | BROMO-<br>ETHENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50002)           | VINYL<br>CHLORO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(39175)                         | 1,1-DI-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(34501)            |
| APR<br>17... | <0.050                                                                        | <0.500                                                                          | <0.050                                                                   | <0.050                                                                          | <0.050                                                                       | <0.200                                                                         | <0.200                                                                     | <5.00                                                                            | <0.100                                                                         | <0.100                                                                         | <0.100                                                                       |
| DATE         | CIS-1,2<br>DI-<br>CHLORO-<br>ETHENE<br>WATER<br>TOTAL<br>(UG/L)<br>(77093)    | 1,2-<br>TRANSDI<br>CHLORO-<br>ETHENE<br>TOTAL<br>(UG/L)<br>(34546)              | TRI-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(39180)           | TETRA-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(34475)                | PROPENE<br>3-<br>CHLORO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(78109) | 1,1-DI-<br>CHLORO-<br>PRO-<br>PENE,<br>WAT. WH<br>TOTAL<br>(UG/L)<br>(77168)   | CIS<br>1,3-DI-<br>CHLORO-<br>PROPENE<br>TOTAL<br>(UG/L)<br>(34704)         | TRANS-<br>1,3-DI-<br>CHLORO-<br>PROPENE<br>TOTAL<br>(UG/L)<br>(34699)            | BENZENE<br>N-BUTYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77342)             | BENZENE<br>SEC<br>BUTYL-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77350)       | BENZENE<br>TERT-<br>BUTYL-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77353)   |
| APR<br>17... | <0.050                                                                        | <0.050                                                                          | <0.050                                                                   | <0.050                                                                          | <0.100                                                                       | <0.050                                                                         | <0.100                                                                     | <0.100                                                                           | <0.050                                                                         | <0.050                                                                         | <0.050                                                                       |

## QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

PANOLA COUNTY--Continued

341915089561101 R090 CITY OF BATESVILLE--Continued

| DATE | ETHYL-<br>BENZENE<br>TOTAL<br>(UG/L)<br>(34371)                               | TOLUENE<br>TOTAL<br>(UG/L)<br>(34010)                                      | O-<br>XYLENE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77135)                  | META/<br>PARA-<br>XYLENE<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(85795)        | BENZENE<br>123-TRI<br>METHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77221) | BENZENE<br>124-TRI<br>METHYL<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77222)         | BENZENE<br>135-TRI<br>METHYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77226)    | PREH-<br>NITENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(49999)           | ISO-<br>DURENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50000)            | ISO-<br>PROPYL-<br>BENZENE<br>WATER<br>WHOLE<br>REC<br>(UG/L)<br>(77223)       | BENZENE<br>N-PROPYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77224)                    |
|------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
|      | APR<br>17...                                                                  | <0.050                                                                     | <0.050                                                                        | <0.050                                                                          | <0.050                                                                            | <0.050                                                                          | <0.050                                                                          | <0.050                                                                        | <0.050                                                                        | <0.050                                                                         | <0.050                                                                                 |
| DATE | TOLUENE<br>O-ETHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77220)        | P-ISO-<br>PROPYL-<br>TOLUENE<br>WATER<br>WHOLE<br>REC<br>(UG/L)<br>(77356) | BENZENE<br>TOTAL<br>(UG/L)<br>(34030)                                         | NAPHTH-<br>ALENE<br>TOTAL<br>(UG/L)<br>(34696)                                  | STYRENE<br>TOTAL<br>(UG/L)<br>(77128)                                             | ACETONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(81552)                         | ETHER<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81576)             | ETHER<br>TERT-<br>BUTYL<br>ETHYL-<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50004)  | METHYL<br>TERT-<br>BUTYL<br>ETHER<br>WAT UNF<br>REC<br>(UG/L)<br>(78032)      | ETHER<br>TERT-<br>PENTYL<br>METHYL-<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50005) | DI-ISO-<br>PROPYL-<br>ETHER,<br>WATER,<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81577)      |
|      | APR<br>17...                                                                  | <0.050                                                                     | <0.050                                                                        | <0.050                                                                          | <0.200                                                                            | <0.050                                                                          | <5.00                                                                           | <0.100                                                                        | <0.100                                                                        | <0.100                                                                         | <0.100                                                                                 |
| DATE | FURAN<br>TETRA-<br>HYDRO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81607) | 2-HEXA-<br>NONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77103)            | METHYL-<br>ISO-<br>BUTYL-<br>KETONE<br>WAT. WH.<br>TOTAL<br>(UG/L)<br>(78133) | METHYL-<br>ETHYL-<br>KETONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(81595)     | BROMO-<br>BENZENE<br>WATER,<br>WHOLE,<br>TOTAL<br>(UG/L)<br>(81555)               | CHLORO-<br>BENZENE<br>TOTAL<br>(UG/L)<br>(34301)                                | BENZENE<br>O-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34536)     | BENZENE<br>1,3-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34566) | BENZENE<br>1,4-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34571) | 1,2,3-<br>TRI-<br>CHLORO-<br>BENZENE<br>WAT, WH<br>REC<br>(UG/L)<br>(77613)    | BENZENE<br>1,2,4-<br>TRI-<br>CHLORO-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(34551) |
|      | APR<br>17...                                                                  | <5.00                                                                      | <5.00                                                                         | <5.00                                                                           | <5.00                                                                             | <0.050                                                                          | <0.050                                                                          | <0.050                                                                        | <0.050                                                                        | <0.050                                                                         | <0.200                                                                                 |
| DATE | O-<br>CHLORO-<br>TOLUENE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77275)      | TOLUENE<br>P-CHLOR<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77277)         | CARBON<br>DI.<br>SULFIDE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77041)      | METHAC-<br>RYLATE<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(73570) | METHYL<br>ACRY-<br>LATE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(49991)       | METH-<br>ACRYLO-<br>NITRITE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81593) | METHAC-<br>RYLATE<br>METHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81597) | ACRO-<br>LEIN<br>TOTAL<br>(UG/L)<br>(34210)                                   | ACRYLO-<br>NITRILE<br>TOTAL<br>(UG/L)<br>(34215)                              | ACETATE<br>VINYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77057)           |                                                                                        |
|      | APR<br>17...                                                                  | <0.050                                                                     | <0.050                                                                        | E0.007                                                                          | <1.00                                                                             | <2.00                                                                           | <2.00                                                                           | <1.00                                                                         | <2.00                                                                         | <2.00                                                                          | <5.00                                                                                  |

QUALITY OF GROUND WATER

293

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

PERRY COUNTY

311014088551001 J076 GERALD RICH

| DATE      | TIME                                              | GEO-LOGIC UNIT                               | AGENCY COL-LECTING SAMPLE (CODE NUMBER)<br>(00027)         | DEPTH OF WELL, TOTAL (FEET)<br>(72008)               | FLOW RATE, INSTAN-TANEOUS (G/M)<br>(00059)           | SAMPLE SOURCE<br>(72005)                             | SAMPLER TYPE<br>(CODE)<br>(84164)                    | SAM-PLING METHOD, CODES<br>(82398)         | WELL PURGING CONDI-TION<br>(CODE)<br>(84143)   | SPE-CIFIC CON-DUCT-ANCE<br>(US/CM)<br>(00095) |
|-----------|---------------------------------------------------|----------------------------------------------|------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|--------------------------------------------|------------------------------------------------|-----------------------------------------------|
| APR 25... | 1110                                              | 122MOCN                                      | 1028                                                       | 520.00                                               | 4.0                                                  | 1                                                    | 4100                                                 | 4100                                       | 170                                            | 501                                           |
| DATE      | PH WATER WHOLE FIELD (STAND-ARD UNITS)<br>(00400) | TEMPER-ATURE WATER (DEG C)<br>(00010)        | COLOR (PLAT-INUM-COBALT UNITS)<br>(00080)                  | CALCIUM DIS-SOLVED (MG/L AS CA)<br>(00915)           | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)<br>(00925)       | SODIUM, DIS-SOLVED (MG/L AS NA)<br>(00930)           | POTAS-SIUM, DIS-SOLVED (MG/L AS K)<br>(00935)        | ALKA-LINITY LAB (MG/L AS CAC03)<br>(90410) | SULFATE DIS-SOLVED (MG/L AS SO4)<br>(00945)    | CHLO-RIDE, DIS-SOLVED (MG/L AS CL)<br>(00940) |
| APR 25... | 7.8                                               | 22.0                                         | 5                                                          | 1.0                                                  | 0.20                                                 | 110                                                  | 0.90                                                 | 115                                        | 7.6                                            | 85                                            |
| DATE      | FLUO-RIDE, DIS-SOLVED (MG/L AS P)<br>(00950)      | SILICA, DIS-SOLVED (MG/L AS SIO2)<br>(00955) | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)<br>(70300) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)<br>(00613) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)<br>(00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)<br>(00608) | PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)<br>(00671) | IRON, DIS-SOLVED (UG/L AS FE)<br>(01046)   | MANGA-NESE, DIS-SOLVED (UG/L AS MN)<br>(01056) |                                               |
| APR 25... | 0.20                                              | 15                                           | 282                                                        | <0.010                                               | <0.020                                               | 0.240                                                | 0.120                                                | 9.0                                        | 6.0                                            |                                               |



## QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## QUITMAN COUNTY

341020090080501 J056 CITY OF CROWDER

|           |                                                      |                                                     |                                                       | PUMP                                                |                                                            |                                                        |                                                        |                                                        |                                                          |                                                       |                                                     |
|-----------|------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------|
| DATE      | TIME                                                 | GEO-LOGIC UNIT                                      | DEPTH OF WELL, TOTAL (FEET)                           | OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)             | SAMPLE SOURCE                                              | SAMPLER TYPE (CODE)                                    | SAM-PLING CONDI-TION                                   | SAM-PLING METHOD, CODES                                | WELL PURGING CONDI-TION (CODE)                           | SPE-CIFIC CON-DUCT-ANCE (US/CM)                       |                                                     |
|           |                                                      |                                                     | (72008)                                               | (72004)                                             | (72005)                                                    | (84164)                                                | (72006)                                                | (82398)                                                | (84143)                                                  | (00095)                                               |                                                     |
| APR 18... | 1000                                                 | 124WLCXM                                            | 922.00                                                | 60                                                  | 1                                                          | 4040                                                   | 0.10                                                   | 4040                                                   | 160                                                      | 619                                                   |                                                     |
| DATE      | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)       | TEMPER-ATURE WATER (DEG C) (00010)                  | OXYGEN, DIS-SOLVED (MG/L) (00300)                     | CALCIUM DIS-SOLVED (MG/L AS CA) (00915)             | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)                | SODIUM, DIS-SOLVED (MG/L AS NA) (00930)                | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)             | BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453) | ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945)              |                                                     |
| APR 18... | 8.8                                                  | 21.5                                                | <0.1                                                  | 1.1                                                 | 0.32                                                       | 150                                                    | 1.5                                                    | 378                                                    | 310                                                      | 0.40                                                  |                                                     |
| DATE      | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)           | FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)           | BROMIDE DIS-SOLVED (MG/L AS BR) (71870)               | SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)           | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L AS) (70300) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)      | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)      | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)      | NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)   |                                                       |                                                     |
| APR 18... | 17                                                   | 0.30                                                | 0.10                                                  | 12                                                  | 362                                                        | <0.010                                                 | 0.110                                                  | 0.740                                                  | 0.90                                                     |                                                       |                                                     |
| DATE      | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)           | PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)   | IRON, DIS-SOLVED (UG/L AS FE) (01046)                 | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)         | RADON 222 TOTAL (PCI/L) (82303)                            | RN-222 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L) (76002)    | TRITIUM 2 SIGMA WHOLE, TOTAL (PCI/L) (07000)           | TRITIUM 2 SIGMA WHOLE, SOLVED (MG/L AS C) (75985)      | CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)           |                                                       |                                                     |
| APR 18... | 0.460                                                | 0.470                                               | 25                                                    | 6.0                                                 | 150                                                        | 18                                                     | <1.0                                                   | 1.0                                                    | 2.1                                                      |                                                       |                                                     |
| DATE      | ACETO-CHLOR, WATER, FLTRD REC (UG/L) (49260)         | ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)         | METO-LACHLOR, WATER, DISSOLV, GF, REC (UG/L) (39415)  | NAPROP-AMIDE WATER, FLTRD 0.7 U (UG/L) (82684)      | PRON-AMIDE WATER, FLTRD 0.7 U (UG/L) (82676)               | PROP-CHLOR, WATER, DISS, REC (UG/L) (04024)            | PRO-PANIL, WATER, FLTRD 0.7 U (UG/L) (82679)           | ALDI-CARB, WATER, FLTRD, GF 0.7U (UG/L) (49312)        | ALDI-CARB, SULFONE, WAT, FLT GF 0.7U (UG/L) (49313)      | ALDICA-RE SUL-FOXIDE, WAT, FLT GF 0.7U (UG/L) (49314) | BUTYL-ATE, WATER, FLTRD, DISS, REC (UG/L) (04028)   |
| APR 18... | <0.002                                               | <0.002                                              | <0.002                                                | <0.003                                              | <0.003                                                     | <0.007                                                 | <0.004                                                 | <0.016                                                 | <0.016                                                   | <0.021                                                | <0.002                                              |
| DATE      | CAR-BARYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49310)  | CAR-BARYL, WATER, FLTRD, GF 0.7 U (UG/L) (82680)    | CARBO-FURAN, WATER, FLTRD, GF 0.7U REC (UG/L) (49309) | CARBO-FURAN, WATER, FLTRD, GF 0.7 U (UG/L) (82674)  | 3HYDRXY CARBO-FURAN, WAT, FLT GF 0.7U REC (UG/L) (49308)   | EPTC WATER, FLTRD, GF 0.7 U (UG/L) (82668)             | METHIO-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (38501)  | METH-OMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49296)    | MOL-INATE, WATER, FLTRD, GF 0.7 U REC (UG/L) (82671)     | OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)      | PEB-ULATE, WATER, FLTRD, GF 0.7U REC (UG/L) (82669) |
| APR 18... | <0.008                                               | <0.003                                              | <0.028                                                | <0.003                                              | <0.014                                                     | <0.002                                                 | <0.026                                                 | <0.017                                                 | <0.004                                                   | <0.018                                                | <0.004                                              |
| DATE      | PRO-PHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)   | PRO-POXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538) | THIO-BENCARB, WATER, FLTRD, GF 0.7 U (UG/L) (82681)   | TRIAL-LATE WATER, FLTRD, GF 0.7 U (UG/L) (82678)    | 2,4-D, DIS-SOLVED (UG/L) (39732)                           | DICHLOR PROP, WATER, FLTRD, GF 0.7U REC (UG/L) (49302) | 2,4-DB WATER, FLTRD, GF 0.7U REC (UG/L) (38746)        | MCPA, WATER, FLTRD, GF 0.7U REC (UG/L) (38482)         | MCPB, WATER, FLTRD, GF 0.7U REC (UG/L) (38487)           | SILVEX, DIS-SOLVED (UG/L) (39762)                     | 2,4,5-T DIS-SOLVED (UG/L) (39742)                   |
| APR 18... | <0.035                                               | <0.035                                              | <0.002                                                | <0.001                                              | <0.035                                                     | <0.032                                                 | <0.035                                                 | <0.050                                                 | <0.035                                                   | <0.021                                                | <0.035                                              |
| DATE      | TRI-CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235) | BEN-FLUR-ALIN, WAT FLD 0.7 U (UG/L) (82673)         | ETHAL-FLUR-ALIN, WAT FLT 0.7 U (UG/L) (82663)         | ORY-ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292) | PENDI-METH-ALIN, WAT FLT 0.7 U (UG/L) (82683)              | TRI-FLUR-ALIN, WAT FLT 0.7 U (UG/L) (82661)            | CHLORO-THALO-NIL, WAT, FLT, GF 0.7U REC (UG/L) (49306) | DCPA WATER, FLTRD, GF 0.7 U (UG/L) (82682)             | DACTHAL MONO-ACID, WAT, FLT GF 0.7U REC (UG/L) (49304)   | P, P' DDE DISSOLV (UG/L) (34653)                      |                                                     |
| APR 18... | <0.050                                               | <0.002                                              | <0.004                                                | <0.019                                              | <0.004                                                     | <0.002                                                 | <0.002                                                 | <0.035                                                 | <0.002                                                   | <0.017                                                | <0.006                                              |

## WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## QUITMAN COUNTY--Continued

## 341020090080501 J056 CITY OF CROWDER--Continued

| DATE      | DICHLOR-<br>BENIL,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49303) | DI-<br>ELDRIN<br>DIS-<br>SOLVED<br>(UG/L)<br>(39381)                            | LINDANE<br>DIS-<br>SOLVED<br>(UG/L)<br>(39341)                           | METHYL<br>AZIN-<br>PHOS<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82686)     | CHLOR-<br>PYRIFOS<br>DIS-<br>SOLVED<br>(UG/L)<br>(38933)                     | DI-<br>AZINON,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39572)                         | DISUL-<br>FOTON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82677) | ETHO-<br>PROP<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82672)         | FOFONOS<br>DIS-<br>SOLVED<br>(UG/L)<br>(04095)                                 | MALA-<br>THION,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39532)                         | METHYL<br>PARA-<br>THION<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82667)   |
|-----------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| APR 18... | <0.020                                                                        | <0.001                                                                          | <0.004                                                                   | <0.001                                                                          | <0.004                                                                       | <0.002                                                                        | <0.017                                                                     | <0.003                                                                           | <0.003                                                                         | <0.005                                                                         | <0.006                                                                         |
| DATE      | PARA-<br>THION,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39542)                        | PHORATE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82664)              | TER-<br>BIFOS<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82675) | PER-<br>METHRIN<br>CIS<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82687)      | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632)                | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040)      | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)             | METRI-<br>BUZIN<br>WATER<br>FLTRD<br>DISSOLV<br>(UG/L)<br>(82630)                | PRO-<br>METON,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04037)                  | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035)                  | BRO-<br>MACIL,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04029)                  |
| APR 18... | <0.004                                                                        | <0.002                                                                          | <0.013                                                                   | <0.005                                                                          | <0.001                                                                       | <0.002                                                                        | <0.004                                                                     | <0.004                                                                           | <0.018                                                                         | <0.005                                                                         | <0.035                                                                         |
| DATE      | TER-<br>BACIL<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82665)     | FEN-<br>URON,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49297)         | DIURON,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49300)        | FLUO-<br>METURON<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(38811)      | LINURON<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(38478)            | LIN-<br>URON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82666)       | NEB-<br>URON,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49294)    | TEBU-<br>THIURON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82670)      | ACIFL-<br>UORFEN<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49315)     | BENTA-<br>ZON,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(38711)       | BRO-<br>MOXINIL<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49311)      |
| APR 18... | <0.007                                                                        | <0.013                                                                          | <0.020                                                                   | <0.035                                                                          | <0.018                                                                       | <0.002                                                                        | <0.015                                                                     | <0.010                                                                           | <0.035                                                                         | <0.014                                                                         | <0.035                                                                         |
| DATE      | CHLOR-<br>AMBEN,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49307)    | CLOPYR-<br>ALID,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49305)      | DICAMBA<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(38442)        | 2,6-DI-<br>ETHYL<br>ANILINE<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82660) | DINOSEB<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49301)            | DNOC<br>WAT,FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49299)                        | ESFEN-<br>VAL-<br>ERATE,<br>WAT,FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49298) | 1-NAPH-<br>THOL,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49295)       | NORFLUR<br>AZON,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49293)     | PIC-<br>LORAM,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49291)       | PRO-<br>PARGITE<br>WATER,<br>FLTRD<br>GF 0.7 U<br>GF, REC<br>(UG/L)<br>(82685) |
| APR 18... | <0.011                                                                        | <0.050                                                                          | <0.035                                                                   | <0.003                                                                          | <0.035                                                                       | <0.035                                                                        | <0.019                                                                     | <0.007                                                                           | <0.024                                                                         | <0.050                                                                         | <0.013                                                                         |
| DATE      | 1,2-<br>DIBROMO<br>ETHANE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77651)     | CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34311)                                 | 1,1-DI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34496)               | 1,2-DI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(32103)                      | 1,1,1-<br>TRI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34506)            | 1,1,2-<br>TRI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34511)             | FREON-<br>113<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77652)              | ETHANE,<br>1112-<br>TETRA-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(77652)     | ETHANE,<br>1,1,2,2<br>TETRA-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(34516) | ETHANE<br>HEXA-<br>CHLORO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(34396) | METHYL-<br>BROMIDE<br>TOTAL<br>(UG/L)<br>(34413)                               |
| APR 18... | <0.100                                                                        | <0.100                                                                          | <0.050                                                                   | <0.050                                                                          | <0.050                                                                       | <0.100                                                                        | <0.050                                                                     | <0.050                                                                           | <0.100                                                                         | <0.050                                                                         | <0.100                                                                         |
| DATE      | METHANE<br>BROMO<br>CHLORO-<br>WAT<br>UNFLTRD<br>REC<br>(UG/L)<br>(77297)     | DI-<br>CHLORO-<br>BROMO-<br>WATER<br>METHANE<br>TOTAL<br>(UG/L)<br>(32101)      | DI-<br>BROMO-<br>WATER<br>WHOLE<br>RECOVER<br>(UG/L)<br>(30217)          | BROMO-<br>FORM<br>TOTAL<br>(UG/L)<br>(32104)                                    | METHYL-<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(34418)                       | CHLORO-<br>DI-<br>BROMO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(32105)             | METHYL-<br>ENE<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(34423)              | DI-<br>CHLORO-<br>DI-<br>FLUORO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(34668)        | CHLORO-<br>FORM<br>TOTAL<br>(UG/L)<br>(32106)                                  | TRI-<br>CHLORO-<br>FLUORO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(34488)            | CARBON-<br>TETRA-<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(32102)               |
| APR 18... | <0.100                                                                        | <0.100                                                                          | <0.100                                                                   | <0.200                                                                          | V0.020                                                                       | <0.100                                                                        | <0.100                                                                     | <0.200                                                                           | <0.050                                                                         | <0.100                                                                         | <0.050                                                                         |
| DATE      | METHYL<br>IODIDE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77424)          | DIBROMO<br>CHLORO-<br>PROPANE<br>WATER<br>WHOLE<br>TOT.REC<br>(UG/L)<br>(82625) | 1,2-DI-<br>CHLORO-<br>PROPANE<br>TOTAL<br>(UG/L)<br>(34541)              | 1,3-DI-<br>CHLORO-<br>PROPANE<br>WAT. WH<br>TOTAL<br>(UG/L)<br>(77173)          | 2,2-DI-<br>CHLORO-<br>PRO-<br>PANE<br>WAT. WH<br>TOTAL<br>(UG/L)<br>(77170)  | 123-TRI<br>CHLORO-<br>PROPANE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77443) | HEXA-<br>CHLORO-<br>BUT-<br>ADIENE<br>TOTAL<br>(UG/L)<br>(39702)           | 2BUTENE<br>TRANS-1<br>4-DI-<br>CHLORO<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(73547) | BROMO-<br>ETHENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50002)           | VINYL<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(39175)                           | 1,1-DI-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(34501)              |
| APR 18... | <0.050                                                                        | <0.500                                                                          | <0.050                                                                   | <0.050                                                                          | <0.050                                                                       | <0.200                                                                        | <0.200                                                                     | <5.00                                                                            | <0.100                                                                         | <0.100                                                                         | <0.100                                                                         |
| DATE      | CIS-1,2<br>-DI-<br>CHLORO-<br>ETHENE<br>WATER<br>TOTAL<br>(UG/L)<br>(77093)   | 1,2-<br>TRANSDI<br>CHLORO-<br>ETHENE<br>TOTAL<br>(UG/L)<br>(34546)              | TRI-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(39180)           | TETRA-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(34475)                | PROPENE<br>3-<br>CHLORO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(78109) | 1,1-DI<br>CHLORO-<br>PRO-<br>PENE,<br>WAT, WH<br>TOTAL<br>(UG/L)<br>(77168)   | CIS<br>1,3-DI-<br>CHLORO-<br>PROPENE<br>TOTAL<br>(UG/L)<br>(34704)         | TRANS-<br>1,3-DI-<br>CHLORO-<br>PROPENE<br>TOTAL<br>(UG/L)<br>(34699)            | BENZENE<br>N-BUTYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77342)             | BENZENE<br>SEC<br>BUTYL-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77350)       | BENZENE<br>TERT-<br>BUTYL-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77353)     |
| APR 18... | <0.050                                                                        | <0.050                                                                          | <0.050                                                                   | <0.050                                                                          | <0.100                                                                       | <0.050                                                                        | <0.100                                                                     | <0.100                                                                           | <0.050                                                                         | <0.050                                                                         | <0.050                                                                         |

## QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

QUITMAN COUNTY--Continued

341020090080501 J056 CITY OF CROWDER--Continued

| DATE | ETHYL-<br>BENZENE<br>TOTAL<br>(UG/L)<br>(34371)                               | TOLUENE<br>TOTAL<br>(UG/L)<br>(34010)                                      | O-<br>XYLENE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77135)                  | META/<br>PARA-<br>XYLENE<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(85795)        | BENZENE<br>123-TRI<br>METHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77221) | BENZENE<br>124-TRI<br>METHYL<br>UNFLT<br>RECOVER<br>(UG/L)<br>(77222)           | BENZENE<br>135-TRI<br>METHYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77226)    | PREH-<br>NITENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(49999)                   | ISO-<br>DURENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50000)            | ISO-<br>PROPYL-<br>BENZENE<br>WATER<br>WHOLE<br>REC<br>(UG/L)<br>(77223)       | BENZENE<br>N-PROPY<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77224)                |
|------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|      | APR<br>18...                                                                  | <0.050                                                                     | <0.050                                                                        | <0.050                                                                          | <0.050                                                                            | <0.050                                                                          | <0.050                                                                          | <0.050                                                                                | <0.050                                                                        | <0.050                                                                         | <0.050                                                                            |
| DATE | TOLUENE<br>O-ETHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77220)        | P-ISO-<br>PROPYL-<br>TOLUENE<br>WATER<br>WHOLE<br>REC<br>(UG/L)<br>(77356) | BENZENE<br>TOTAL<br>(UG/L)<br>(34030)                                         | NAPHTH-<br>ALENE<br>TOTAL<br>(UG/L)<br>(34696)                                  | STYRENE<br>TOTAL<br>(UG/L)<br>(77128)                                             | ACETONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(81552)                         | ETHER<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81576)             | ETHER<br>TERT-<br>BUTYL<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50004) | METHYL<br>TERT-<br>BUTYL<br>ETHER<br>WAT UNF<br>REC<br>(UG/L)<br>(78032)      | ETHER<br>TERT-<br>PENTYL<br>METHYL-<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50005) | DI-ISO-<br>PROPYL-<br>ETHER,<br>WATER,<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81577) |
|      | APR<br>18...                                                                  | <0.050                                                                     | <0.050                                                                        | <0.050                                                                          | <0.200                                                                            | <0.050                                                                          | <5.00                                                                           | <0.100                                                                                | <0.100                                                                        | <0.100                                                                         | <0.100                                                                            |
| DATE | FURAN<br>TETRA-<br>HYDRO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81607) | 2-HEXA-<br>NONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77103)            | METHYL-<br>ISO-<br>BUTYL-<br>KETONE<br>WAT. WH.<br>TOTAL<br>(UG/L)<br>(78133) | METHYL-<br>ETHYL-<br>KETONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(81595)     | BROMO-<br>BENZENE<br>WATER,<br>WHOLE,<br>TOTAL<br>(UG/L)<br>(81555)               | CHLORO-<br>BENZENE<br>TOTAL<br>(UG/L)<br>(34301)                                | BENZENE<br>O-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34536)     | BENZENE<br>1,3-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34566)         | BENZENE<br>1,4-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34571) | 1,2,3-<br>TRI-<br>CHLORO-<br>BENZENE<br>WAT, WH<br>REC<br>(UG/L)<br>(77613)    | BENZENE<br>1,2,4-<br>TRI-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(34551)       |
|      | APR<br>18...                                                                  | <5.00                                                                      | <5.00                                                                         | <5.00                                                                           | <5.00                                                                             | <0.050                                                                          | <0.050                                                                          | <0.050                                                                                | <0.050                                                                        | <0.050                                                                         | <0.200                                                                            |
| DATE | O-<br>CHLORO-<br>TOLUENE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77275)      | TOLUENE<br>P-CHLOR<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77277)         | CARBON<br>DI.<br>SULFIDE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77041)      | METHAC-<br>RYLATE<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(73570) | METHYL<br>ACRY-<br>LATE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(49991)       | METH-<br>ACRYLO-<br>NITRITE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81593) | METHAC-<br>RYLATE<br>METHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81597) | ACRO-<br>LEIN<br>TOTAL<br>(UG/L)<br>(34210)                                           | ACRYLO-<br>NITRILE<br>TOTAL<br>(UG/L)<br>(34215)                              | ACETATE<br>VINYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77057)           |                                                                                   |
|      | APR<br>18...                                                                  | <0.050                                                                     | <0.050                                                                        | E0.007                                                                          | <1.00                                                                             | <2.00                                                                           | <2.00                                                                           | <1.00                                                                                 | <2.00                                                                         | <2.00                                                                          | <5.00                                                                             |

## WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## SHARKEY COUNTY

325438090521601 EO15 CITY OF ROLLING FORK

|       |                           | PUMP                        |                              |                            |                          |                              |                           |                            |                         |                                |                             |
|-------|---------------------------|-----------------------------|------------------------------|----------------------------|--------------------------|------------------------------|---------------------------|----------------------------|-------------------------|--------------------------------|-----------------------------|
|       |                           | GEO-LOGIC                   | DEPTH OF                     | OR FLOW                    | PERIOD                   |                              |                           | SAM-PLING                  | SAM-PLING               | WELL                           | SPE-CIFIC                   |
| DATE  | TIME                      | UNIT                        | WELL, TOTAL                  | TO SAM-PLING               | SAMPLE                   | SAMPLER                      | PLING                     | PLING                      | PURGING                 | CON-                           |                             |
|       |                           |                             | (FEET)                       | (MIN)                      | SOURCE                   | TYPE                         | CONDI-TION                | METHOD, CODES              | CONDI-TION              | DUCT-ANCE                      |                             |
|       |                           |                             | (72008)                      | (72004)                    | (72005)                  | (84164)                      | (72006)                   | (82398)                    | (84143)                 | (US/CM)                        |                             |
| APR   |                           |                             |                              |                            |                          |                              |                           |                            |                         |                                |                             |
| 10... | 1000                      | 124SPRT                     | 1039                         | 60                         | 47                       | 4040                         | 0.10                      | 4040                       | 160                     | 698                            |                             |
|       | PH                        |                             |                              |                            |                          |                              |                           |                            |                         |                                |                             |
|       | WATER                     |                             |                              |                            |                          |                              |                           |                            |                         |                                |                             |
|       | WHOLE                     |                             |                              |                            |                          |                              |                           |                            |                         |                                |                             |
|       | FIELD                     |                             |                              |                            |                          |                              |                           |                            |                         |                                |                             |
|       | (STAND-ARD                |                             |                              |                            |                          |                              |                           |                            |                         |                                |                             |
|       | UNITS)                    |                             |                              |                            |                          |                              |                           |                            |                         |                                |                             |
|       | (00400)                   |                             |                              |                            |                          |                              |                           |                            |                         |                                |                             |
| DATE  | TEMPER-ATURE              | OXYGEN, DIS-SOLVED          | CALCIUM DIS-SOLVED           | MAGNE-SIUM, DIS-SOLVED     | SODIUM, DIS-SOLVED       | POTAS-SIUM, DIS-SOLVED       | BICAR-BONATE              | ALKA-LINITY                | SULFATE                 |                                |                             |
|       | (DEG C)                   | (MG/L)                      | (AS CA)                      | (MG/L)                     | (MG/L)                   | (MG/L)                       | WATER                     | WAT DIS                    | DIS-                    |                                |                             |
|       | (00010)                   | (00300)                     | (00915)                      | (00925)                    | (00930)                  | (00935)                      | FIELD                     | FIELD                      | SOLVED                  |                                |                             |
|       |                           |                             |                              |                            |                          |                              | HCO3                      | MG/L AS                    | MG/L AS                 | (MG/L)                         |                             |
|       |                           |                             |                              |                            |                          |                              |                           | CAC03                      | CAC03                   | AS S04)                        |                             |
|       |                           |                             |                              |                            |                          |                              |                           | (39086)                    | (39086)                 | (00945)                        |                             |
| APR   |                           |                             |                              |                            |                          |                              |                           |                            |                         |                                |                             |
| 10... | 8.7                       | 26.0                        | 0.4                          | 0.24                       | 0.07                     | 170                          | 0.80                      | 438                        | 359                     | 0.40                           |                             |
|       | CHLO-RIDE, DIS-SOLVED     | FLUO-RIDE, DIS-SOLVED       | BROMIDE DIS-SOLVED           | SILICA, DIS-SOLVED         | SOLIDS, RESIDUE AT 180   | NITRO-GEN, NITRITE           | NITRO-GEN, NO2+NO3        | NITRO-GEN, AMMONIA         | NITRO-GEN, AM-          |                                |                             |
|       | (MG/L)                    | (MG/L)                      | (MG/L)                       | (MG/L)                     | DEG. C                   | DIS-SOLVED                   | DIS-SOLVED                | DIS-SOLVED                 | MONIA +                 |                                |                             |
|       | AS CL)                    | AS F)                       | AS BR)                       | AS SIO2)                   | (MG/L)                   | (MG/L)                       | (MG/L)                    | (MG/L)                     | ORGANIC                 |                                |                             |
|       | (00940)                   | (00950)                     | (71870)                      | (00955)                    | (70300)                  | (00613)                      | (00631)                   | (00608)                    | DIS-                    |                                |                             |
|       |                           |                             |                              |                            |                          |                              |                           |                            | (MG/L)                  |                                |                             |
|       |                           |                             |                              |                            |                          |                              |                           |                            | AS N)                   |                                |                             |
|       |                           |                             |                              |                            |                          |                              |                           |                            | AS N)                   |                                |                             |
|       |                           |                             |                              |                            |                          |                              |                           |                            | (00623)                 |                                |                             |
| APR   |                           |                             |                              |                            |                          |                              |                           |                            |                         |                                |                             |
| 10... | 16                        | 0.50                        | 0.060                        | 13                         | 426                      | <0.010                       | 0.120                     | 0.470                      | 0.60                    |                                |                             |
|       | PHOS-PHORUS               | PHOS-PHORUS                 | IRON, DIS-SOLVED             | MANGA-NESE, DIS-SOLVED     | H-2 / H-1                | O-18 / O-16                  | RN-222                    | CARBON, ORGANIC            |                         |                                |                             |
|       | ORTH, DIS-SOLVED          | ORTH, DIS-SOLVED            | (UG/L)                       | (UG/L)                     | STABLE ISOTOPE           | STABLE ISOTOPE               | 2 SIGMA                   | DIS-SOLVED                 |                         |                                |                             |
|       | (MG/L)                    | (MG/L)                      | (UG/L)                       | (UG/L)                     | RATIO                    | RATIO                        | WATER,                    | WAT, FLT                   |                         |                                |                             |
|       | AS P)                     | AS P)                       | AS FE)                       | AS MN)                     | PER                      | PER                          | WHOLE,                    | GF 0.7U                    |                         |                                |                             |
|       | (00666)                   | (00671)                     | (01046)                      | (01056)                    | MIL                      | MIL                          | TOTAL,                    | (PCI/L)                    |                         |                                |                             |
|       |                           |                             |                              |                            | (82082)                  | (82085)                      | (82303)                   | (76002)                    | (00681)                 |                                |                             |
|       |                           |                             |                              |                            |                          |                              |                           |                            |                         |                                |                             |
| APR   |                           |                             |                              |                            |                          |                              |                           |                            |                         |                                |                             |
| 10... | 0.390                     | 0.420                       | 11                           | <1.0                       | -25.1                    | -4.79                        | 78                        | 16                         | 3.3                     |                                |                             |
|       | ACETO-CHLOR, WATER, FLTRD | ALA-CHLOR, WATER, DISS, REC | METO-LACHLOR, WATER, DISSOLV | NAPPROP-AMIDE WATER, FLTRD | PRON-AMIDE WATER, FLTRD  | PROP-CHLOR, WATER, DISS, REC | PRO-PANIL, WATER, FLTRD   | ALDI-CARB, WATER, FLTRD    | ALDI-CARB, SULFONE      | ALDICA-RB SUL-FOXIDE, WAT, FLT | BUTYL-ATE, WATER, DISS, REC |
|       | REC                       | REC                         | GF, REC                      | GF, REC                    | GF, REC                  | GF, REC                      | GF, REC                   | GF, REC                    | GF, REC                 | GF, REC                        | GF, REC                     |
|       | (UG/L)                    | (UG/L)                      | (UG/L)                       | (UG/L)                     | (UG/L)                   | (UG/L)                       | (UG/L)                    | (UG/L)                     | (UG/L)                  | (UG/L)                         | (UG/L)                      |
|       | (49260)                   | (46342)                     | (39415)                      | (82684)                    | (82676)                  | (04024)                      | (82679)                   | (49312)                    | (49313)                 | (49314)                        | (04028)                     |
| DATE  |                           |                             |                              |                            |                          |                              |                           |                            |                         |                                |                             |
| APR   |                           |                             |                              |                            |                          |                              |                           |                            |                         |                                |                             |
| 10... | <0.002                    | <0.002                      | <0.002                       | <0.003                     | <0.003                   | <0.007                       | <0.004                    | <0.016                     | <0.016                  | <0.021                         | <0.002                      |
|       | CAR-BARYL, WATER, FLTRD   | CAR-BARYL, WATER, FLTRD     | CARBO-FURAN, WATER, FLTRD    | CARBO-FURAN, WATER, FLTRD  | 3HYDRXY CARBO-WAT, FLT   | EPTC WATER, FLTRD            | METHIO-CARB, WATER, FLTRD | METH-OMYL, WATER, FLTRD    | MOL-INATE, WATER, FLTRD | OXAMYL, WATER, FLTRD           | PEB-ULATE, WATER, FLTRD     |
|       | GF 0.7U                   | GF 0.7U                     | GF 0.7U                      | GF 0.7U                    | GF 0.7U                  | GF 0.7U                      | GF 0.7U                   | GF 0.7U                    | GF 0.7U                 | GF 0.7U                        | GF 0.7U                     |
|       | REC                       | GF, REC                     | REC                          | GF, REC                    | REC                      | GF, REC                      | REC                       | REC                        | GF, REC                 | REC                            | GF, REC                     |
|       | (UG/L)                    | (UG/L)                      | (UG/L)                       | (UG/L)                     | (UG/L)                   | (UG/L)                       | (UG/L)                    | (UG/L)                     | (UG/L)                  | (UG/L)                         | (UG/L)                      |
|       | (49310)                   | (82680)                     | (49309)                      | (82674)                    | (49308)                  | (82668)                      | (38501)                   | (49296)                    | (82671)                 | (38866)                        | (82669)                     |
| DATE  |                           |                             |                              |                            |                          |                              |                           |                            |                         |                                |                             |
| APR   |                           |                             |                              |                            |                          |                              |                           |                            |                         |                                |                             |
| 10... | <0.008                    | <0.003                      | <0.028                       | <0.003                     | <0.014                   | <0.002                       | <0.026                    | <0.017                     | <0.004                  | <0.018                         | <0.004                      |
|       | PRO-PHAM, WATER, FLTRD    | PRO-POXUR, WATER, FLTRD     | THIO-BENCARB, WATER, FLTRD   | TRIAL-LATE WATER, FLTRD    | 2,4-D, DIS-SOLVED        | DICHLOR PROP, WATER, FLTRD   | 2,4-DB WATER, FLTRD       | MCPA, WATER, FLTRD         | MCPB, WATER, FLTRD      | SILVEX, DIS-SOLVED             | 2,4,5-T DIS-SOLVED          |
|       | GF 0.7U                   | GF 0.7U                     | GF 0.7U                      | GF 0.7U                    | GF 0.7U                  | GF 0.7U                      | GF 0.7U                   | GF 0.7U                    | GF 0.7U                 | GF 0.7U                        | GF 0.7U                     |
|       | REC                       | REC                         | GF, REC                      | GF, REC                    | REC                      | REC                          | REC                       | REC                        | REC                     | REC                            | REC                         |
|       | (UG/L)                    | (UG/L)                      | (UG/L)                       | (UG/L)                     | (UG/L)                   | (UG/L)                       | (UG/L)                    | (UG/L)                     | (UG/L)                  | (UG/L)                         | (UG/L)                      |
|       | (49236)                   | (38538)                     | (82681)                      | (82678)                    | (39732)                  | (49302)                      | (38746)                   | (38482)                    | (38487)                 | (39762)                        | (39742)                     |
| DATE  |                           |                             |                              |                            |                          |                              |                           |                            |                         |                                |                             |
| APR   |                           |                             |                              |                            |                          |                              |                           |                            |                         |                                |                             |
| 10... | <0.035                    | <0.035                      | <0.002                       | <0.001                     | <0.035                   | <0.032                       | <0.035                    | <0.050                     | <0.035                  | <0.021                         | <0.035                      |
|       | TRI-CLOPYR, WATER, FLTRD  | BEN-FLUR-ALIN, WAT FLD      | ETHAL-FLUR-ALIN, WAT FLT     | ORY-ZALIN, WATER, FLTRD    | PENDI-METH-ALIN, WAT FLT | TRI-FLUR-ALIN, WAT FLT       | ALPHA BHC                 | CHLORO-THALO-NIL, WAT, FLT | DCPA WATER, FLTRD       | DACTHAL MONO-ACID, WAT, FLT    | P, P' DDE                   |
|       | GF 0.7U                   | GF 0.7U                     | GF 0.7U                      | GF 0.7U                    | GF 0.7U                  | GF 0.7U                      | DIS-                      | GF 0.7U                    | GF 0.7U                 | GF 0.7U                        | DISSOLV                     |
|       | REC                       | GF, REC                     | GF, REC                      | REC                        | GF, REC                  | GF, REC                      | SOLVED                    | REC                        | GF, REC                 | REC                            | DISSOLV                     |
|       | (UG/L)                    | (UG/L)                      | (UG/L)                       | (UG/L)                     | (UG/L)                   | (UG/L)                       | (UG/L)                    | (UG/L)                     | (UG/L)                  | (UG/L)                         | (UG/L)                      |
|       | (49235)                   | (82673)                     | (82663)                      | (49292)                    | (82683)                  | (82661)                      | (34253)                   | (49306)                    | (82682)                 | (49304)                        | (34653)                     |
| DATE  |                           |                             |                              |                            |                          |                              |                           |                            |                         |                                |                             |
| APR   |                           |                             |                              |                            |                          |                              |                           |                            |                         |                                |                             |
| 10... | <0.050                    | <0.002                      | <0.004                       | <0.019                     | <0.004                   | <0.002                       | <0.002                    | <0.035                     | <0.002                  | <0.017                         | <0.006                      |

## QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

SHARKEY COUNTY--Continued

325438090521601 E015 CITY OF ROLLING FORK--Continued

| DATE         | DICHLOR-<br>BENIL,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49303) | DI-<br>ELDRIN<br>DIS-<br>SOLVED<br>(UG/L)<br>(39381)                             | LINDANE<br>DIS-<br>SOLVED<br>(UG/L)<br>(39341)                             | METHYL<br>AZIN-<br>PHOS<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82686)     | CHLOR-<br>PYRIFOS<br>DIS-<br>SOLVED<br>(UG/L)<br>(38933)                    | DI-<br>AZINON,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39572)                          | DISUL-<br>FOTON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82677) | ETHO-<br>PROP<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82672)         | FONOFOS<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(04095)                           | MALA-<br>THION,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39532)                     | METHYL<br>PARA-<br>THION<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82667) |
|--------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------|
| APR<br>10... | <0.020                                                                        | <0.001                                                                           | <0.004                                                                     | <0.001                                                                          | <0.004                                                                      | <0.002                                                                         | <0.017                                                                     | <0.003                                                                           | <0.003                                                                         | <0.005                                                                     | <0.006                                                                       |
| DATE         | PARA-<br>THION,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39542)                        | PHORATE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82664)               | TER-<br>BUFOS<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82675)   | PER-<br>METHRIN<br>CIS<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82687)      | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632)               | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040)       | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)             | METRI-<br>BUZIN<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82630)       | PRO-<br>METON,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04037)                  | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035)              | BRO-<br>MACIL,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04029)                |
| APR<br>10... | <0.004                                                                        | <0.002                                                                           | <0.013                                                                     | <0.005                                                                          | <0.001                                                                      | <0.002                                                                         | <0.004                                                                     | <0.004                                                                           | <0.018                                                                         | <0.005                                                                     | <0.035                                                                       |
| DATE         | TER-<br>BACIL<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82665)      | FEN-<br>URON,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49297)        | DIURON,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49300)        | FLUO-<br>METURON<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(38811)    | LINURON<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(38478)         | LIN-<br>URON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82666)        | NEB-<br>URON,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49294)  | TEBU-<br>THIURON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82670)      | ACIFL-<br>UORFEN<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49315)   | BENTA-<br>ZON,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(38711) | BRO-<br>MOXYNIL<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49311)  |
| APR<br>10... | <0.007                                                                        | <0.013                                                                           | <0.020                                                                     | <0.035                                                                          | <0.018                                                                      | <0.002                                                                         | <0.015                                                                     | <0.010                                                                           | <0.035                                                                         | <0.014                                                                     | <0.035                                                                       |
| DATE         | CHLOR-<br>AMBEN,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49307)    | CLOPYR-<br>ALID,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49305)       | DICAMBA<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(38442)          | 2,6-DI-<br>ETHYL<br>ANILINE<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82660) | DINOSEB<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49301)           | DNOC<br>WAT,FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49299)                         | ESFEN-<br>VAL-<br>ERATE,<br>WAT,FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49298) | 1-NAPH-<br>THOL,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49295)       | NORFLUR<br>AZON,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49293)     | PIC-<br>LORAM,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49291)   | PRO-<br>PARGITE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82685)   |
| APR<br>10... | <0.011                                                                        | <0.050                                                                           | <0.035                                                                     | <0.003                                                                          | <0.035                                                                      | <0.035                                                                         | <0.019                                                                     | <0.007                                                                           | <0.024                                                                         | <0.050                                                                     | <0.013                                                                       |
| DATE         | 1,2-<br>DIBROMO<br>ETHANE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77651)     | CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34311)                                  | 1,1-DI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34496)                 | 1,2-DI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(32103)                      | 1,1,1-<br>TRI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34506)           | 1,1,2-<br>TRI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34511)              | FREON-<br>113<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77652)              | ETHANE,<br>1112-<br>TETRA-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(77562)     | ETHANE,<br>1,1,2,2<br>TETRA-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(34516) | ETHANE<br>HEXA-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(34396)          | METHYL-<br>BROMIDE<br>TOTAL<br>(UG/L)<br>(34413)                             |
| APR<br>10... | <0.100                                                                        | <0.100                                                                           | <0.050                                                                     | <0.050                                                                          | <0.050                                                                      | <0.100                                                                         | <0.050                                                                     | <0.050                                                                           | <0.100                                                                         | <0.050                                                                     | <0.100                                                                       |
| DATE         | METHANE<br>BROMO<br>CHLORO-<br>WAT<br>UNFLTRD<br>REC<br>(UG/L)<br>(77297)     | DI-<br>CHLORO-<br>BROMO-<br>WAT<br>UNFLTRD<br>TOTAL<br>(UG/L)<br>(32101)         | DI-<br>BROMO-<br>METHANE<br>WATER<br>WHOLE<br>RECOVER<br>(UG/L)<br>(30217) | BROMO-<br>FORM<br>TOTAL<br>(UG/L)<br>(32104)                                    | METHYL-<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(34418)                      | CHLORO-<br>DI-<br>BROMO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(32105)              | METHYL-<br>ENE<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(34423)              | DI-<br>CHLORO-<br>DI-<br>FLUORO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(34668)        | CHLORO-<br>FORM<br>TOTAL<br>(UG/L)<br>(32106)                                  | TRI-<br>CHLORO-<br>FLUORO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(34488)        | CARBON-<br>TETRA-<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(32102)             |
| APR<br>10... | <0.100                                                                        | <0.100                                                                           | <0.100                                                                     | <0.200                                                                          | VO.020                                                                      | <0.100                                                                         | <0.100                                                                     | <0.200                                                                           | <0.050                                                                         | <0.100                                                                     | <0.050                                                                       |
| DATE         | METHYL<br>IODIDE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77424)          | DIBROMO<br>CHLORO-<br>PROPANE<br>WATER<br>WHOLE<br>TOT. REC<br>(UG/L)<br>(82625) | 1,2-DI-<br>CHLORO-<br>PROPANE<br>WAT. WH<br>TOTAL<br>(UG/L)<br>(34541)     | 1,3-DI-<br>CHLORO-<br>PROPANE<br>WAT. WH<br>TOTAL<br>(UG/L)<br>(77173)          | 2,2-DI-<br>CHLORO-<br>PRO-<br>PANE<br>WAT. WH<br>TOTAL<br>(UG/L)<br>(77170) | 123-TRI-<br>CHLORO-<br>PROPANE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77443) | HEXA-<br>CHLORO-<br>BUT-<br>ADIENE<br>TOTAL<br>(UG/L)<br>(39702)           | 2BUTENE<br>TRANS-1<br>4-DI-<br>CHLORO<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(73547) | BROMO-<br>ETHENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50002)           | VINYL<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(39175)                       | 1,1-DI-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(34501)            |
| APR<br>10... | <0.050                                                                        | <0.500                                                                           | <0.050                                                                     | <0.050                                                                          | <0.050                                                                      | <0.200                                                                         | <0.200                                                                     | <5.00                                                                            | <0.100                                                                         | <0.100                                                                     | <0.100                                                                       |
| DATE         | CIS-1,2<br>-DI-<br>CHLORO-<br>ETHENE<br>WATER<br>TOTAL<br>(UG/L)<br>(77093)   | 1,2-<br>TRANS-<br>DI-<br>CHLORO-<br>ETHENE<br>TOTAL<br>(UG/L)<br>(34546)         | TRI-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(39180)             | TETRA-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(34475)                | PROPENE<br>3-<br>CHLORO-<br>WATER<br>UNFLTRD<br>TOTAL<br>(UG/L)<br>(78109)  | 1,1-DI-<br>CHLORO-<br>PRO-<br>PENE,<br>WAT. WH<br>TOTAL<br>(UG/L)<br>(77168)   | CIS<br>1,3-DI-<br>CHLORO-<br>PROPENE<br>TOTAL<br>(UG/L)<br>(34704)         | TRANS-<br>1,3-DI-<br>CHLORO-<br>PROPENE<br>TOTAL<br>(UG/L)<br>(34699)            | BENZENE<br>N-BUTYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77342)             | BENZENE<br>SEC<br>BUTYL-<br>WATER<br>UNFLTRD<br>TOTAL<br>(UG/L)<br>(77350) | BENZENE<br>TERT-<br>BUTYL-<br>WATER<br>UNFLTRD<br>TOTAL<br>(UG/L)<br>(77353) |
| APR<br>10... | <0.050                                                                        | <0.050                                                                           | <0.050                                                                     | <0.050                                                                          | <0.100                                                                      | <0.050                                                                         | <0.100                                                                     | <0.100                                                                           | <0.050                                                                         | <0.050                                                                     | <0.050                                                                       |

## QUALITY OF GROUND WATER

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WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

SHARKEY COUNTY--Continued

325438090521601 E015 CITY OF ROLLING FORK--Continued

| DATE         | ETHYL-<br>BENZENE<br>TOTAL<br>(UG/L)<br>(34371)                               | TOLUENE<br>TOTAL<br>(UG/L)<br>(34010)                                      | O-<br>XYLENE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77135)                  | METHA/<br>PARA-<br>XYLENE<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(85795)       | BENZENE<br>123-TRI<br>METHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77221) | BENZENE<br>124-TRI<br>METHYL<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77222)         | BENZENE<br>135-TRI<br>METHYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77226)    | PREH-<br>NITENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(49999)                   | ISO-<br>DURENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50000)            | ISO-<br>PROPYL-<br>BENZENE<br>WATER<br>WHOLE<br>REC<br>(UG/L)<br>(77223)                   | BENZENE<br>N-PROPY<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77224)                     |
|--------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| APR<br>10... | <0.050                                                                        | <0.050                                                                     | <0.050                                                                        | <0.050                                                                          | <0.050                                                                            | E0.010                                                                          | <0.050                                                                          | <0.050                                                                                | <0.050                                                                        | <0.050                                                                                     | <0.050                                                                                 |
| DATE         | TOLUENE<br>O-ETHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77220)        | P-ISO-<br>PROPYL-<br>TOLUENE<br>WATER<br>WHOLE<br>REC<br>(UG/L)<br>(77356) | BENZENE<br>TOTAL<br>(UG/L)<br>(34030)                                         | NAPHTH-<br>ALENE<br>TOTAL<br>(UG/L)<br>(34696)                                  | STYRENE<br>TOTAL<br>(UG/L)<br>(77128)                                             | ACETONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(81552)                         | ETHER<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81576)             | ETHER<br>TERT-<br>BUTYL<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50004) | METHYL<br>TERT-<br>BUTYL<br>ETHER<br>WAT UNF<br>REC<br>(UG/L)<br>(78032)      | ETHER<br>DI-ISO-<br>PROPYL-<br>ETHER,<br>WATER,<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50005) | DI-ISO-<br>PROPYL-<br>ETHER,<br>WATER,<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81577)      |
| APR<br>10... | <0.050                                                                        | <0.050                                                                     | <0.050                                                                        | <0.200                                                                          | <0.050                                                                            | <5.00                                                                           | <0.100                                                                          | <0.100                                                                                | <0.100                                                                        | <0.100                                                                                     | <0.100                                                                                 |
| DATE         | FURAN<br>TETRA-<br>HYDRO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81607) | 2-HEXA-<br>NONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77103)            | METHYL-<br>ISO-<br>BUTYL-<br>KETONE<br>WAT. WH.<br>TOTAL<br>(UG/L)<br>(78133) | METHYL-<br>ETHYL-<br>KETONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(81595)     | BROMO-<br>BENZENE<br>WATER,<br>WHOLE,<br>TOTAL<br>(UG/L)<br>(81555)               | CHLORO-<br>BENZENE<br>TOTAL<br>(UG/L)<br>(34301)                                | BENZENE<br>O-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34536)     | BENZENE<br>1,3-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34566)         | BENZENE<br>1,4-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34571) | 1,2,3-<br>TRI-<br>CHLORO-<br>BENZENE<br>WAT, WH<br>REC<br>(UG/L)<br>(77613)                | BENZENE<br>1,2,4-<br>TRI-<br>CHLORO-<br>BENZENE<br>WAT UNF<br>REC<br>(UG/L)<br>(34551) |
| APR<br>10... | <5.00                                                                         | <5.00                                                                      | <5.00                                                                         | 1.00                                                                            | <0.050                                                                            | <0.050                                                                          | <0.050                                                                          | <0.050                                                                                | <0.050                                                                        | <0.200                                                                                     | <0.200                                                                                 |
| DATE         | O-<br>CHLORO-<br>TOLUENE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77275)      | TOLUENE<br>P-CHLOR<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77277)         | CARBON<br>DI.<br>SULFIDE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77041)      | METHAC-<br>RYLATE<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(73570) | METHYL<br>ACRY-<br>LATE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(49991)       | METH-<br>ACRYLO-<br>NITRITE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81593) | METHAC-<br>RYLATE<br>METHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81597) | ACRO-<br>LEIN<br>TOTAL<br>(UG/L)<br>(34210)                                           | ACRYLO-<br>NITRILE<br>TOTAL<br>(UG/L)<br>(34215)                              | ACETATE<br>VINYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77057)                       |                                                                                        |
| APR<br>10... | <0.050                                                                        | <0.050                                                                     | E0.050                                                                        | <1.00                                                                           | <2.00                                                                             | <2.00                                                                           | <1.00                                                                           | <2.00                                                                                 | <2.00                                                                         | <5.00                                                                                      |                                                                                        |



## QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## TALLAHATCHIE COUNTY

335623090201801 J020 CITY OF WEBB

|           |                                                     |                                                    |                                                     | PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)     |                                                            |                                                       |                                                      |                                                          |                                                          | SPE-CIFIC CON-DUCT-ANCE (US/CM)                           |                                                 |
|-----------|-----------------------------------------------------|----------------------------------------------------|-----------------------------------------------------|--------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------|
| DATE      | TIME                                                | GEO-LOGIC UNIT                                     | DEPTH OF WELL, TOTAL (FEET) (72008)                 | TO SAM-PLING (MIN)                               | SAMPLE SOURCE (72005)                                      | SAMPLER TYPE (CODE) (84164)                           | SAM-PLING CONDI-TION (72006)                         | SAM-PLING METHOD, CODES (82398)                          | WELL PURGING CONDI-TION (CODE) (84143)                   |                                                           | (00095)                                         |
| APR 17... | 1400                                                | 124TLLT                                            | 816.00                                              | 60                                               | 1                                                          | 4040                                                  | 0.10                                                 | 4040                                                     | 160                                                      | 471                                                       |                                                 |
| DATE      | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)      | TEMPER-ATURE WATER (DEG C) (00010)                 | OXYGEN, DIS-SOLVED (MG/L) (00300)                   | CALCIUM DIS-SOLVED (MG/L) (00915)                | MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)                      | SODIUM, DIS-SOLVED (MG/L) (00930)                     | POTAS-SIUM, DIS-SOLVED (MG/L) (00935)                | BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3 (00453)    | ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACLO3 (39086) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945)                  |                                                 |
| APR 17... | 7.8                                                 | 22.5                                               | <0.1                                                | 0.43                                             | 0.18                                                       | 110                                                   | 1.9                                                  | 261                                                      | 214                                                      | 0.30                                                      |                                                 |
| DATE      | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)          | FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)          | BROMIDE DIS-SOLVED (MG/L AS BR) (71870)             | SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)        | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L AS) (70300) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)     | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)    | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)        | NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)    |                                                           |                                                 |
| APR 17... | 15                                                  | 0.20                                               | 0.080                                               | 41                                               | 298                                                        | <0.010                                                | 0.120                                                | 0.580                                                    | 0.70                                                     |                                                           |                                                 |
| DATE      | PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)          | PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)  | IRON, DIS-SOLVED (UG/L AS BR) (01046)               | MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)      | RADON 222 TOTAL (PCI/L) (82303)                            | RN-222 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L) (76002)   | TRITIUM 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L) (07000) | TRITIUM 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L) (75985)     | CARBON, DIS-SOLVED (MG/L AS C) (00681)                   |                                                           |                                                 |
| APR 17... | 0.380                                               | 0.400                                              | 130                                                 | 9.0                                              | 84                                                         | 19                                                    | <1.0                                                 | 1.0                                                      | 0.60                                                     |                                                           |                                                 |
| DATE      | ACETO-CHLOR, WATER, FLTRD REC (UG/L) (49260)        | ALA-CHLOR, WATER, DISS, REC (UG/L) (46342)         | METO-LACHLOR, WATER, DISSOLV GF, REC (UG/L) (39415) | NAPROP-AMIDE WATER, FLTRD 0.7 U (UG/L) (82684)   | PRON-AMIDE WATER, FLTRD 0.7 U (UG/L) (82676)               | PROP-CHLOR, WATER, DISS, REC (UG/L) (04024)           | PRO-PANIL, WATER, FLTRD 0.7 U GF, REC (UG/L) (82679) | ALDI-CARB, WATER, FLTRD 0.7 U GF 0.7U REC (UG/L) (49312) | ALDI-CARB, SULFONE WAT, FLT GF 0.7U REC (UG/L) (49313)   | ALDICA-RB SUL-FOXIDE, WAT, FLT GF 0.7U REC (UG/L) (49314) | BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)      |
| APR 17... | <0.002                                              | <0.002                                             | <0.002                                              | <0.003                                           | <0.003                                                     | <0.007                                                | <0.004                                               | <0.016                                                   | <0.016                                                   | <0.021                                                    | <0.002                                          |
| DATE      | CAR-BARYL, WATER, FLTRD GF 0.7U REC (UG/L) (49310)  | CAR-BARYL, WATER, FLTRD GF, REC (UG/L) (82680)     | CARBO-FURAN, WATER, FLTRD GF, REC (UG/L) (49309)    | CARBO-FURAN, WATER, FLTRD GF, REC (UG/L) (82674) | 3HYDRXY CARBO-FURAN, WAT, FLT GF 0.7U REC (UG/L) (49308)   | EPTC WATER, FLTRD GF, REC (UG/L) (82668)              | METHIO-CARB, WATER, FLTRD GF 0.7U REC (UG/L) (38501) | METH-OMYL, WATER, FLTRD GF 0.7U REC (UG/L) (49296)       | MOL-INATE, WATER, FLTRD 0.7 U GF, REC (UG/L) (82671)     | OXAMYL, WATER, FLTRD GF 0.7U REC (UG/L) (38866)           | PEB-ULATE, WATER, FILTRD GF, REC (UG/L) (82669) |
| APR 17... | <0.008                                              | <0.003                                             | <0.028                                              | <0.003                                           | <0.014                                                     | <0.002                                                | <0.026                                               | <0.017                                                   | <0.004                                                   | <0.018                                                    | <0.004                                          |
| DATE      | PRO-PHAM, WATER, FLTRD GF 0.7U REC (UG/L) (49236)   | PRO-POKUR, WATER, FLTRD GF 0.7U REC (UG/L) (38538) | THIO-BENCARB, WATER, FLTRD GF, REC (UG/L) (82681)   | TRIAL-LATE WATER, FLTRD GF, REC (UG/L) (82678)   | 2,4-D, DIS-SOLVED (UG/L) (39732)                           | DICHLOR PROP, WATER, FLTRD GF 0.7U REC (UG/L) (49302) | 2,4-DB WATER, FLTRD GF 0.7U REC (UG/L) (38746)       | MCPA, WATER, FLTRD GF 0.7U REC (UG/L) (38482)            | MCPB, WATER, FLTRD GF 0.7U REC (UG/L) (38487)            | SILVEX, DIS-SOLVED (UG/L) (39762)                         | 2,4,5-T DIS-SOLVED (UG/L) (39742)               |
| APR 17... | <0.035                                              | <0.035                                             | <0.002                                              | <0.001                                           | <0.035                                                     | <0.032                                                | <0.035                                               | <0.050                                                   | <0.035                                                   | <0.021                                                    | <0.035                                          |
| DATE      | TRI-CLOPYR, WATER, FLTRD GF 0.7U REC (UG/L) (49235) | BEN-FLUR-ALIN, WAT FLD GF, REC (UG/L) (82673)      | ETHAL-FLUR-ALIN, WAT FLT GF, REC (UG/L) (82663)     | ORY-ZALIN, WATER, FLTRD GF, REC (UG/L) (49292)   | PENDI-METH-ALIN, WAT FLT GF, REC (UG/L) (82683)            | TRI-FLUR-ALIN, WAT FLT GF, REC (UG/L) (82661)         | ALPHA BHC DIS-SOLVED (UG/L) (34253)                  | CHLORO-THALO-NIL, WAT, FLT GF 0.7U REC (UG/L) (49306)    | DCPA, WATER, FLTRD GF, REC (UG/L) (82682)                | DACTHAL MONO-ACID, WAT, FLT GF 0.7U REC (UG/L) (49304)    | P,P'-DDE DISSOLV (UG/L) (34653)                 |
| APR 17... | <0.050                                              | <0.002                                             | <0.004                                              | <0.019                                           | <0.004                                                     | <0.002                                                | <0.002                                               | <0.035                                                   | <0.002                                                   | <0.017                                                    | <0.006                                          |

## QUALITY OF GROUND WATER

301

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

TALLAHATCHIE COUNTY--Continued

335623090201801 J020 CITY OF WEBB--Continued

| DATE      | DICHLOR-<br>BENIL,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49303) | DI-<br>ELDRIN<br>DIS-<br>SOLVED<br>(UG/L)<br>(39381)                            | LINDANE<br>DIS-<br>SOLVED<br>(UG/L)<br>(39341)                             | METHYL<br>AZIN-<br>PHOS<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82686)     | CHLOR-<br>PYRIFOS<br>DIS-<br>SOLVED<br>(UG/L)<br>(38933)                     | DI-<br>AZINON,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39572)                         | DISUL-<br>FOTON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82677) | ETHO-<br>PROP<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82672)                   | PHONOFOS<br>WATER<br>DIS-<br>REC<br>(UG/L)<br>(04095)                          | MALA-<br>THION,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39532)                         | METHYL<br>PARA-<br>THION<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82667) |
|-----------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| APR 17... | <0.020                                                                        | <0.001                                                                          | <0.004                                                                     | <0.001                                                                          | <0.004                                                                       | <0.002                                                                        | <0.017                                                                     | <0.003                                                                                     | <0.003                                                                         | <0.005                                                                         | <0.006                                                                       |
| DATE      | PARA-<br>THION,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39542)                        | PHORATE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82664)              | TER-<br>BUFOS<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82675)   | PER-<br>METHRIN<br>CIS<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82687)      | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632)                | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040)      | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)             | METRI-<br>BUZIN<br>SENCOR<br>WATER,<br>DISSOLV<br>REC<br>(UG/L)<br>(82630)                 | PRO-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04037)                 | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035)                  | BRO-<br>MACIL,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04029)                |
| APR 17... | <0.004                                                                        | <0.002                                                                          | <0.013                                                                     | <0.005                                                                          | <0.001                                                                       | <0.002                                                                        | <0.004                                                                     | <0.004                                                                                     | <0.018                                                                         | <0.005                                                                         | <0.035                                                                       |
| DATE      | TER-<br>BACIL<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82665)      | FEN-<br>URON,<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49297)        | DIURON,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49300)        | FLUO-<br>METURON<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(38811)    | LINURON<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(38478)          | LIN-<br>URON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82666)       | NEB-<br>URON,<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49294)   | TEBU-<br>THIURON<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82670)               | ACIFL-<br>UORFEN<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49315)   | BENTA-<br>ZON,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(38711)     | BRO-<br>MOXYNIL<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49311)  |
| APR 17... | <0.007                                                                        | <0.013                                                                          | <0.020                                                                     | <0.035                                                                          | <0.018                                                                       | <0.002                                                                        | <0.015                                                                     | <0.010                                                                                     | <0.035                                                                         | <0.014                                                                         | <0.035                                                                       |
| DATE      | CHLOR-<br>AMEN,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49307)     | CLOPYR-<br>ALID,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49305)      | DICAMBA<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(38442)          | 2,6-DI-<br>ETHYL<br>ANILINE<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82660) | DINOSEB<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49301)            | DNOC<br>WAT,FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49299)                        | ESFEN-<br>VAL-<br>ERATE,<br>WAT,FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49298) | 1-NAPH-<br>THOL,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49295)                 | NORFLUR<br>AZON,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49293)     | PIC-<br>LORAM,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49291)       | PRO-<br>PARGITE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82685)   |
| APR 17... | <0.011                                                                        | <0.050                                                                          | <0.035                                                                     | <0.003                                                                          | <0.035                                                                       | <0.035                                                                        | <0.019                                                                     | <0.007                                                                                     | <0.024                                                                         | <0.050                                                                         | <0.013                                                                       |
| DATE      | 1,2-<br>DIBROMO<br>ETHANE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77651)     | CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34311)                                 | 1,1-DI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34496)                 | 1,2-DI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(32103)                      | 1,1,1-<br>TRI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34506)            | 1,1,2-<br>TRI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34511)             | FREON-<br>113<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77652)              | ETHANE,<br>1112-<br>TETRA-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(77562)               | ETHANE,<br>1,1,2,2<br>TETRA-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(34516) | ETHANE<br>CHLORO-<br>WATER<br>UNFLTRD<br>RECOVER<br>TOTAL<br>(UG/L)<br>(34396) | METHYL-<br>BROMIDE<br>TOTAL<br>(UG/L)<br>(34413)                             |
| APR 17... | <0.100                                                                        | <0.100                                                                          | <0.050                                                                     | <0.050                                                                          | <0.050                                                                       | <0.100                                                                        | <0.050                                                                     | <0.050                                                                                     | <0.100                                                                         | <0.050                                                                         | <0.100                                                                       |
| DATE      | METHANE<br>BROMO<br>CHLORO-<br>WAT<br>UNFLTRD<br>REC<br>(UG/L)<br>(77297)     | DI-<br>CHLORO-<br>BROMO-<br>WAT<br>METHANE<br>TOTAL<br>(UG/L)<br>(32101)        | DI-<br>BROMO-<br>METHANE<br>WATER<br>WHOLE<br>RECOVER<br>(UG/L)<br>(30217) | BROMO-<br>FORM<br>TOTAL<br>(UG/L)<br>(32104)                                    | METHYL-<br>DI-<br>BROMO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(34418)               | CHLORO-<br>DI-<br>BROMO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(32105)             | METHYL-<br>ENE<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(34423)              | DI-<br>CHLORO-<br>DI-<br>FLUORO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(34668)                  | CHLORO-<br>FORM<br>TOTAL<br>(UG/L)<br>(32106)                                  | TRI-<br>CHLORO-<br>CHLO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(34488)              | CARBON-<br>TETRA-<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(32102)             |
| APR 17... | <0.100                                                                        | <0.100                                                                          | <0.100                                                                     | <0.200                                                                          | <0.200                                                                       | <0.100                                                                        | <0.100                                                                     | <0.200                                                                                     | <0.050                                                                         | <0.100                                                                         | <0.050                                                                       |
| DATE      | METHYL<br>IODIDE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77424)          | DIBROMO<br>CHLORO-<br>PROPANE<br>WATER<br>WHOLE<br>TOT.REC<br>(UG/L)<br>(82625) | 1,2-DI-<br>CHLORO-<br>PROPANE<br>WAT. WH<br>TOTAL<br>(UG/L)<br>(34541)     | 1,3-DI-<br>CHLORO-<br>PROPANE<br>WAT. WH<br>TOTAL<br>(UG/L)<br>(77173)          | 2,2-DI-<br>CHLORO-<br>PRO-<br>PANE<br>WAT. WH<br>TOTAL<br>(UG/L)<br>(77170)  | 123-TRI<br>CHLORO-<br>PROPANE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77443) | HEXA-<br>CHLORO-<br>BUT-<br>ADIENE<br>TOTAL<br>(UG/L)<br>(39702)           | 2BUTENE<br>TRANS-1<br>4-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(73547) | BROMO-<br>ETHENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50002)           | VINYL<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(39175)                           | 1,1-DI-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(34501)            |
| APR 17... | <0.050                                                                        | <0.500                                                                          | <0.050                                                                     | <0.050                                                                          | <0.050                                                                       | <0.200                                                                        | <0.200                                                                     | <5.00                                                                                      | <0.100                                                                         | <0.100                                                                         | <0.100                                                                       |
| DATE      | CIS-1,2<br>-DI-<br>CHLORO-<br>ETHENE<br>WATER<br>TOTAL<br>(UG/L)<br>(77093)   | 1,2-<br>TRANSDI<br>CHLORO-<br>ETHENE<br>TOTAL<br>(UG/L)<br>(34546)              | TRI-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(39180)             | TETRA-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(34475)                | PROPENE<br>3-<br>CHLORO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(78109) | 1,1-DI<br>CHLORO-<br>PRO-<br>PENE,<br>WAT, WH<br>TOTAL<br>(UG/L)<br>(77168)   | CIS<br>1,3-DI-<br>CHLORO-<br>PROPENE<br>TOTAL<br>(UG/L)<br>(34704)         | TRANS-<br>1,3-DI-<br>CHLORO-<br>PROPENE<br>TOTAL<br>(UG/L)<br>(34699)                      | BENZENE<br>SEC<br>N-BUTYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77342)      | BENZENE<br>SEC<br>BUTYL-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77350)       | BENZENE<br>TERT-<br>BUTYL-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77353)   |
| APR 17... | <0.050                                                                        | <0.050                                                                          | <0.050                                                                     | <0.050                                                                          | <0.100                                                                       | <0.050                                                                        | <0.100                                                                     | <0.100                                                                                     | <0.050                                                                         | <0.050                                                                         | <0.050                                                                       |

## QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

TALLAHATCHIE COUNTY--Continued

335623090201801 J020 CITY OF WEBB--Continued

|              |                                                                               |                                                                            | O-XYLENE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77135)                      | META/<br>PARA-<br>XYLENE<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(85795)        | BENZENE<br>123-TRI<br>METHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77221) | BENZENE<br>124-TRI<br>METHYL<br>UNFLT<br>RECOVER<br>(UG/L)<br>(77222)           | BENZENE<br>135-TRI<br>METHYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77226)    | PREH-<br>NITENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(49999)           | ISO-<br>DURENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50000)            | ISO-<br>PROPYL-<br>BENZENE<br>WATER<br>WHOLE<br>REC<br>(UG/L)<br>(77223)       | BENZENE<br>N-PROPY<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77224)                |
|--------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| DATE         | ETHYL-<br>BENZENE<br>TOTAL<br>(UG/L)<br>(34371)                               | TOLUENE<br>TOTAL<br>(UG/L)<br>(34010)                                      |                                                                               |                                                                                 |                                                                                   |                                                                                 |                                                                                 |                                                                               |                                                                               |                                                                                |                                                                                   |
| APR<br>17... | <0.050                                                                        | <0.050                                                                     | <0.050                                                                        | <0.050                                                                          | <0.050                                                                            | <0.050                                                                          | <0.050                                                                          | <0.050                                                                        | <0.050                                                                        | <0.050                                                                         | <0.050                                                                            |
| DATE         | TOLUENE<br>O-ETHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77220)        | P-ISO-<br>PROPYL-<br>TOLUENE<br>WATER<br>WHOLE<br>REC<br>(UG/L)<br>(77356) | BENZENE<br>TOTAL<br>(UG/L)<br>(34030)                                         | NAPHTH-<br>ALENE<br>TOTAL<br>(UG/L)<br>(34696)                                  | STYRENE<br>TOTAL<br>(UG/L)<br>(77128)                                             | ACETONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(81552)                         | ETHER<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81576)             | ETHER<br>TERT-<br>BUTYL<br>ETHYL-<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50004)  | METHYL<br>TERT-<br>BUTYL<br>ETHER<br>WAT UNF<br>REC<br>(UG/L)<br>(78032)      | ETHER<br>TERT-<br>PENTYL<br>METHYL-<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50005) | DI-ISO-<br>PROPYL-<br>ETHER,<br>WATER,<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81577) |
| APR<br>17... | <0.050                                                                        | <0.050                                                                     | <0.050                                                                        | <0.200                                                                          | <0.050                                                                            | <5.00                                                                           | <0.100                                                                          | <0.100                                                                        | <0.100                                                                        | <0.100                                                                         | <0.100                                                                            |
| DATE         | FURAN<br>TETRA-<br>HYDRO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81607) | 2-HEXA-<br>NONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77103)            | METHYL-<br>ISO-<br>BUTYL-<br>KETONE<br>WAT. WH.<br>TOTAL<br>(UG/L)<br>(78133) | METHYL-<br>ETHYL-<br>KETONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(81595)     | BROMO-<br>BENZENE<br>WATER,<br>WHOLE,<br>TOTAL<br>(UG/L)<br>(81555)               | CHLORO-<br>BENZENE<br>WHOLE<br>TOTAL<br>(UG/L)<br>(34301)                       | BENZENE<br>O-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34536)     | BENZENE<br>1,3-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34566) | BENZENE<br>1,4-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34571) | 1,2,3-<br>TRI-<br>CHLORO-<br>BENZENE<br>WAT, WH<br>REC<br>(UG/L)<br>(77613)    | BENZENE<br>1,2,4-<br>TRI-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(34551)       |
| APR<br>17... | <5.00                                                                         | <5.00                                                                      | <5.00                                                                         | <5.00                                                                           | <0.050                                                                            | <0.050                                                                          | <0.050                                                                          | <0.050                                                                        | <0.050                                                                        | <0.200                                                                         | <0.200                                                                            |
| DATE         | O-<br>CHLORO-<br>TOLUENE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77275)      | TOLUENE<br>P-CHLOR<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77277)         | CARBON<br>DI.<br>SULFIDE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77041)      | METHAC-<br>RYLATE<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(73570) | METHYL<br>ACRY-<br>LATE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(49991)       | METH-<br>ACRYLO-<br>NITRITE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81593) | METHAC-<br>RYLATE<br>METHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81597) | ACRO-<br>LEIN<br>TOTAL<br>(UG/L)<br>(34210)                                   | ACRYLO-<br>NITRILE<br>TOTAL<br>(UG/L)<br>(34215)                              | ACETATE<br>VINYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77057)           |                                                                                   |
| APR<br>17... | <0.050                                                                        | <0.050                                                                     | E0.020                                                                        | <1.00                                                                           | <2.00                                                                             | <2.00                                                                           | <1.00                                                                           | <2.00                                                                         | <2.00                                                                         | <5.00                                                                          |                                                                                   |

## WARREN COUNTY

322635090362801 H012 HENRY JONES

|              |      | AGENCY                                                         |                                                                      |                                                              | PUMP                                                                          |                                                                          |                                                                          |                                                                          |                                                                          |                                                       |                                                                 |      |                           |                          |                          |                          |
|--------------|------|----------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------|------|---------------------------|--------------------------|--------------------------|--------------------------|
| DATE         | TIME | GEO-<br>LOGIC<br>UNIT                                          | COL-<br>LECTING                                                      | DEPTH                                                        | FLOW                                                                          | OR FLOW                                                                  | SAMPLE                                                                   | SAMPLER                                                                  | SAMPLING                                                                 | SAMPLING                                              | SAMPLING                                                        | WELL |                           |                          |                          |                          |
|              |      |                                                                | SAMPLE                                                               | OF                                                           | RATE,                                                                         | PERIOD                                                                   |                                                                          |                                                                          |                                                                          |                                                       |                                                                 |      | TO SAMP-                  | CONDIT-                  | PLING                    | CONDIT-                  |
|              |      |                                                                | (CODE<br>NUMBER)<br>(00027)                                          | WELL,<br>TOTAL<br>(FEET)<br>(72008)                          | INSTAN-<br>TANEOUS<br>(G/M)<br>(00059)                                        | PRIOR<br>TO SAMP-<br>LING<br>(MIN)<br>(72004)                            |                                                                          |                                                                          |                                                                          |                                                       |                                                                 |      | PLING<br>(MIN)<br>(72005) | ION<br>(CODE)<br>(84164) | ION<br>(CODE)<br>(72006) | ION<br>(CODE)<br>(82398) |
| SEP<br>04... | 1010 | 123FRHL                                                        | 1028                                                                 | 200.00                                                       | 20                                                                            | 25                                                                       | 47                                                                       | 4040                                                                     | 8.00                                                                     | 4040                                                  | 110                                                             |      |                           |                          |                          |                          |
| DATE         |      | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095)   | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010)              | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080)                       | 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)          | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L)<br>AS NA<br>(00930)                  | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L)<br>AS K<br>(00935)           | ALKA-<br>LINITY<br>LAB<br>(MG/L<br>CACO3)<br>(90410)  | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4)<br>(00945)        |      |                           |                          |                          |                          |
|              |      |                                                                |                                                                      |                                                              |                                                                               |                                                                          |                                                                          |                                                                          |                                                                          |                                                       |                                                                 |      |                           |                          |                          |                          |
|              |      |                                                                |                                                                      |                                                              |                                                                               |                                                                          |                                                                          |                                                                          |                                                                          |                                                       |                                                                 |      |                           |                          |                          |                          |
| SEP<br>04... | 848  | 8.7                                                            | 20.0                                                                 | <5                                                           | 8.8                                                                           | 3.0                                                                      | 190                                                                      | 4.2                                                                      | 472                                                                      | 6.2                                                   |                                                                 |      |                           |                          |                          |                          |
| DATE         |      | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS FL)<br>(00940) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F)<br>(00950)        | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SIO2)<br>(00955) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | PHOS-<br>PHORUS<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671) | 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) |      |                           |                          |                          |                          |
|              |      |                                                                |                                                                      |                                                              |                                                                               |                                                                          |                                                                          |                                                                          |                                                                          |                                                       |                                                                 |      |                           |                          |                          |                          |
|              |      |                                                                |                                                                      |                                                              |                                                                               |                                                                          |                                                                          |                                                                          |                                                                          |                                                       |                                                                 |      |                           |                          |                          |                          |
| SEP<br>04... | 8.0  | 0.50                                                           | 13                                                                   | 528                                                          | <0.010                                                                        | <0.020                                                                   | 0.870                                                                    | 0.190                                                                    | 17                                                                       | 41                                                    |                                                                 |      |                           |                          |                          |                          |

QUALITY OF GROUND WATER  
WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

CROCKETT COUNTY TENNESSEE

355437089144301 CITY OF FRIENDSHIP

|           |        | PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)            |                                                     |                                                        |                                                       | SAMPLER TYPE (CODE)                                        |                                                       | SAMPLING CONDITION                                   |                                                    | SAMPLING METHOD, CODES                                 |                                                           | WELL PURGING CONDITION (CODE)                         |                                                | SPECIFIC CONDUCTANCE (US/CM) |  | PH WATER WHOLE FIELD (STANDARD UNITS) |  | TEMPERATURE WATER (DEG C) |  |
|-----------|--------|---------------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------|------------------------------------------------|------------------------------|--|---------------------------------------|--|---------------------------|--|
| DATE      | TIME   | GEO-LOGIC UNIT                                          | DEPTH OF WELL, TOTAL (FEET)                         | (72008)                                                | (72004)                                               | (72005)                                                    | (84164)                                               | (72006)                                              | (82398)                                            | (84143)                                                | (00095)                                                   | (00400)                                               | (00010)                                        |                              |  |                                       |  |                           |  |
| MAY 02... | 1200   | 124MMPS                                                 | 330.00                                              |                                                        | >60                                                   | 1                                                          | 4040                                                  | 0.10                                                 | 4040                                               | 160                                                    | 121                                                       | 6.2                                                   | 17.0                                           |                              |  |                                       |  |                           |  |
| DATE      |        | OXYGEN, DIS-SOLVED (MG/L) (00300)                       | CALCIUM DIS-SOLVED (MG/L) AS CA (00915)             | MAGNESIUM, DIS-SOLVED (MG/L) AS MG (00925)             | SODIUM, DIS-SOLVED (MG/L) AS NA (00930)               | POTASSIUM, DIS-SOLVED (MG/L) AS K (00935)                  | BICARBONATE WATER DIS IT FIELD (MG/L) AS HCO3 (00453) | ALKALINITY WAT TOT IT FIELD (MG/L) AS CACO3 (39086)  | SULFATE DIS-SOLVED (MG/L) AS SO4 (00945)           | CHLORIDE, DIS-SOLVED (MG/L) AS CL (00940)              | FLUORIDE, DIS-SOLVED (MG/L) AS F (00950)                  | BROMIDE DIS-SOLVED (MG/L) AS BR (71870)               | SILICA, DIS-SOLVED (MG/L) AS (00955)           |                              |  |                                       |  |                           |  |
| MAY 02... | <0.1   | 10                                                      | 4.9                                                 | 5.6                                                    | 1.5                                                   | 71                                                         | 58                                                    | 2.4                                                  | 1.8                                                | <0.10                                                  | 0.030                                                     | 12                                                    |                                                |                              |  |                                       |  |                           |  |
| DATE      |        | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300) | NITROGEN, NITRITE DIS-SOLVED (MG/L) AS N (00613)    | NITROGEN, NO2+NO3 DIS-SOLVED (MG/L) AS N (00631)       | NITROGEN, AMMONIA DIS-SOLVED (MG/L) AS N (00608)      | NITROGEN, AMMONIA + ORGANIC DIS-SOLVED (MG/L) AS N (00623) | PHOSPHORUS DIS-SOLVED (MG/L) AS P (00666)             | PHOSPHORUS ORTHO, DIS-SOLVED (MG/L) AS P (00671)     | IRON, DIS-SOLVED (MG/L) AS FE (01046)              | MANGANESE, DIS-SOLVED (MG/L) AS MN (01056)             | RADON 222 TOTAL (PCI/L) (82303)                           | RN-222 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L) (76002)   | CARBON, ORGANIC DIS-SOLVED (MG/L) AS C (00681) |                              |  |                                       |  |                           |  |
| MAY 02... | 74     | <0.010                                                  | <0.050                                              | 0.040                                                  | <0.20                                                 | <0.010                                                     | <0.010                                                | 320                                                  | 260                                                | 110                                                    | 17                                                        | 0.20                                                  |                                                |                              |  |                                       |  |                           |  |
| DATE      |        | ACETOCHLOR, WATER, FLTRD REC (UG/L) (49260)             | ALACHLOR, WATER, DISS, REC (UG/L) (46342)           | METOLACHLOR, WATER, DISSOLV REC (UG/L) (39415)         | NAPROFAMIDE WATER, FLTRD 0.7 U GF, REC (UG/L) (82684) | PRONAMIDE WATER, FLTRD 0.7 U GF, REC (UG/L) (82676)        | PROPYLCHLOR, WATER, DISS, REC (UG/L) (04024)          | PROPANIL WATER, FLTRD 0.7 U GF, REC (UG/L) (82679)   | ALDICARB, WATER, FLTRD 0.7 U GF (UG/L) (49312)     | ALDICARB, SULFONE WATER, FLTRD 0.7 U GF (UG/L) (49313) | ALDICARB, SULFOXIDE, WATER, FLTRD 0.7 U GF (UG/L) (49314) | BUTYLATE, WATER, DISS, REC (UG/L) (04028)             |                                                |                              |  |                                       |  |                           |  |
| MAY 02... | <0.002 | <0.002                                                  | <0.002                                              | <0.003                                                 | <0.003                                                | <0.007                                                     | <0.004                                                | <0.016                                               | <0.016                                             | <0.021                                                 | <0.002                                                    |                                                       |                                                |                              |  |                                       |  |                           |  |
| DATE      |        | CARBARYL, WATER, FLTRD 0.7 U GF, REC (UG/L) (49310)     | CARBARYL, WATER, FLTRD 0.7 U GF, REC (UG/L) (82680) | CARBOFURAN, WATER, FLTRD 0.7 U GF, REC (UG/L) (49309)  | CARBOFURAN, WATER, FLTRD 0.7 U GF, REC (UG/L) (82674) | 3HYDRXY CARBOFURAN, WAT, FLT 0.7 U GF, REC (UG/L) (49308)  | EPTC WATER, FLTRD 0.7 U GF, REC (UG/L) (82668)        | METHIOCARB, WATER, FLTRD 0.7 U GF (UG/L) (38501)     | METHOMYL, WATER, FLTRD 0.7 U GF (UG/L) (49296)     | MOLINATE WATER, FLTRD 0.7 U GF, REC (UG/L) (82671)     | OXAMYL, WATER, FLTRD 0.7 U GF (UG/L) (38866)              | PEBULATE, WATER, FILTRD 0.7 U GF, REC (UG/L) (82669)  |                                                |                              |  |                                       |  |                           |  |
| MAY 02... | <0.008 | <0.003                                                  | <0.028                                              | <0.003                                                 | <0.014                                                | <0.002                                                     | <0.026                                                | <0.017                                               | <0.004                                             | <0.018                                                 | <0.004                                                    |                                                       |                                                |                              |  |                                       |  |                           |  |
| DATE      |        | PROPHAM, WATER, FLTRD 0.7 U GF, REC (UG/L) (49236)      | PROPOXUR, WATER, FLTRD 0.7 U GF, REC (UG/L) (38538) | THIOBENCARB, WATER, FLTRD 0.7 U GF, REC (UG/L) (82681) | TRIALATE WATER, FLTRD 0.7 U GF, REC (UG/L) (82678)    | 2,4-D, DIS-SOLVED (UG/L) (39732)                           | DICHLOR PROP, WATER, FLTRD 0.7 U GF (UG/L) (49302)    | 2,4-DB MCPA, WATER, FLTRD 0.7 U GF (UG/L) (38746)    | MCPB, WATER, FLTRD 0.7 U GF (UG/L) (38482)         | MCPB, WATER, FLTRD 0.7 U GF (UG/L) (38487)             | SILVEX, DIS-SOLVED (UG/L) (39762)                         | 2,4,5-T DIS-SOLVED (UG/L) (39742)                     |                                                |                              |  |                                       |  |                           |  |
| MAY 02... | <0.035 | <0.035                                                  | <0.002                                              | <0.001                                                 | <0.035                                                | <0.032                                                     | <0.035                                                | <0.050                                               | <0.035                                             | <0.021                                                 | <0.035                                                    |                                                       |                                                |                              |  |                                       |  |                           |  |
| DATE      |        | TRICLOPYR, WATER, FLTRD 0.7 U GF, REC (UG/L) (49235)    | BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)    | ETHALFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)     | ORYZALIN, WATER, FLTRD 0.7 U GF, REC (UG/L) (49292)   | PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)         | TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)      | ALPHA BHC DIS-SOLVED (UG/L) (34253)                  | CHLOROTHALONIL, WAT, FLT 0.7 U GF (UG/L) (49306)   | DCPA WATER, FLTRD 0.7 U GF, REC (UG/L) (82682)         | DACTHAL MONO-ACID, WAT, FLT 0.7 U GF (UG/L) (49304)       | P,P' DDE DISSOLV (UG/L) (34653)                       |                                                |                              |  |                                       |  |                           |  |
| MAY 02... | <0.050 | <0.002                                                  | <0.004                                              | <0.019                                                 | <0.004                                                | <0.002                                                     | <0.002                                                | <0.035                                               | <0.002                                             | <0.017                                                 | <0.006                                                    |                                                       |                                                |                              |  |                                       |  |                           |  |
| DATE      |        | DICHLOROBENIL, WATER, FLTRD 0.7 U GF (UG/L) (49303)     | DIELDRIN DIS-SOLVED (UG/L) (39381)                  | LINDANE DIS-SOLVED (UG/L) (39341)                      | METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)  | CHLORPYRIFOS DIS-SOLVED (UG/L) (38933)                     | DI-AZINON, DIS-SOLVED (UG/L) (39572)                  | DISULFOTON WATER, FLTRD 0.7 U GF, REC (UG/L) (82677) | ETHOPROP WATER, FLTRD 0.7 U GF, REC (UG/L) (82672) | FONOPHOS WATER DISS REC (UG/L) (04095)                 | MALATHION, DIS-SOLVED (UG/L) (39532)                      | METHYL PARATHION WAT FLT 0.7 U GF, REC (UG/L) (82667) |                                                |                              |  |                                       |  |                           |  |
| MAY 02... | <0.020 | <0.001                                                  | <0.004                                              | <0.001                                                 | <0.004                                                | <0.002                                                     | <0.017                                                | <0.003                                               | <0.003                                             | <0.005                                                 | <0.006                                                    |                                                       |                                                |                              |  |                                       |  |                           |  |

## WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## CROCKETT COUNTY TENNESSEE--Continued

## 355437089144301 CITY OF FRIENDSHIP--Continued

| DATE         | PARA-<br>THION,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39542)                          | PHORATE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82664)                | TER-<br>BUFOS<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82675)     | PER-<br>METHRIN<br>CIS<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82687)      | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632)                       | DEETHYL<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040)                     | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)                | METRI-<br>BUZIN<br>SENCOR<br>WATER<br>DISSOLV<br>REC<br>(UG/L)<br>(82630)                  | PRO-<br>METON,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04037)                  | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035)                           | BRO-<br>MACIL,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04029)               |
|--------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| MAY<br>02... | <0.004                                                                          | <0.002                                                                            | <0.013                                                                       | <0.005                                                                          | <0.001                                                                              | <0.002                                                                              | <0.004                                                                        | <0.004                                                                                     | <0.018                                                                         | <0.005                                                                                  | <0.035                                                                      |
| DATE         | TER-<br>BACIL<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82665)        | FEN-<br>URON,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49297)         | DIURON,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49300)          | FLUO-<br>METURON<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(38811)    | LINURON<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(38478)                 | LIN-<br>URON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82666)             | NEB-<br>URON,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49294)     | TEBU-<br>THIURON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82670)                | ACIFL-<br>URFEN<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49315)    | BENTA-<br>ZON,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(38711)              | BRO-<br>MOXYNIL<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49311) |
| MAY<br>02... | <0.007                                                                          | <0.013                                                                            | <0.020                                                                       | <0.035                                                                          | <0.018                                                                              | <0.002                                                                              | <0.015                                                                        | <0.010                                                                                     | <0.035                                                                         | <0.014                                                                                  | <0.035                                                                      |
| DATE         | CHLOR-<br>AMBEN,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49307)    | CLOPYR-<br>ALID,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49305)      | DICAMBA<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(38442)          | 2,6-DI-<br>ETHYL<br>ANILINE<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82660) | DINOSEB<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49301)                 | DNOC<br>WAT, FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49299)                           | ESFEN-<br>VAL-<br>ERATE,<br>WAT, FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49298) | 1-NAPH<br>THOL,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49295)                | NORFLUR<br>AZON,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49293)   | PIC-<br>LORAM,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49291)              | PRO-<br>PARGITE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82685)  |
| MAY<br>02... | <0.011                                                                          | <0.050                                                                            | <0.035                                                                       | <0.003                                                                          | <0.035                                                                              | <0.035                                                                              | <0.019                                                                        | <0.007                                                                                     | <0.024                                                                         | <0.050                                                                                  | <0.013                                                                      |
| DATE         | 1,2-<br>DIBROMO<br>ETHANE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77651)       | CHLORO-<br>ETHANE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(34311)                 | 1,1-DI-<br>CHLORO-<br>ETHANE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(34496) | 1,2-DI-<br>CHLORO-<br>ETHANE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(32103)    | 1,1,1-<br>TRI-<br>CHLORO-<br>ETHANE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(34506) | 1,1,2-<br>TRI-<br>CHLORO-<br>ETHANE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(34511) | FREON-<br>113<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77652)                 | ETHANE,<br>1112-<br>TETRA-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(77562)               | ETHANE,<br>1,1,2,2<br>TETRA-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(34516) | ETHANE<br>HEXA-<br>CHLORO-<br>WATER<br>UNFLTRD<br>RECOVER<br>TOTAL<br>(UG/L)<br>(34396) | METHYL-<br>BROMIDE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(34413)          |
| MAY<br>02... | <0.100                                                                          | <0.100                                                                            | <0.050                                                                       | <0.050                                                                          | <0.050                                                                              | <0.100                                                                              | <0.050                                                                        | <0.050                                                                                     | <0.100                                                                         | <0.050                                                                                  | <0.100                                                                      |
| DATE         | METHANE<br>BROMO<br>CHLORO-<br>WAT<br>UNFLTRD<br>REC<br>(UG/L)<br>(77297)       | DI-<br>CHLORO-<br>BROMO-<br>METHANE<br>WAT<br>UNFLTRD<br>REC<br>(UG/L)<br>(32101) | DI-<br>BROMO-<br>METHANE<br>WHOLE<br>RECOVER<br>(UG/L)<br>(30217)            | BROMO-<br>FORM<br>TOTAL<br>(UG/L)<br>(32104)                                    | METHYL-<br>DI-<br>BROMO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(34418)                      | CHLORO-<br>DI-<br>BROMO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(32105)                   | METHYL-<br>ENE<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(34423)                 | DI-<br>CHLORO-<br>FLUORO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(34668)                         | CHLORO-<br>FORM<br>TOTAL<br>(UG/L)<br>(32106)                                  | TRI-<br>CHLORO-<br>FLUORO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(34488)                     | CARBON-<br>TETRA-<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(32102)            |
| MAY<br>02... | <0.100                                                                          | <0.100                                                                            | <0.100                                                                       | <0.200                                                                          | <0.200                                                                              | <0.100                                                                              | <0.100                                                                        | <0.200                                                                                     | <0.050                                                                         | <0.100                                                                                  | <0.050                                                                      |
| DATE         | METHYL<br>CHLORO-<br>IODIDE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77424) | DIBROMO<br>PROPANE<br>WATER<br>WHOLE<br>TOT, REC<br>(UG/L)<br>(82625)             | 1,2-DI-<br>CHLORO-<br>PROPANE<br>WAT, WH<br>TOTAL<br>(UG/L)<br>(34541)       | 1,3-DI-<br>CHLORO-<br>PROPANE<br>WAT, WH<br>TOTAL<br>(UG/L)<br>(77173)          | 2,2-DI-<br>CHLORO-<br>PRO-<br>PANE<br>WAT, WH<br>TOTAL<br>(UG/L)<br>(77170)         | 123-TRI<br>CHLORO-<br>PROPANE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77443)       | HEXA-<br>CHLORO-<br>BUT-<br>ADIENE<br>TOTAL<br>(UG/L)<br>(39702)              | 2BUTENE<br>TRANS-1<br>4-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(73547) | BROMO-<br>ETHENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50002)           | VINYL<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(39175)                                    | 1,1-DI-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(34501)           |
| MAY<br>02... | <0.050                                                                          | <0.500                                                                            | <0.050                                                                       | <0.050                                                                          | <0.050                                                                              | <0.200                                                                              | <0.200                                                                        | <5.00                                                                                      | <0.100                                                                         | <0.100                                                                                  | <0.100                                                                      |
| DATE         | CIS-1,2<br>DI-<br>CHLORO-<br>ETHENE<br>WATER<br>TOTAL<br>(UG/L)<br>(77093)      | 1,2-<br>TRANS DI<br>CHLORO-<br>ETHENE<br>WATER<br>TOTAL<br>(UG/L)<br>(34546)      | TRI-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(39180)               | TETRA-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(34475)                | PROPENE<br>3-<br>CHLORO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(78109)        | 1,1-DI<br>CHLORO-<br>PRO-<br>PENE,<br>WAT, WH<br>TOTAL<br>(UG/L)<br>(77168)         | CIS<br>1,3-DI-<br>CHLORO-<br>PROPENE<br>TOTAL<br>(UG/L)<br>(34704)            | TRANS-<br>1,3-DI-<br>CHLORO-<br>PROPENE<br>TOTAL<br>(UG/L)<br>(34699)                      | BENZENE<br>N-BUTYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77342)             | BENZENE<br>SEC<br>BUTYL-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77350)                | BENZENE<br>TERT-<br>BUTYL-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77353)  |
| MAY<br>02... | <0.050                                                                          | <0.050                                                                            | <0.050                                                                       | <0.050                                                                          | <0.100                                                                              | <0.050                                                                              | <0.100                                                                        | <0.100                                                                                     | <0.050                                                                         | <0.050                                                                                  | <0.050                                                                      |
| DATE         | ETHYL-<br>BENZENE<br>TOTAL<br>(UG/L)<br>(34371)                                 | TOLUENE<br>TOTAL<br>(UG/L)<br>(34010)                                             | O-<br>XYLENE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77135)                 | META/<br>PARA-<br>XYLENE<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(85795)        | BENZENE<br>123-TRI<br>METHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77221)   | BENZENE<br>124-TRI<br>METHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77222)    | BENZENE<br>135-TRI<br>METHYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77226)  | PREH-<br>NITENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(49999)                        | ISO-<br>DURENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50000)             | ISO-<br>PROPYL-<br>BENZENE<br>WATER<br>WHOLE<br>REC<br>(UG/L)<br>(77223)                | BENZENE<br>N-PROPY<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77224)          |
| MAY<br>02... | <0.050                                                                          | <0.050                                                                            | <0.050                                                                       | <0.050                                                                          | <0.050                                                                              | E0.020                                                                              | <0.050                                                                        | <0.050                                                                                     | <0.050                                                                         | <0.050                                                                                  | <0.050                                                                      |



## QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

CROCKETT COUNTY TENNESSEE--Continued

355437089144301 CITY OF FRIENDSHIP--Continued

| DATE         | TOLUENE<br>O-ETHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77220)   | P-ISO-<br>PROPYL-<br>TOLUENE<br>WATER<br>WHOLE<br>REC<br>(UG/L)<br>(77356)    | BENZENE<br>TOTAL<br>(UG/L)<br>(34030)                                    | NAPHTH-<br>ALENE<br>TOTAL<br>(UG/L)<br>(34696)                                  | STYRENE<br>TOTAL<br>(UG/L)<br>(77128)                                        | ACETONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(81552)                         | ETHER<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81576)             | ETHER<br>TERT-<br>BUTYL<br>ETHYL-<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50004) | METHYL<br>TERT-<br>BUTYL<br>ETHER<br>WAT UNF<br>RECOVER<br>(UG/L)<br>(78032)  | ETHER<br>TERT-<br>PENTYL<br>METHYL-<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50005) | DI-ISO-<br>PROPYL-<br>ETHER,<br>WATER,<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81577) |
|--------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|              | MAY<br>02...                                                             | <0.050                                                                        | <0.050                                                                   | <0.050                                                                          | <0.200                                                                       | <0.050                                                                          | <5.00                                                                           | <0.100                                                                       | <0.100                                                                        | <0.100                                                                         | <0.100                                                                            |
|              | DATE                                                                     | FURAN<br>TETRA-<br>HYDRO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81607) | 2-HEXA-<br>NONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77103)          | METHYL-<br>ISO-<br>BUTYL-<br>KETONE<br>WAT. WH.<br>TOTAL<br>(UG/L)<br>(78133)   | METHYL-<br>ETHYL-<br>KETONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(81595)  | BROMO-<br>BENZENE<br>WATER,<br>WHOLE,<br>TOTAL<br>(UG/L)<br>(81555)             | CHLORO-<br>BENZENE<br>UNFLTRD<br>TOTAL<br>(UG/L)<br>(34301)                     | BENZENE<br>O-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34536)  | BENZENE<br>1,3-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34566) | BENZENE<br>1,4-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34571)  | 1,2,3-<br>TRI-<br>CHLORO-<br>BENZENE<br>WAT, WH<br>REC<br>(UG/L)<br>(77613)       |
| MAY<br>02... | <5.00                                                                    | <5.00                                                                         | <5.00                                                                    | <5.00                                                                           | <0.050                                                                       | <0.050                                                                          | <0.050                                                                          | <0.050                                                                       | <0.050                                                                        | <0.200                                                                         | <0.200                                                                            |
| DATE         | O-<br>CHLORO-<br>TOLUENE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77275) | TOLUENE<br>P-CHLOR<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77277)            | CARBON<br>DI.<br>SULFIDE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77041) | METHAC-<br>RYLATE<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(73570) | METHYL<br>ACRYL-<br>LATE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(49991) | METH-<br>ACRYLO-<br>NITRITE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81593) | METHAC-<br>RYLATE<br>METHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81597) | ACRO-<br>LEIN<br>TOTAL<br>(UG/L)<br>(34210)                                  | ACRYLO-<br>NITRILE<br>TOTAL<br>(UG/L)<br>(34215)                              | ACETATE<br>VINYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77057)           |                                                                                   |
| MAY<br>02... | <0.050                                                                   | <0.050                                                                        | E0.008                                                                   | <1.00                                                                           | <2.00                                                                        | <2.00                                                                           | <1.00                                                                           | <2.00                                                                        | <2.00                                                                         | <5.00                                                                          |                                                                                   |

## QUALITY OF GROUND WATER

307

## WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## LAUDERDALE COUNTY TENNESSEE

354444089314401 CITY OF RIPLEY

| DATE      | TIME | GEO-LOGIC UNIT                                           | DEPTH OF WELL, TOTAL (FEET)<br>(72008)                  | PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)<br>(72004)    | SAMPLE SOURCE<br>(72005)                                          | SAMPLER TYPE<br>(CODE)<br>(84164)                          | SAM-PLING CONDI-TION<br>(72006)                          | SAM-PLING METHOD, CODES<br>(82398)                        | WELL PURGING CONDI-TION<br>(CODE)<br>(84143)            | SPE-CIFIC CON-DUCT-ANCE<br>(US/CM)<br>(00095)             | PH WATER WHOLE FIELD (STAND-ARD)<br>(UNITS)<br>(00400)      | TEMPER-ATURE<br>(DEG C)<br>(00010)                         |
|-----------|------|----------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------|
| MAY 07... | 0900 | 124MMP5                                                  | 730.00                                                  | >60                                                        | 1                                                                 | 4040                                                       | 0.10                                                     | 4040                                                      | 160                                                     | 226                                                       | 6.4                                                         | 18.0                                                       |
| DATE      |      | OXYGEN, DIS-SOLVED (MG/L)<br>(00300)                     | CALCIUM DIS-SOLVED (MG/L)<br>AS CA<br>(00915)           | MAGNE-SIUM, DIS-SOLVED (MG/L)<br>AS MG<br>(00925)          | SODIUM, DIS-SOLVED (MG/L)<br>AS NA<br>(00930)                     | POTAS-SIUM, DIS-SOLVED (MG/L)<br>AS K<br>(00935)           | SULFATE DIS-SOLVED (MG/L)<br>AS SO4<br>(00945)           | CHLO-RIDE, DIS-SOLVED (MG/L)<br>AS CL<br>(00940)          | FLUO-RIDE, DIS-SOLVED (MG/L)<br>AS F<br>(00950)         | BROMIDE DIS-SOLVED (MG/L)<br>AS BR<br>(71870)             | SILICA, DIS-SOLVED (MG/L)<br>AS ST02<br>(00955)             | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)<br>(70300) |
| MAY 07... |      | <0.1                                                     | 18                                                      | 9.4                                                        | 6.9                                                               | 1.9                                                        | 2.1                                                      | 1.8                                                       | 0.20                                                    | 0.030                                                     | 10                                                          | 116                                                        |
| DATE      |      | NITRO-GEN, NITRITE DIS-SOLVED (MG/L)<br>AS N<br>(00613)  | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L)<br>AS N<br>(00631) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L)<br>AS N<br>(00608)    | NITRO-GEN, AMMONIA + ORGANIC DIS-SOLVED (MG/L)<br>AS N<br>(00623) | PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L)<br>AS P<br>(00666)    | PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L)<br>AS P<br>(00671)  | IRON, DIS-SOLVED (MG/L)<br>AS FE<br>(01046)               | MANGA-NESE, DIS-SOLVED (MG/L)<br>AS MN<br>(01056)       | RADON 222 TOTAL (PCI/L)<br>(82303)                        | RN-222 RB SUL-WATER, WHOLE, TOTAL (PCI/L)<br>(76002)        | CARBON, ORGANIC DIS-SOLVED (MG/L)<br>AS C<br>(00681)       |
| MAY 07... |      | <0.010                                                   | 0.060                                                   | 0.050                                                      | <0.20                                                             | 0.140                                                      | <0.010                                                   | 6100                                                      | 120                                                     | 72                                                        | 16                                                          | 0.30                                                       |
| DATE      |      | ACETO-CHLOR, WATER, FLTRD REC (UG/L)<br>(49260)          | ALA-CHLOR, WATER, FLTRD REC (UG/L)<br>(46342)           | METO-LACHLOR, WATER, DISSOLV (UG/L)<br>(39415)             | NAPPROP-AMIDE WATER, FLTRD 0.7 U GF, REC (UG/L)<br>(82684)        | PRON-AMIDE WATER, FLTRD 0.7 U GF, REC (UG/L)<br>(82676)    | PROP-CHLOR, WATER, FLTRD DISS, REC (UG/L)<br>(04024)     | PRO-PANIL, WATER, FLTRD 0.7 U GF, REC (UG/L)<br>(82679)   | ALDI-CARB, WATER, FLTRD 0.7 U GF, REC (UG/L)<br>(49312) | ALDI-CARB, SULFONE, FLTRD 0.7 U GF, REC (UG/L)<br>(49313) | ALDICA-RB SUL-FOXIDE, FLTRD 0.7 U GF, REC (UG/L)<br>(49314) | BUTYL-ATE, WATER, DISS, REC (UG/L)<br>(04028)              |
| MAY 07... |      | <0.002                                                   | <0.002                                                  | <0.002                                                     | <0.003                                                            | <0.003                                                     | <0.007                                                   | <0.004                                                    | <0.016                                                  | <0.016                                                    | <0.021                                                      | <0.002                                                     |
| DATE      |      | CAR-BARYL, WATER, FLTRD GF 0.7U REC (UG/L)<br>(49310)    | CAR-BARYL, WATER, FLTRD 0.7 U GF, REC (UG/L)<br>(82680) | CARBO-FURAN, WATER, FLTRD 0.7 U GF, REC (UG/L)<br>(49309)  | CARBO-FURAN, WATER, FLTRD 0.7 U GF, REC (UG/L)<br>(82674)         | 3HYDRXY CARBO-FURAN, WAT,FLT GF 0.7U REC (UG/L)<br>(49308) | EPTC WATER, FLTRD 0.7 U GF, REC (UG/L)<br>(82668)        | METHIO-CARB, WATER, FLTRD 0.7 U GF, REC (UG/L)<br>(38501) | METH-OMYL, WATER, FLTRD 0.7 U GF, REC (UG/L)<br>(49296) | MOL-INATE, WATER, FLTRD 0.7 U GF, REC (UG/L)<br>(82671)   | OXAMYL, WATER, FLTRD 0.7 U GF, REC (UG/L)<br>(38866)        | PEB-ULATE, WATER, FLTRD 0.7 U GF, REC (UG/L)<br>(82669)    |
| MAY 07... |      | <0.008                                                   | <0.003                                                  | <0.028                                                     | <0.003                                                            | <0.014                                                     | <0.002                                                   | <0.026                                                    | <0.017                                                  | <0.004                                                    | <0.018                                                      | <0.004                                                     |
| DATE      |      | PRO-PHAM, WATER, FLTRD GF 0.7U REC (UG/L)<br>(49236)     | PRO-POKUR, WATER, FLTRD GF 0.7U REC (UG/L)<br>(38538)   | THIO-BENCARB, WATER, FLTRD 0.7 U GF, REC (UG/L)<br>(82681) | TRIAL-LATE, WATER, FLTRD 0.7 U GF, REC (UG/L)<br>(82678)          | 2,4-D, DIS-SOLVED (UG/L)<br>(39732)                        | DICHLOR PROP, WATER, FLTRD GF 0.7U REC (UG/L)<br>(49302) | 2,4-DB, WATER, FLTRD GF 0.7U REC (UG/L)<br>(38746)        | MCPA, WATER, FLTRD GF 0.7U REC (UG/L)<br>(38482)        | MCPB, WATER, FLTRD GF 0.7U REC (UG/L)<br>(38487)          | SILVEX, DIS-SOLVED (UG/L)<br>(39762)                        | 2,4,5-T DIS-SOLVED (UG/L)<br>(39742)                       |
| MAY 07... |      | <0.035                                                   | <0.035                                                  | <0.002                                                     | <0.001                                                            | <0.035                                                     | <0.032                                                   | <0.035                                                    | <0.050                                                  | <0.035                                                    | <0.021                                                      | <0.035                                                     |
| DATE      |      | TRI-CLOPYR, WATER, FLTRD GF 0.7U REC (UG/L)<br>(49235)   | BEN-FLUR-ALIN, WAT FLT GF, REC (UG/L)<br>(82673)        | ETHAL-FLUR-ALIN, WAT FLT GF, REC (UG/L)<br>(82663)         | ORY-ZALIN, WATER, FLTRD GF 0.7U REC (UG/L)<br>(49292)             | PENDI-METH, ALIN, WAT FLT GF, REC (UG/L)<br>(82683)        | TRI-FLUR-ALIN, WAT FLT GF, REC (UG/L)<br>(82661)         | ALPHA BHC, DIS-SOLVED (UG/L)<br>(34253)                   | CHLORO-THALO-NIL, WAT,FLT GF 0.7U REC (UG/L)<br>(49306) | DCPA, WATER, FLTRD 0.7 U GF, REC (UG/L)<br>(82682)        | DACTHAL MONO-ACID, WAT,FLT GF 0.7U REC (UG/L)<br>(49304)    | P,P' DDE DISSOLV (UG/L)<br>(34653)                         |
| MAY 07... |      | <0.050                                                   | <0.002                                                  | <0.004                                                     | <0.019                                                            | <0.004                                                     | <0.002                                                   | <0.002                                                    | <0.035                                                  | <0.002                                                    | <0.017                                                      | <0.006                                                     |
| DATE      |      | DICHLO-BENIL, WATER, FLTRD GF 0.7U REC (UG/L)<br>(49303) | DI-ELDRIN, DIS-SOLVED (UG/L)<br>(39381)                 | LINDANE DIS-SOLVED (UG/L)<br>(39341)                       | METHYL PHOS WAT FLT 0.7 U GF, REC (UG/L)<br>(82686)               | CHLOR-PYRIFOS, DIS-SOLVED (UG/L)<br>(38933)                | DI-AZINON, DIS-SOLVED (UG/L)<br>(39572)                  | DISUL-FOTON, WATER, FLTRD 0.7 U GF, REC (UG/L)<br>(82677) | ETHO-PROP, WATER, FLTRD 0.7 U GF, REC (UG/L)<br>(82672) | FONOFOS, WATER, DISS REC (UG/L)<br>(04095)                | MALA-THION, DIS-SOLVED (UG/L)<br>(39532)                    | METHYL PARA-THION, WAT FLT 0.7 U GF, REC (UG/L)<br>(82667) |
| MAY 07... |      | <0.020                                                   | <0.001                                                  | <0.004                                                     | <0.001                                                            | <0.004                                                     | <0.002                                                   | <0.017                                                    | <0.003                                                  | <0.003                                                    | <0.005                                                      | <0.006                                                     |

## QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

LAUDERDALE COUNTY TENNESSEE--Continued

354444089314401 CITY OF RIPLEY--Continued

| DATE         | PARA-<br>THION,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39542)                       | PHORATE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82664)           | TER-<br>BUFOS<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82675) | PER-<br>METHRIN<br>CIS<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82687)      | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632)                     | DEETHYL<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040)             | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)               | METRI-<br>BUZIN<br>SENCOR<br>WATER<br>DISSOLV<br>(UG/L)<br>(82630)                         | PRO-<br>METON,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04037)                  | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035)                | BRO-<br>MACIL,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04029)               |
|--------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| MAY<br>07... | <0.004                                                                       | <0.002                                                                       | <0.013                                                                   | <0.005                                                                          | <0.001                                                                            | <0.002                                                                      | <0.004                                                                       | <0.004                                                                                     | <0.018                                                                         | <0.005                                                                       | <0.035                                                                      |
| DATE         | TER-<br>BACIL<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82665)     | FEN-<br>URON,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49297)    | DIURON,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49300)      | FLUO-<br>METHURON<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(38811)   | LINURON<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(38478)               | LIN-<br>URON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82666)     | NEB-<br>URON<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49294)     | TEBU-<br>THIURON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82670)                | ACIFL-<br>ZON,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49315)     | BENTA-<br>LORAM,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(38711) | BRO-<br>MOXYNIL<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49311) |
| MAY<br>07... | <0.007                                                                       | <0.013                                                                       | <0.020                                                                   | <0.035                                                                          | <0.018                                                                            | <0.002                                                                      | <0.015                                                                       | <0.010                                                                                     | <0.035                                                                         | <0.014                                                                       | <0.035                                                                      |
| DATE         | CHLOR-<br>AMBEN,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49307) | CLOPYR-<br>ALID,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49305) | DICAMBA<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(38442)      | 2,6-DI-<br>ETHYL<br>ANILINE<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82660) | DINOSIB<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49301)               | DNOC<br>WAT,FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49299)                    | ESFEN-<br>VAL-<br>ERATE,<br>WAT,FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49298) | 1-NAPH-<br>THOL,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49295)               | NORFLUR<br>AZON,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49293)   | PIC-<br>LORAM,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49291)   | PRO-<br>PARGITE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82685)  |
| MAY<br>07... | <0.011                                                                       | <0.050                                                                       | <0.035                                                                   | <0.003                                                                          | <0.035                                                                            | <0.035                                                                      | <0.019                                                                       | <0.007                                                                                     | <0.024                                                                         | <0.050                                                                       | <0.013                                                                      |
| DATE         | 1,2-<br>DIBROMO<br>ETHANE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77651)    | CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34311)                              | 1,1-DI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34496)               | 1,2-DI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(32103)                      | 1,1,1-<br>TRI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34506)                 | 1,1,2-<br>TRI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34511)           | FREON-<br>113<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77652)                | ETHANE,<br>1112-<br>TETRA-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(77562)               | ETHANE,<br>1,1,2,2<br>TETRA-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(34516) | ETHANE<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34396)            | METHYL-<br>BROMIDE<br>TOTAL<br>(UG/L)<br>(34413)                            |
| MAY<br>07... | <0.100                                                                       | <0.100                                                                       | <0.050                                                                   | <0.050                                                                          | <0.050                                                                            | <0.100                                                                      | <0.050                                                                       | <0.050                                                                                     | <0.100                                                                         | <0.050                                                                       | <0.100                                                                      |
| DATE         | METHANE<br>BROMO<br>CHLORO-<br>WAT<br>UNFLTRD<br>REC<br>(UG/L)<br>(77297)    | DI-<br>CHLORO-<br>BROMO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(32101)            | DI-<br>BROMO-<br>METHANE<br>WHOLE<br>RECOVER<br>(UG/L)<br>(30217)        | BROMO-<br>FORM<br>TOTAL<br>(UG/L)<br>(32104)                                    | METHYL-<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(34418)                            | CHLORO-<br>DI-<br>BROMO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(32105)           | METHYL-<br>ENE<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(34423)                | DI-<br>CHLORO-<br>DI-<br>FLUORO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(34668)                  | CHLORO-<br>FORM<br>TOTAL<br>(UG/L)<br>(32106)                                  | TRI-<br>CHLORO-<br>FLUORO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(34488)          | CARBON-<br>TETRA-<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(32102)            |
| MAY<br>07... | <0.100                                                                       | <0.100                                                                       | <0.100                                                                   | <0.200                                                                          | <0.200                                                                            | <0.100                                                                      | <0.100                                                                       | <0.200                                                                                     | <0.050                                                                         | <0.100                                                                       | <0.050                                                                      |
| DATE         | METHYL<br>IODIDE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77424)         | DIBROMO<br>CHLORO-<br>PROPANE<br>WHOLE<br>TOT, REC<br>(UG/L)<br>(82625)      | 1,2-DI-<br>CHLORO-<br>PROPANE<br>TOTAL<br>(UG/L)<br>(34541)              | 1,3-DI-<br>CHLORO-<br>PROPANE<br>WAT, WH<br>TOTAL<br>(UG/L)<br>(77173)          | 2,2-DI-<br>CHLORO-<br>PRO-<br>PANE<br>WAT, WH<br>TOTAL<br>(UG/L)<br>(77170)       | 123-TRI<br>CHLORO-<br>PROPANE<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77443)        | HEXA-<br>BUT-<br>ADIENE<br>TOTAL<br>(UG/L)<br>(39702)                        | 2BUTENE<br>TRANS-1<br>4-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(73547) | BROMO-<br>ETHENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50002)           | VINYL<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(39175)                         | 1,1-DI-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(34501)           |
| MAY<br>07... | <0.050                                                                       | <0.500                                                                       | <0.050                                                                   | <0.050                                                                          | <0.050                                                                            | <0.200                                                                      | <0.200                                                                       | <5.00                                                                                      | <0.100                                                                         | <0.100                                                                       | <0.100                                                                      |
| DATE         | CIS-1,2<br>-DI-<br>CHLORO-<br>ETHENE<br>WATER<br>TOTAL<br>(UG/L)<br>(77093)  | 1,2-<br>TRANSDI<br>CHLORO-<br>ETHENE<br>TOTAL<br>(UG/L)<br>(34546)           | TRI-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(39180)           | TETRA-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(34475)                | PROPENE<br>3-<br>CHLORO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(78109)      | 1,1-DI<br>CHLORO-<br>PRO-<br>PENE,<br>WAT, WH<br>TOTAL<br>(UG/L)<br>(77168) | CIS<br>1,3-DI-<br>CHLORO-<br>PROPENE<br>TOTAL<br>(UG/L)<br>(34704)           | TRANS-<br>1,3-DI-<br>CHLORO-<br>PROPENE<br>TOTAL<br>(UG/L)<br>(34699)                      | BENZENE<br>N-BUTYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77342)             | BENZENE<br>SEC<br>BUTYL-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77350)     | BENZENE<br>TERT-<br>BUTYL-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77353)  |
| MAY<br>07... | <0.050                                                                       | <0.050                                                                       | <0.050                                                                   | <0.050                                                                          | <0.100                                                                            | <0.050                                                                      | <0.100                                                                       | <0.100                                                                                     | <0.050                                                                         | <0.050                                                                       | <0.050                                                                      |
| DATE         | ETHYL-<br>BENZENE<br>TOTAL<br>(UG/L)<br>(34371)                              | TOLUENE<br>TOTAL<br>(UG/L)<br>(34010)                                        | O-<br>XYLENE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77135)             | META/<br>PARA-<br>XYLENE<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(85795)        | BENZENE<br>123-TRI<br>METHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77221) | BENZENE<br>124-TRI<br>METHYL<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77222)     | BENZENE<br>135-TRI<br>METHYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77226) | PREH-<br>NITENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(49999)                        | ISO-<br>DURENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50000)             | ISO-<br>PROPYL-<br>BENZENE<br>WATER<br>WHOLE<br>REC<br>(UG/L)<br>(77223)     | BENZENE<br>N-PROPY<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77224)          |
| MAY<br>07... | 0.160                                                                        | <0.050                                                                       | 0.160                                                                    | 0.430                                                                           | <0.050                                                                            | 0.020                                                                       | <0.050                                                                       | <0.050                                                                                     | <0.050                                                                         | <0.050                                                                       | <0.050                                                                      |

## WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

LAUDERDALE COUNTY TENNESSEE--Continued

354444089314401 CITY OF RIPLEY--Continued

| DATE         | TOLUENE<br>O-ETHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77220)   | P-ISO-<br>PROPYL-<br>TOLUENE<br>WATER<br>WHOLE<br>REC<br>(UG/L)<br>(77356)    | BENZENE<br>TOTAL<br>(UG/L)<br>(34030)                                    | NAPHTH-<br>AENE<br>TOTAL<br>(UG/L)<br>(34696)                                   | STYRENE<br>TOTAL<br>(UG/L)<br>(77128)                                       | ACETONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(81552)                         | ETHER<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81576)             | ETHER<br>TERT-<br>BUTYL<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50004) | METHYL<br>TERT-<br>BUTYL<br>ETHER<br>WAT UNF<br>REC<br>(UG/L)<br>(78032)      | ETHER<br>TERT-<br>PENTYL<br>METHYL-<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50005) | DI-ISO-<br>PROPYL-<br>ETHER,<br>WATER,<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81577) |
|--------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|              | MAY<br>07...                                                             | <0.050                                                                        | <0.050                                                                   | <0.050                                                                          | <0.200                                                                      | <0.050                                                                          | <5.00                                                                           | <0.100                                                                                | <0.100                                                                        | <0.100                                                                         | <0.100                                                                            |
|              | DATE                                                                     | FURAN<br>TETRA-<br>HYDRO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81607) | 2-HEXA-<br>NONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77103)          | METHYL-<br>ISO-<br>BUTYL-<br>KETONE<br>WAT. WH.<br>TOTAL<br>(UG/L)<br>(78133)   | METHYL-<br>ETHYL-<br>KETONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(81595) | BROMO-<br>BENZENE<br>WATER,<br>WHOLE,<br>TOTAL<br>(UG/L)<br>(81555)             | CHLORO-<br>BENZENE<br>TOTAL<br>(UG/L)<br>(34301)                                | BENZENE<br>O-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34536)           | BENZENE<br>1,3-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34566) | BENZENE<br>1,4-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34571)  | 1,2,3-<br>TRI-<br>CHLORO-<br>BENZENE<br>WAT. WH<br>REC<br>(UG/L)<br>(77613)       |
| MAY<br>07... | <5.00                                                                    | <5.00                                                                         | E0.200                                                                   | <5.00                                                                           | <0.050                                                                      | <0.050                                                                          | <0.050                                                                          | <0.050                                                                                | <0.050                                                                        | <0.200                                                                         | <0.200                                                                            |
| DATE         | O-<br>CHLORO-<br>TOLUENE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77275) | TOLUENE<br>P-CHLOR<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77277)            | CARBON<br>DI.<br>SULFIDE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77041) | METHAC-<br>RYLATE<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(73570) | METHYL<br>ACRY-<br>LATE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(49991) | METH-<br>ACRYLO-<br>NITRITE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81593) | METHAC-<br>RYLATE<br>METHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81597) | ACRO-<br>LEIN<br>TOTAL<br>(UG/L)<br>(34210)                                           | ACRYLO-<br>NITRILE<br>TOTAL<br>(UG/L)<br>(34215)                              | ACETATE<br>VINYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77057)           |                                                                                   |
| MAY<br>07... | <0.050                                                                   | <0.050                                                                        | E0.040                                                                   | <1.00                                                                           | <2.00                                                                       | <2.00                                                                           | <1.00                                                                           | <2.00                                                                                 | <2.00                                                                         | <5.00                                                                          |                                                                                   |

## QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

OBION COUNTY TENNESSEE

362552089032001 CITY OF UNION CITY

|           |                                                      | PUMP OR FLOW PERIOD PRIOR TO SAM-PLING              |                                                       |                                                       |                                                         |                                                        |                                                              |                                                        |                                                        |                                                           | SPE-CIFIC CON-DUCT-ANCE                        |  |
|-----------|------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------|--|
| DATE      | TIME                                                 | GEO-LOGIC UNIT                                      | DEPTH OF WELL, TOTAL (FEET) (72008)                   | TO SAM-PLING (MIN) (72004)                            | SAMPLE SOURCE (72005)                                   | SAMPLER TYPE (CODE) (84164)                            | SAM-PLING CONDI-TION (72006)                                 | SAM-PLING METHOD, CODES (82398)                        | WELL PURGING CONDI-TION (CODE) (84143)                 | (US/CM) (00095)                                           |                                                |  |
| MAY 01... | 0900                                                 | 124MMPS                                             | 886.00                                                | 60                                                    | 1                                                       | 4040                                                   | 0.10                                                         | 4040                                                   | 160                                                    | 111                                                       |                                                |  |
| DATE      | TEMPER-ATURE WATER (DEG C) (00010)                   | OXYGEN, DIS-SOLVED (MG/L) (00300)                   | CALCIUM DIS-SOLVED (MG/L) (00915)                     | MAGNE-SIUM, DIS-SOLVED (MG/L) (00925)                 | SODIUM, DIS-SOLVED (MG/L) (00930)                       | POTAS-SIUM, DIS-SOLVED (MG/L) (00935)                  | BICAR-BONATE WATER DIS IT FIELD HCO3 (00453)                 | ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CAC03 (39086) | SULFATE DIS-SOLVED (MG/L) (00945)                      |                                                           |                                                |  |
| MAY 01... | 18.5                                                 | <0.1                                                | 10                                                    | 3.8                                                   | 5.7                                                     | 1.1                                                    | 67                                                           | 55                                                     | 2.1                                                    |                                                           |                                                |  |
| DATE      | CHLO-RIDE, DIS-SOLVED (MG/L) (00940)                 | FLUO-RIDE, DIS-SOLVED (MG/L) (00950)                | BROMIDE DIS-SOLVED (MG/L) (71870)                     | SILICA, DIS-SOLVED (MG/L) (00955)                     | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L) (00613)           | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) (00631)                 | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) (00608)           | NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L) (00623)      |                                                           |                                                |  |
| MAY 01... | 1.5                                                  | <0.10                                               | 0.030                                                 | 9.7                                                   | 64                                                      | <0.010                                                 | <0.050                                                       | 0.040                                                  | <0.20                                                  |                                                           |                                                |  |
| DATE      | PHOS-PHORUS DIS-SOLVED (MG/L) (00666)                | PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L) (00671)        | IRON, DIS-SOLVED (UG/L) (01046)                       | MANGA-NESE, DIS-SOLVED (UG/L) (01056)                 | RADON 222 TOTAL (PCI/L) (82303)                         | RN-222 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L) (76002)    | TRITIUM 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L) (07000)         | TRITIUM 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L) (75985)   | CARBON, ORGANIC DIS-SOLVED (MG/L) (00681)              |                                                           |                                                |  |
| MAY 01... | <0.010                                               | 0.010                                               | 560                                                   | 9.0                                                   | 78                                                      | 16                                                     | <1.0                                                         | 1.0                                                    | 0.20                                                   |                                                           |                                                |  |
| DATE      | ACETO-CHLOR, WATER, FLTRD REC (UG/L) (49260)         | ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)         | METO-LACHLOR WATER DISSOLV GF, REC (UG/L) (39415)     | NAPROP-AMIDE WATER FLTRD GF, REC (UG/L) (82684)       | PRON-AMIDE WATER FLTRD GF, REC (UG/L) (82676)           | PROP-CHLOR, WATER, DISS, REC (UG/L) (04024)            | PRO-PANIL WATER FLTRD GF, REC (UG/L) (82679)                 | ALDI-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (49312)    | ALDI-CARB SULFONE, WAT, FLT GF 0.7U REC (UG/L) (49313) | ALDICA-RB SUL-FOXIDE, WAT, FLT GF 0.7U REC (UG/L) (49314) | BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)     |  |
| MAY 01... | <0.002                                               | <0.002                                              | <0.002                                                | <0.003                                                | <0.003                                                  | <0.007                                                 | <0.004                                                       | <0.016                                                 | <0.016                                                 | <0.021                                                    | <0.002                                         |  |
| DATE      | CAR-BARYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49310)  | CAR-BARYL, WATER, FLTRD, GF 0.7U REC (UG/L) (82680) | CARBO-FURAN, WATER, FLTRD, GF 0.7U REC (UG/L) (49309) | CARBO-FURAN, WATER, FLTRD, GF 0.7U REC (UG/L) (82674) | 3HYDRXY CARBO-FURAN WAT, FLT GF 0.7U REC (UG/L) (49308) | EPTC WATER FLTRD GF, REC (UG/L) (82668)                | METHIO-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (38501)        | METH-OMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49296)    | MOL-INATE WATER, FLTRD, GF 0.7U REC (UG/L) (82671)     | OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)          | PEB-ULATE WATER, FLTRD, GF, REC (UG/L) (82669) |  |
| MAY 01... | <0.008                                               | <0.003                                              | <0.028                                                | <0.003                                                | <0.014                                                  | <0.002                                                 | <0.026                                                       | <0.017                                                 | <0.004                                                 | <0.018                                                    | <0.004                                         |  |
| DATE      | PRO-PHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)   | PRO-POXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538) | THIO-BENCARB WATER FLTRD GF, REC (UG/L) (82681)       | TRIAL-LATE WATER FLTRD GF, REC (UG/L) (82678)         | 2,4-D, DIS-SOLVED (UG/L) (39732)                        | DICHLOR PROP, WATER, FLTRD, GF 0.7U REC (UG/L) (49302) | 2,4-DB WATER, FLTRD, GF 0.7U REC (UG/L) (38746)              | MCPA, WATER, FLTRD, GF 0.7U REC (UG/L) (38482)         | MCPB, WATER, FLTRD, GF 0.7U REC (UG/L) (38487)         | SILVEX, DIS-SOLVED (UG/L) (39762)                         | 2,4,5-T DIS-SOLVED (UG/L) (39742)              |  |
| MAY 01... | <0.035                                               | <0.035                                              | <0.002                                                | <0.001                                                | <0.035                                                  | <0.032                                                 | <0.035                                                       | <0.050                                                 | <0.035                                                 | <0.021                                                    | <0.035                                         |  |
| DATE      | TRI-CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235) | BEN-FLUR-ALIN WAT FLD GF, REC (UG/L) (82673)        | ETHAL-ALIN WAT FLT GF, REC (UG/L) (82663)             | ORY-ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292)   | PENDI-METH-ALIN WAT FLT GF, REC (UG/L) (82683)          | TRI-FLUR-ALIN WAT FLT GF, REC (UG/L) (82661)           | CHLORO-THALO-NIL, WAT, FLT GF 0.7U DIS-SOLVED (UG/L) (34253) | DCPA WATER, FLTRD, GF 0.7U REC (UG/L) (49306)          | DACTHAL MONO-ACID, WAT, FLT GF 0.7U REC (UG/L) (82682) | P, P' DDE DISSOLV (UG/L) (49304)                          | P, P' DDE DISSOLV (UG/L) (34653)               |  |
| MAY 01... | <0.050                                               | <0.002                                              | <0.004                                                | <0.019                                                | <0.004                                                  | <0.002                                                 | <0.002                                                       | <0.035                                                 | <0.002                                                 | <0.017                                                    | <0.006                                         |  |

## WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## OBION COUNTY TENNESSEE--Continued

362552089032001 CITY OF UNION CITY--Continued

| DATE         | DICHLOR-<br>BENIL,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49303) | DI-<br>ELDRIN<br>DIS-<br>SOLVED<br>(UG/L)<br>(39381)                            | LINDANE<br>DIS-<br>SOLVED<br>(UG/L)<br>(39341)                             | METHYL<br>PHOS<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82686)              | CHLOR-<br>PYRIFOS<br>DIS-<br>SOLVED<br>(UG/L)<br>(38933)                     | DI-<br>AZINON,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39572)                         | DISUL-<br>FOTON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82677)  | ETHO-<br>PROP<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82672)         | FONOFOS<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(04095)                           | MALA-<br>THION,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39532)                         | METHYL<br>PARA-<br>THION<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82667) |
|--------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| MAY<br>01... | <0.020                                                                        | <0.001                                                                          | <0.004                                                                     | <0.001                                                                          | <0.004                                                                       | <0.002                                                                        | <0.017                                                                      | <0.003                                                                           | <0.003                                                                         | <0.005                                                                         | <0.006                                                                       |
| DATE         | PARA-<br>THION,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39542)                        | PHORATE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82664)              | TER-<br>BUFOS<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82675)   | PER-<br>METHRIN<br>CIS<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82687)      | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632)                | DEETHYL<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040)               | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)              | METRI-<br>BUZIN<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82630)       | PRO-<br>METON,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04037)                  | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035)                  | BRO-<br>MACIL,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04029)                |
| MAY<br>01... | <0.004                                                                        | <0.002                                                                          | <0.013                                                                     | <0.005                                                                          | <0.001                                                                       | <0.002                                                                        | <0.004                                                                      | <0.004                                                                           | <0.018                                                                         | <0.005                                                                         | <0.035                                                                       |
| DATE         | TER-<br>BACIL<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82665)      | FEN-<br>URON,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49297)       | DIURON,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49300)        | FLUO-<br>METURON<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(38811)    | LINURON<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(38478)          | LIN-<br>URON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82666)       | NEB-<br>URON,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49294)   | TEBU-<br>THIURON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82670)      | ACIFL-<br>UORFEN<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49315)   | BENTA-<br>ZON,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(38711)     | BRO-<br>MOXYNIL<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49311)  |
| MAY<br>01... | <0.007                                                                        | <0.013                                                                          | <0.020                                                                     | <0.035                                                                          | <0.018                                                                       | <0.002                                                                        | <0.015                                                                      | <0.010                                                                           | <0.035                                                                         | <0.014                                                                         | <0.035                                                                       |
| DATE         | CHLOR-<br>AMEN,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49307)    | CLOPYR-<br>ALID,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49305)     | DICAMBA<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(38442)         | 2,6-DI-<br>ETHYL<br>ANILINE<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82660) | DINOSEB<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49301)           | DNOC<br>WAT, FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49299)                       | ESPEN-<br>VAL-<br>ERATE,<br>WAT, FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49298) | 1-NAPH-<br>THOL,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49295)      | NORFLUR<br>AZON,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49293)    | PIC-<br>LORAM,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49291)      | PRO-<br>PARGITE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82685)   |
| MAY<br>01... | <0.011                                                                        | <0.050                                                                          | <0.035                                                                     | <0.003                                                                          | <0.035                                                                       | <0.035                                                                        | <0.019                                                                      | <0.007                                                                           | <0.024                                                                         | <0.050                                                                         | <0.013                                                                       |
| DATE         | 1,2-<br>DIBROMO<br>ETHANE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77651)     | CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34311)                                 | 1,1-DI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34496)                 | 1,2-DI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(32103)                      | 1,1,1-<br>TRI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34506)            | 1,1,2-<br>TRI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34511)             | FREON-<br>113<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77652)               | ETHANE,<br>1112-<br>TETRA-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(77562)     | ETHANE,<br>1,1,2,2<br>TETRA-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(34516) | ETHANE<br>HEXA-<br>CHLORO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(34396) | METHYL-<br>BROMIDE<br>TOTAL<br>(UG/L)<br>(34413)                             |
| MAY<br>01... | <0.100                                                                        | <0.100                                                                          | <0.050                                                                     | <0.050                                                                          | <0.050                                                                       | <0.100                                                                        | <0.050                                                                      | <0.050                                                                           | <0.100                                                                         | <0.050                                                                         | <0.100                                                                       |
| DATE         | METHANE<br>BROMO<br>CHLORO-<br>WAT<br>UNFLTRD<br>REC<br>(UG/L)<br>(77297)     | DI-<br>CHLORO-<br>BROMO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(32101)               | DI-<br>BROMO-<br>METHANE<br>WATER<br>WHOLE<br>RECOVER<br>(UG/L)<br>(30217) | BROMO-<br>FORM<br>TOTAL<br>(UG/L)<br>(32104)                                    | METHYL-<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(34418)                       | CHLORO-<br>DI-<br>BROMO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(32105)             | METHYL-<br>ENE<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(34423)               | DI-<br>CHLORO-<br>DI-<br>FLUORO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(34668)        | CHLORO-<br>FORM<br>TOTAL<br>(UG/L)<br>(32106)                                  | TRI-<br>CHLORO-<br>FLUORO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(34488)            | CARBON-<br>TETRA-<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(32102)             |
| MAY<br>01... | <0.100                                                                        | <0.100                                                                          | <0.100                                                                     | <0.200                                                                          | <0.200                                                                       | <0.100                                                                        | <0.100                                                                      | <0.200                                                                           | <0.050                                                                         | <0.100                                                                         | <0.050                                                                       |
| DATE         | METHYL<br>IODIDE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77424)          | DIBROMO<br>CHLORO-<br>PROPANE<br>WATER<br>WHOLE<br>TOT.REC<br>(UG/L)<br>(82625) | 1,2-DI-<br>CHLORO-<br>PROPANE<br>TOTAL<br>(UG/L)<br>(34541)                | 1,3-DI-<br>CHLORO-<br>PROPANE<br>WAT. WH<br>TOTAL<br>(UG/L)<br>(77173)          | 2,2-DI-<br>CHLORO-<br>PRO-<br>PANE<br>WAT, WH<br>TOTAL<br>(UG/L)<br>(77170)  | 123-TRI<br>CHLORO-<br>PROPANE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77443) | HEXA-<br>CHLORO-<br>BUT-<br>ADIENE<br>TOTAL<br>(UG/L)<br>(39702)            | 2BUTENE<br>TRANS-1<br>4-DI-<br>CHLORO<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(73547) | BROMO-<br>ETHENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50002)           | VINYL<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(39175)                           | 1,1-DI-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(34501)            |
| MAY<br>01... | <0.050                                                                        | <0.500                                                                          | <0.050                                                                     | <0.050                                                                          | <0.050                                                                       | <0.200                                                                        | <0.200                                                                      | <5.00                                                                            | <0.100                                                                         | <0.100                                                                         | <0.100                                                                       |
| DATE         | CIS-1,2<br>-DI-<br>CHLORO-<br>ETHENE<br>WATER<br>TOTAL<br>(UG/L)<br>(77093)   | 1,2-<br>TRANSDI<br>CHLORO-<br>ETHENE<br>TOTAL<br>(UG/L)<br>(34546)              | TRI-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(39180)             | TETRA-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(34475)                | PROPENE<br>3-<br>CHLORO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(78109) | 1,1-DI<br>CHLORO-<br>PRO-<br>PENE,<br>WAT, WH<br>TOTAL<br>(UG/L)<br>(77168)   | CIS<br>1,3-DI-<br>CHLORO-<br>PROPENE<br>TOTAL<br>(UG/L)<br>(34704)          | TRANS-<br>1,3-DI-<br>CHLORO-<br>PROPENE<br>TOTAL<br>(UG/L)<br>(34699)            | BENZENE<br>N-BUTYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77342)             | BENZENE<br>SEC<br>BUTYL-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77350)       | BENZENE<br>TERT-<br>BUTYL-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77353)   |
| MAY<br>01... | <0.050                                                                        | <0.050                                                                          | <0.050                                                                     | <0.050                                                                          | <0.100                                                                       | <0.050                                                                        | <0.100                                                                      | <0.100                                                                           | <0.050                                                                         | <0.050                                                                         | <0.050                                                                       |



## QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

OBION COUNTY TENNESSEE--Continued

362552089032001 CITY OF UNION CITY--Continued

| DATE         | ETHYL-<br>BENZENE<br>TOTAL<br>(UG/L)<br>(34371)                               | TOLUENE<br>TOTAL<br>(UG/L)<br>(34010)                                      | O-<br>XYLENE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77135)                  | META/<br>PARA-<br>XYLENE<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(85795)        | BENZENE<br>123-TRI<br>METHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77221) | BENZENE<br>124-TRI<br>METHYL<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77222)         | BENZENE<br>135-TRI<br>METHYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77226)    | PREH-<br>NITENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(49999)                   | ISO-<br>DURENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50000)            | ISO-<br>PROPYL-<br>BENZENE<br>WATER<br>WHOLE<br>REC<br>(UG/L)<br>(77223)                | BENZENE<br>N-PROPYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77224)                    |
|--------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| MAY<br>01... | <0.050                                                                        | <0.050                                                                     | <0.050                                                                        | <0.050                                                                          | <0.050                                                                            | E0.020                                                                          | <0.050                                                                          | <0.050                                                                                | <0.050                                                                        | <0.050                                                                                  | <0.050                                                                                 |
| DATE         | TOLUENE<br>O-ETHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77220)        | P-ISO-<br>PROPYL-<br>TOLUENE<br>WATER<br>WHOLE<br>REC<br>(UG/L)<br>(77356) | BENZENE<br>TOTAL<br>(UG/L)<br>(34030)                                         | NAPHTH-<br>ALENE<br>TOTAL<br>(UG/L)<br>(34696)                                  | STYRENE<br>TOTAL<br>(UG/L)<br>(77128)                                             | ACETONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(81552)                         | ETHER<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81576)             | ETHER<br>TERT-<br>BUTYL<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50004) | METHYL<br>TERT-<br>BUTYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(78032)      | ETHER<br>TERT-<br>PENTYL<br>METHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50005) | DI-ISO-<br>PROPYL-<br>ETHER,<br>WATER,<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81577)      |
| MAY<br>01... | <0.050                                                                        | <0.050                                                                     | <0.050                                                                        | <0.200                                                                          | <0.050                                                                            | <5.00                                                                           | <0.100                                                                          | <0.100                                                                                | <0.100                                                                        | <0.100                                                                                  | <0.100                                                                                 |
| DATE         | FURAN<br>TETRA-<br>HYDRO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81607) | 2-HEXA-<br>NONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77103)            | METHYL-<br>ISO-<br>BUTYL-<br>KETONE<br>WAT. WH.<br>TOTAL<br>(UG/L)<br>(78133) | METHYL-<br>ETHYL-<br>KETONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(81595)     | BROMO-<br>BENZENE<br>WATER,<br>WHOLE,<br>TOTAL<br>(UG/L)<br>(81555)               | CHLORO-<br>BENZENE<br>TOTAL<br>(UG/L)<br>(34301)                                | BENZENE<br>O-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34536)     | BENZENE<br>1,3-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34566)         | BENZENE<br>1,4-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34571) | 1,2,3-<br>TRI-<br>CHLORO-<br>BENZENE<br>WAT. WH<br>REC<br>(UG/L)<br>(77613)             | BENZENE<br>1,2,4-<br>TRI-<br>CHLORO-<br>BENZENE<br>WAT UNF<br>REC<br>(UG/L)<br>(34551) |
| MAY<br>01... | <5.00                                                                         | <5.00                                                                      | <5.00                                                                         | <5.00                                                                           | <0.050                                                                            | <0.050                                                                          | <0.050                                                                          | <0.050                                                                                | <0.050                                                                        | <0.200                                                                                  | <0.200                                                                                 |
| DATE         | O-<br>CHLORO-<br>TOLUENE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77275)      | P-CHLOR<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77277)                    | CARBON<br>DI.<br>SULFIDE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77041)      | METHAC-<br>RYLATE<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(73570) | METHYL<br>ACRY-<br>LATE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(49991)       | METH-<br>ACRYLO-<br>NITRITE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81593) | METHAC-<br>RYLATE<br>METHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81597) | ACRO-<br>LEIN<br>TOTAL<br>(UG/L)<br>(34210)                                           | ACRYLO-<br>NITRILE<br>TOTAL<br>(UG/L)<br>(34215)                              | ACETATE<br>VINYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77057)                    |                                                                                        |
| MAY<br>01... | <0.050                                                                        | <0.050                                                                     | <0.050                                                                        | <1.00                                                                           | <2.00                                                                             | <2.00                                                                           | <1.00                                                                           | <2.00                                                                                 | <2.00                                                                         | <2.00                                                                                   | <5.00                                                                                  |

## WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## SHELBY COUNTY TENNESSEE

350500089481801 CITY OF GERMANTOWN

|           |        |                                                  |                                                    | PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)        |                                                    |                                                          |                                                    |                                                    |                                                              | SPE-CIFIC CON-DUCT-ANCE (US/CM)                               |                                                       |                                                  |
|-----------|--------|--------------------------------------------------|----------------------------------------------------|-----------------------------------------------------|----------------------------------------------------|----------------------------------------------------------|----------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------|
| DATE      | TIME   | GEO-LOGIC UNIT                                   | DEPTH OF WELL, TOTAL (FEET)                        | (72008)                                             | (72004)                                            | SAMPLE SOURCE (72005)                                    | SAMPLER TYPE (CODE) (84164)                        | SAM-PLING CONDI-TION (72006)                       | SAM-PLING METHOD, CODES (82398)                              | WELL PURGING CONDI-TION (CODE) (84143)                        | (00095)                                               |                                                  |
| MAY 06... | 1400   | 124MMPS                                          | 314.00                                             | >60                                                 |                                                    | 1                                                        | 4040                                               | 0.10                                               | 4040                                                         | 160                                                           | 68                                                    |                                                  |
| DATE      |        | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)   | TEMPER-ATURE WATER (DEG C) (00010)                 | OXYGEN, DIS- SOLVED (MG/L) (00300)                  | CALCIUM DIS- SOLVED (MG/L AS CA) (00915)           | MAGNE-SIUM, DIS- SOLVED (MG/L AS MG) (00925)             | SODIUM, DIS- SOLVED (MG/L AS NA) (00930)           | POTAS-SIUM, DIS- SOLVED (MG/L AS K) (00935)        | BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3 CAC03) (00453) | ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CAC03) (39086)      | SULFATE DIS- SOLVED (MG/L AS SO4) (00945)             |                                                  |
| MAY 06... | 6.0    | 17.0                                             | 3.5                                                | 4.6                                                 | 1.8                                                | 6.0                                                      | 0.60                                               | 34                                                 | 28                                                           | 1.8                                                           |                                                       |                                                  |
| DATE      |        | CHLO-RIDE, DIS- SOLVED (MG/L AS CL) (00940)      | FLUO-RIDE, DIS- SOLVED (MG/L AS F) (00950)         | BROMIDE DIS- SOLVED (MG/L AS BR) (71870)            | SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)         | SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300) | NITRO-GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) | NITRO-GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) | NITRO-GEN, AM-MONIA DIS- SOLVED (MG/L AS N) (00608)          | NITRO-GEN, AM-MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623) |                                                       |                                                  |
| MAY 06... | 3.1    | <0.10                                            | 0.040                                              | 12                                                  | 54                                                 | <0.010                                                   | 0.090                                              | <0.015                                             | <0.20                                                        |                                                               |                                                       |                                                  |
| DATE      |        | PHOS-PHORUS DIS- SOLVED (MG/L AS P) (00666)      | PHOS-PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) | IRON, DIS- SOLVED (UG/L AS FE) (01046)              | MANGA-NESE, DIS- SOLVED (UG/L AS MN) (01056)       | H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)           | O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)   | RADON 222 TOTAL (PCI/L) (82303)                    | RN-222 2 SIGMA WATER, WHOLE, SOLVED (MG/L AS C) (76002)      | CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)               |                                                       |                                                  |
| MAY 06... | <0.010 | <0.010                                           | <3.0                                               | <1.0                                                | -29.8                                              | -5.37                                                    | 75                                                 | 15                                                 | 0.20                                                         |                                                               |                                                       |                                                  |
| DATE      |        | ACETO-CHLOR, WATER, FLTRD, REC (UG/L) (49260)    | ALA-CHLOR, WATER, DISS, REC (UG/L) (46342)         | METO-LACHLOR, WATER, DISSOLV (UG/L) (39415)         | NAPROP-AMIDE WATER, FLTRD 0.7 U (UG/L) (82684)     | PRON-AMIDE WATER, FLTRD 0.7 U (UG/L) (82676)             | PROP-CHLOR, WATER, DISS, REC (UG/L) (04024)        | PRO-PANIL, WATER, FLTRD 0.7 U (UG/L) (82679)       | ALDI-CARB, WATER, FLTRD, GF 0.7U (UG/L) (49312)              | ALDI-CARB, SULFONE, WAT, FLT GF 0.7U (UG/L) (49313)           | ALDICA-RB SUL-FOXIDE, WAT, FLT GF 0.7U (UG/L) (49314) | BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)       |
| MAY 06... | <0.002 | <0.002                                           | <0.002                                             | <0.003                                              | <0.003                                             | <0.007                                                   | <0.004                                             | <0.016                                             | <0.016                                                       | <0.021                                                        | <0.002                                                |                                                  |
| DATE      |        | CAR-BARYL, WATER, FLTRD, GF 0.7U (UG/L) (49310)  | CAR-BARYL, WATER, FLTRD, GF 0.7 U (UG/L) (82680)   | CARBO-FURAN, WATER, FLTRD, GF 0.7U (UG/L) (49309)   | CARBO-FURAN, WATER, FLTRD, GF 0.7 U (UG/L) (82674) | 3HYDRXY CARBO-WAT, FLT GF 0.7U (UG/L) (49308)            | EPTC WATER, FLTRD, GF 0.7 U (UG/L) (82668)         | METHIO-CARB, WATER, FLTRD, REC (UG/L) (38501)      | METH-OMYL, WATER, FLTRD, REC (UG/L) (49296)                  | MOL-INATE, WATER, FLTRD, GF 0.7 U (UG/L) (82671)              | OXAMYL, WATER, FLTRD, GF 0.7U (UG/L) (38866)          | PEB-ULATE, WATER, FILTRD, GF 0.7U (UG/L) (82669) |
| MAY 06... | <0.008 | <0.003                                           | <0.028                                             | <0.003                                              | <0.014                                             | <0.002                                                   | <0.026                                             | <0.017                                             | <0.004                                                       | <0.018                                                        | <0.004                                                |                                                  |
| DATE      |        | PRO-PHAM, WATER, FLTRD, GF 0.7U (UG/L) (49236)   | PRO-POXUR, WATER, FLTRD, GF 0.7U (UG/L) (38538)    | THIO-BENCARB, WATER, FLTRD, GF 0.7 U (UG/L) (82681) | TRIAL-LATE WATER, FLTRD, GF 0.7 U (UG/L) (82678)   | 2,4-D, DIS- SOLVED (UG/L) (39732)                        | DICHLOR PROP, WATER, FLTRD, GF 0.7U (UG/L) (49302) | 2,4-DB WATER, FLTRD, GF 0.7U (UG/L) (38746)        | MCPA, WATER, FLTRD, REC (UG/L) (38482)                       | MCPB, WATER, FLTRD, REC (UG/L) (38487)                        | SILVEX, DIS- SOLVED (UG/L) (39762)                    | 2,4,5-T DIS- SOLVED (UG/L) (39742)               |
| MAY 06... | <0.035 | <0.035                                           | <0.002                                             | <0.001                                              | <0.035                                             | <0.032                                                   | <0.035                                             | <0.050                                             | <0.035                                                       | <0.021                                                        | <0.035                                                |                                                  |
| DATE      |        | TRI-CLOPYR, WATER, FLTRD, GF 0.7U (UG/L) (49235) | BEN-FLUR-ALIN, WAT FLD 0.7 U (UG/L) (82673)        | ETHAL-FLUR-ALIN, WAT FLT 0.7 U (UG/L) (82663)       | ORY-ZALIN, WATER, FLTRD, GF 0.7U (UG/L) (49292)    | PENDI-METH-ALIN, WAT FLT 0.7 U (UG/L) (82683)            | TRI-FLUR-ALIN, WAT FLT 0.7 U (UG/L) (82661)        | CHLORO-THALO-NIL, WAT, FLT GF 0.7U (UG/L) (49306)  | DCPA, WATER, FLTRD, GF 0.7 U (UG/L) (82682)                  | DACTHAL MONO-ACID, WAT, FLT GF 0.7U (UG/L) (49304)            | P, P' DDE DISSOLV (UG/L) (34653)                      |                                                  |
| MAY 06... | <0.050 | <0.002                                           | <0.004                                             | <0.019                                              | <0.004                                             | <0.002                                                   | <0.002                                             | <0.035                                             | <0.002                                                       | <0.017                                                        | <0.006                                                |                                                  |

## WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## SHELBY COUNTY TENNESSEE--Continued

## 350500089481801 CITY OF GERMANTOWN--Continued

| DATE         | DICHLOR-<br>BENIL,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49303)     | DI-<br>ELDRIN<br>DIS-<br>SOLVED<br>(UG/L)<br>(39381)                            | LINDANE<br>DIS-<br>SOLVED<br>(UG/L)<br>(39341)                           | METHYL<br>AZIN-<br>PHOS<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82686)     | CHLOR-<br>PYRIFOS<br>DIS-<br>SOLVED<br>(UG/L)<br>(38933)                     | DI-<br>AZINON,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39572)                          | DISUL-<br>FOTON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82677)     | ETHO-<br>PROP<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82672)                   | FONOFOS<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(04095)                            | MALA-<br>THION,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39532)                        | METHYL<br>PARA-<br>THION<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82667)   |
|--------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| MAY<br>06... | <0.020                                                                            | <0.001                                                                          | <0.004                                                                   | <0.001                                                                          | <0.004                                                                       | <0.002                                                                         | <0.017                                                                         | <0.003                                                                                     | <0.003                                                                          | <0.005                                                                        | <0.006                                                                         |
| DATE         | PARA-<br>THION,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39542)                            | PHORATE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82664)              | TER-<br>BUFOS<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82675) | PER-<br>METHRIN<br>CIS<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82687)      | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632)                | DEETHYL<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040)                | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)                 | METRI-<br>BUZIN<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82630)                 | PRO-<br>METON,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04037)                   | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035)                 | BRO-<br>MACIL,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04029)                  |
| MAY<br>06... | <0.004                                                                            | <0.002                                                                          | <0.013                                                                   | <0.005                                                                          | <0.001                                                                       | <0.002                                                                         | <0.004                                                                         | <0.004                                                                                     | <0.018                                                                          | <0.005                                                                        | <0.035                                                                         |
| DATE         | TER-<br>BACIL<br>URON,<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82665) | FEN-<br>URON,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>GF, REC<br>(UG/L)<br>(49297)    | DIURON,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>GF, REC<br>(UG/L)<br>(49300)   | FLUO-<br>METURON<br>WATER,<br>FLTRD,<br>GF 0.7U<br>GF, REC<br>(UG/L)<br>(38811) | LINURON<br>WATER,<br>FLTRD,<br>GF 0.7U<br>GF, REC<br>(UG/L)<br>(38478)       | LIN-<br>URON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82666)        | NEB-<br>URON,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>GF, REC<br>(UG/L)<br>(49294)   | TEBU-<br>THIURON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82670)                | ACIFL-<br>UORFEN<br>WATER,<br>FLTRD,<br>GF 0.7U<br>GF, REC<br>(UG/L)<br>(49315) | BENTA-<br>ZON,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>GF, REC<br>(UG/L)<br>(38711) | BRO-<br>MOXYNIL<br>WATER,<br>FLTRD,<br>GF 0.7U<br>GF, REC<br>(UG/L)<br>(49311) |
| MAY<br>06... | <0.007                                                                            | <0.013                                                                          | <0.020                                                                   | <0.035                                                                          | <0.018                                                                       | <0.002                                                                         | <0.015                                                                         | <0.010                                                                                     | <0.035                                                                          | <0.014                                                                        | <0.035                                                                         |
| DATE         | CHLOR-<br>AMBN,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49307)        | CLOPYR-<br>ALID,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>GF, REC<br>(UG/L)<br>(49305) | DICAMBA<br>WATER,<br>FLTRD,<br>GF 0.7U<br>GF, REC<br>(UG/L)<br>(38442)   | 2,6-DI-<br>ETHYL<br>ANILINE<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82660) | DINOSEB<br>WATER,<br>FLTRD,<br>GF 0.7U<br>GF, REC<br>(UG/L)<br>(49301)       | DNOC<br>WAT,FLT<br>GF 0.7U<br>GF, REC<br>(UG/L)<br>(49299)                     | ESFEN-<br>VAL-<br>ERATE,<br>WAT,FLT<br>GF 0.7U<br>GF, REC<br>(UG/L)<br>(49298) | 1-NAPH<br>THOL,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>GF, REC<br>(UG/L)<br>(49295)             | NORFLUR<br>AZON,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>GF, REC<br>(UG/L)<br>(49293) | PIC-<br>LORAM,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>GF, REC<br>(UG/L)<br>(49291) | PRO-<br>MORGITE<br>WATER,<br>FLTRD,<br>GF 0.7U<br>GF, REC<br>(UG/L)<br>(82685) |
| MAY<br>06... | <0.011                                                                            | <0.050                                                                          | <0.035                                                                   | <0.003                                                                          | <0.035                                                                       | <0.035                                                                         | <0.019                                                                         | <0.007                                                                                     | <0.024                                                                          | <0.050                                                                        | <0.013                                                                         |
| DATE         | 1,2-<br>DIBROMO<br>ETHANE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77651)         | CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34311)                                 | 1,1-DI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34496)               | 1,2-DI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(32103)                      | 1,1,1-<br>TRI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34506)            | 1,1,2-<br>TRI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34511)              | FREON-<br>113<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77652)                  | ETHANE,<br>1112-<br>TETRA-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(77562)               | ETHANE,<br>1,1,2,2<br>TETRA-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(34516)  | ETHANE<br>CHLORO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(34396)         | METHYL-<br>BROMIDE<br>TOTAL<br>(UG/L)<br>(34413)                               |
| MAY<br>06... | <0.100                                                                            | <0.100                                                                          | <0.050                                                                   | <0.050                                                                          | <0.050                                                                       | <0.100                                                                         | <0.050                                                                         | <0.050                                                                                     | <0.100                                                                          | <0.050                                                                        | <0.100                                                                         |
| DATE         | METHANE<br>BROMO<br>CHLORO-<br>WAT<br>UNFLTRD<br>REC<br>(UG/L)<br>(77297)         | DI-<br>CHLORO-<br>WAT<br>METHANE<br>TOTAL<br>(UG/L)<br>(32101)                  | DI-<br>BROMO-<br>METHANE<br>WHOLE<br>RECOVER<br>(UG/L)<br>(30217)        | BROMO-<br>FORM<br>TOTAL<br>(UG/L)<br>(32104)                                    | METHYL-<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(34418)                       | CHLORO-<br>DI-<br>BROMO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(32105)              | METHYL-<br>ENE<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(34423)                  | DI-<br>CHLORO-<br>FLUORO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(34668)                         | CHLORO-<br>FORM<br>TOTAL<br>(UG/L)<br>(32106)                                   | TRI-<br>CHLORO-<br>CHLO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(34488)             | CARBON-<br>TETRA-<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(32102)               |
| MAY<br>06... | <0.100                                                                            | <0.100                                                                          | <0.100                                                                   | <0.200                                                                          | <0.200                                                                       | <0.100                                                                         | <0.100                                                                         | <0.200                                                                                     | E0.040                                                                          | <0.100                                                                        | <0.050                                                                         |
| DATE         | METHYL<br>IODIDE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77424)              | DIBROMO<br>CHLORO-<br>PROPANE<br>WHOLE<br>TOT. REC<br>(UG/L)<br>(82625)         | 1,2-DI-<br>CHLORO-<br>PROPANE<br>TOTAL<br>(UG/L)<br>(34541)              | 1,3-DI-<br>CHLORO-<br>PROPANE<br>WAT. WH<br>TOTAL<br>(UG/L)<br>(77173)          | 2,2-DI-<br>CHLORO-<br>PRO-<br>PANE<br>WAT. WH<br>TOTAL<br>(UG/L)<br>(77170)  | 123-TRI-<br>CHLORO-<br>PROPANE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77443) | HEXA-<br>CHLORO-<br>BUT-<br>ADIENE<br>TOTAL<br>(UG/L)<br>(39702)               | 2BUTENE<br>TRANS-1<br>4-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(73547) | BROMO-<br>ETHENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50002)            | VINYL<br>CHLORO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(39175)                        | 1,1-DI-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(34501)              |
| MAY<br>06... | <0.050                                                                            | <0.500                                                                          | <0.050                                                                   | <0.050                                                                          | <0.050                                                                       | <0.200                                                                         | <0.200                                                                         | <5.00                                                                                      | <0.100                                                                          | <0.100                                                                        | <0.100                                                                         |
| DATE         | CIS-1,2<br>DI-<br>CHLORO-<br>ETHENE<br>WATER<br>TOTAL<br>(UG/L)<br>(77093)        | 1,2-<br>TRANSDI<br>CHLORO-<br>ETHENE<br>TOTAL<br>(UG/L)<br>(34546)              | TRI-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(39180)           | TETRA-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(34475)                | PROPENE<br>3-<br>CHLORO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(78109) | 1,1-DI-<br>CHLORO-<br>PRO-<br>PENE,<br>WAT. WH<br>TOTAL<br>(UG/L)<br>(77168)   | CIS<br>1,3-DI-<br>CHLORO-<br>PROPENE<br>TOTAL<br>(UG/L)<br>(34704)             | TRANS-<br>1,3-DI-<br>CHLORO-<br>PROPENE<br>TOTAL<br>(UG/L)<br>(34699)                      | BENZENE<br>N-BUTYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77342)              | BENZENE<br>SEC<br>BUTYL-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77350)      | BENZENE<br>TERT-<br>BUTYL-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77353)     |
| MAY<br>06... | <0.050                                                                            | <0.050                                                                          | <0.050                                                                   | <0.050                                                                          | <0.100                                                                       | <0.050                                                                         | <0.100                                                                         | <0.100                                                                                     | <0.050                                                                          | <0.050                                                                        | <0.050                                                                         |

## WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## SHELBY COUNTY TENNESSEE--Continued

## 350500089481801 CITY OF GERMANTOWN--Continued

| DATE | ETHYL-<br>BENZENE<br>TOTAL<br>(UG/L)<br>(34371)                               | TOLUENE<br>TOTAL<br>(UG/L)<br>(34010)                                      | O-<br>XYLENE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77135)                  | META/<br>PARA-<br>XYLENE<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(85795)        | BENZENE<br>123-TRI<br>METHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77221) | BENZENE<br>124-TRI<br>METHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77222) | BENZENE<br>135-TRI<br>METHYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77226)    | PREH-<br>NITENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(49999)           | ISO-<br>DURENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50000)            | ISO-<br>PROPYL-<br>BENZENE<br>WATER<br>WHOLE<br>REC<br>(UG/L)<br>(77223)       | BENZENE<br>N-PROPYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77224)              |
|------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
|      | MAY<br>06...                                                                  | <0.050                                                                     | <0.050                                                                        | <0.050                                                                          | <0.050                                                                            | <0.050                                                                           | E0.030                                                                          | <0.050                                                                        | <0.050                                                                        | <0.050                                                                         | <0.050                                                                           |
| DATE | TOLUENE<br>O-ETHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77220)        | P-ISO-<br>PROPYL-<br>TOLUENE<br>WATER<br>WHOLE<br>REC<br>(UG/L)<br>(77356) | BENZENE<br>TOTAL<br>(UG/L)<br>(34030)                                         | NAPHTH-<br>ALENE<br>TOTAL<br>(UG/L)<br>(34696)                                  | STYRENE<br>TOTAL<br>(UG/L)<br>(77128)                                             | ACETONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(81552)                          | ETHER<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81576)             | ETHER<br>TERT-<br>BUTYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50004)   | METHYL<br>TERT-<br>BUTYL<br>ETHER<br>WAT UNF<br>REC<br>(UG/L)<br>(78032)      | ETHER<br>TERT-<br>PENTYL<br>METHYL-<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50005) | DI-ISO-<br>PROPYL-<br>ETHER,<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81577) |
|      | MAY<br>06...                                                                  | <0.050                                                                     | <0.050                                                                        | <0.050                                                                          | <0.200                                                                            | <0.050                                                                           | <5.00                                                                           | <0.100                                                                        | <0.100                                                                        | <0.100                                                                         | <0.100                                                                           |
| DATE | FURAN<br>TETRA-<br>HYDRO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81607) | 2-HEXA-<br>NONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77103)            | METHYL-<br>ISO-<br>BUTYL-<br>KETONE<br>WAT. WH.<br>TOTAL<br>(UG/L)<br>(78133) | METHYL-<br>ETHYL-<br>KETONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(81595)     | BROMO-<br>BENZENE<br>WATER,<br>WHOLE,<br>TOTAL<br>(UG/L)<br>(81555)               | CHLORO-<br>BENZENE<br>UNFLTRD<br>TOTAL<br>(UG/L)<br>(34301)                      | BENZENE<br>O-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34536)     | BENZENE<br>1,3-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34566) | BENZENE<br>1,4-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34571) | 1,2,3-<br>TRI-<br>CHLORO-<br>BENZENE<br>WAT, WH<br>REC<br>(UG/L)<br>(77613)    | BENZENE<br>1,2,4-<br>TRI-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(34551)      |
|      | MAY<br>06...                                                                  | <5.00                                                                      | <5.00                                                                         | <5.00                                                                           | <5.00                                                                             | <0.050                                                                           | <0.050                                                                          | <0.050                                                                        | <0.050                                                                        | <0.200                                                                         | <0.200                                                                           |
| DATE | O-<br>CHLORO-<br>TOLUENE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77275)      | TOLUENE<br>P-CHLOR<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77277)         | CARBON<br>DI-<br>SULFIDE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77041)      | METHAC-<br>RYLATE<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(73570) | METHYL<br>ACRY-<br>LATE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(49991)       | METH-<br>ACRYLO-<br>NITRITE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81593)  | METHAC-<br>RYLATE<br>METHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81597) | ACRO-<br>LEIN<br>TOTAL<br>(UG/L)<br>(34210)                                   | ACRYLO-<br>NITRILE<br>TOTAL<br>(UG/L)<br>(34215)                              | ACETATE<br>VINYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77057)           |                                                                                  |
|      | MAY<br>06...                                                                  | <0.050                                                                     | <0.050                                                                        | <0.050                                                                          | <1.00                                                                             | <2.00                                                                            | <2.00                                                                           | <1.00                                                                         | <2.00                                                                         | <2.00                                                                          | <5.00                                                                            |

## 352034089534501 CITY OF MILLINGTON

|     |       |                                        |                                            | PUMP                                    |                                      |                                                     |                                             |                                             |                                                 |                                        |                                   |
|-----|-------|----------------------------------------|--------------------------------------------|-----------------------------------------|--------------------------------------|-----------------------------------------------------|---------------------------------------------|---------------------------------------------|-------------------------------------------------|----------------------------------------|-----------------------------------|
|     |       | GEO-LOGIC UNIT                         | DEPTH OF WELL, TOTAL (FEET)                | OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) | SAMPLE SOURCE                        | SAMPLER TYPE (CODE)                                 | SAM-PLING CONDI-TION                        | SAM-PLING METHOD, CODES                     | WELL PURGING CONDI-TION (CODE)                  | SPE-CIFIC CON-DUCT-ANCE (US/CM)        |                                   |
|     |       |                                        | (72008)                                    | (72004)                                 | (72005)                              | (84164)                                             | (72006)                                     | (82398)                                     | (84143)                                         | (00095)                                |                                   |
| MAY | 07... | 1400                                   | 124FRPL                                    | 1466                                    | >60                                  | 1                                                   | 4040                                        | 0.10                                        | 4040                                            | 160                                    | 179                               |
|     |       | PH WATER WHOLE FIELD (STAND-ARD UNITS) | TEMPER-ATURE WATER (DEG C)                 | OXYGEN, DIS- SOLVED (MG/L)              | CALCIUM DIS- SOLVED (MG/L AS CA)     | MAGNE-SIUM, DIS- SOLVED (MG/L AS MG)                | SODIUM, DIS- SOLVED (MG/L AS NA)            | POTAS-SIUM, DIS- SOLVED (MG/L AS K)         | BICAR-BONATE WATER DIS IT FIELD HCO3            | ALKA-LINITY WAT DIS TOT IT FIELD CAC03 | SULFATE DIS- SOLVED (MG/L AS SO4) |
|     |       | (00400)                                | (00010)                                    | (00300)                                 | (00915)                              | (00925)                                             | (00930)                                     | (00935)                                     | (00453)                                         | (39086)                                | (00945)                           |
| MAY | 07... | 6.8                                    | 23.0                                       | <0.1                                    | 1.6                                  | 0.62                                                | 39                                          | 1.4                                         | 124                                             | 102                                    | 5.2                               |
|     |       | CHLO-RIDE, DIS- SOLVED (MG/L AS CL)    | FLUO-RIDE, DIS- SOLVED (MG/L AS F)         | BROMIDE DIS- SOLVED (MG/L AS BR)        | SILICA, DIS- SOLVED (MG/L AS SIO2)   | SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L AS) | NITRO-GEN, NITRITE DIS- SOLVED (MG/L AS N)  | NITRO-GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)  | NITRO-GEN, AMMONIA DIS- SOLVED (MG/L AS N)      | NITRO-GEN, AM-MONIA + ORGANIC DIS- S.  | (MG/L AS N)                       |
|     |       | (00940)                                | (00950)                                    | (71870)                                 | (00955)                              | (70300)                                             | (00613)                                     | (00631)                                     | (00608)                                         | (00623)                                |                                   |
| MAY | 07... | 0.60                                   | 0.10                                       | 0.040                                   | 12                                   | 119                                                 | <0.010                                      | 0.060                                       | 0.180                                           | <0.20                                  |                                   |
|     |       | PHOS-PHORUS DIS- SOLVED (MG/L AS P)    | PHOS-PHORUS ORTHO, DIS- SOLVED (MG/L AS P) | IRON, DIS- SOLVED (UG/L AS FE)          | MANGA-NESE, DIS- SOLVED (UG/L AS MN) | RADON 222 TOTAL (PCI/L)                             | RN-222 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L) | TRITIUM 2 SIGMA WATER, WHOLE, TOTAL (PCI/L) | CARBON, 2 SIGMA ORGANIC DIS- SOLVED (MG/L AS C) |                                        |                                   |
|     |       | (00666)                                | (00671)                                    | (01046)                                 | (01056)                              | (82303)                                             | (76002)                                     | (07000)                                     | (75985)                                         | (00681)                                |                                   |
| MAY | 07... | 0.310                                  | 0.180                                      | 1200                                    | 37                                   | 97                                                  | 16                                          | 2.0                                         | 1.0                                             | <0.10                                  |                                   |

## QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

SHELBY COUNTY TENNESSEE--Continued

352034089534501 CITY OF MILLINGTON--Continued

| DATE         | 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)             | METO-<br>LACHLOR<br>WATER,<br>DISSOLV<br>(UG/L)<br>(39415)                  | NAPROP-<br>AMIDE<br>WATER<br>FLTRD<br>0.7 U<br>(UG/L)<br>(82684)                | PRON-<br>AMIDE<br>WATER<br>FLTRD<br>0.7 U<br>(UG/L)<br>(82676)                | PROP-<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>(UG/L)<br>(82679)               | ALDI-<br>CARB,<br>WATER,<br>FLTRD<br>0.7 U<br>(UG/L)<br>(49312)             | ALDI-<br>CARB<br>SULFONE<br>WAT, FLT<br>REC<br>(UG/L)<br>(49313)           | ALDICA-<br>RB SUL-<br>FOXIDE,<br>WAT, FLT<br>GF 0.7U<br>(UG/L)<br>(49314)    | BUTYL-<br>ATE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04028)                |
|--------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| MAY<br>07... | <0.002                                                                       | <0.002                                                                     | <0.002                                                                      | <0.003                                                                          | <0.003                                                                        | <0.007                                                                     | <0.004                                                                      | <0.016                                                                      | <0.016                                                                     | <0.021                                                                       | <0.002                                                                       |
| DATE         | CAR-<br>BARYL,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49310)     | CAR-<br>BARYL<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82680)   | CARBO-<br>FURAN,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49309)  | CARBO-<br>FURAN<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82674)      | 3HYDRXY<br>CARBO-<br>FURAN<br>WAT, FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49308) | EPTC<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82668)            | METHIO-<br>CARB,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(38501)  | METH-<br>OMYL,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49296)    | MOL-<br>INATE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82671)   | OXAMYL,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(38866)            | PEB-<br>ULATE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82669)     |
| MAY<br>07... | <0.008                                                                       | <0.003                                                                     | <0.028                                                                      | <0.003                                                                          | <0.014                                                                        | <0.002                                                                     | <0.026                                                                      | <0.017                                                                      | <0.004                                                                     | <0.018                                                                       | <0.004                                                                       |
| DATE         | PRO-<br>PHAM,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49236)      | PRO-<br>POXUR,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(38538)   | 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)       | 2,4-D,<br>DIS-<br>SOLVED<br>REC<br>(UG/L)<br>(39732)                          | DICHLOR<br>PROP,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49302) | 2,4-DB<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(38746)            | MCPA,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(38482)             | MCPB,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(38487)            | SILVEX,<br>DIS-<br>SOLVED<br>REC<br>(UG/L)<br>(39762)                        | 2,4,5-T<br>DIS-<br>SOLVED<br>REC<br>(UG/L)<br>(39742)                        |
| MAY<br>07... | <0.035                                                                       | <0.035                                                                     | <0.002                                                                      | <0.001                                                                          | <0.035                                                                        | <0.032                                                                     | <0.035                                                                      | <0.050                                                                      | <0.035                                                                     | <0.021                                                                       | <0.035                                                                       |
| DATE         | TRI-<br>CLOPYR,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49235)    | BEN-<br>FLUR-<br>ALIN<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82673)  | ETHAL-<br>FLUR-<br>ALIN<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82663) | ORY-<br>ZALIN,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49292)        | PENDI-<br>METH-<br>ALIN<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82683)   | TRI-<br>FLUR-<br>ALIN<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82661)  | ALPHA<br>BHC<br>DIS-<br>SOLVED<br>(UG/L)<br>(34253)                         | CHLORO-<br>NIL,<br>WAT, FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49306)          | DCPA<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82682)            | DACTHAL<br>MONO-<br>ACID,<br>WAT, FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49304) | P,P'<br>DDE<br>DISSOLV<br>(UG/L)<br>(34653)                                  |
| MAY<br>07... | <0.050                                                                       | <0.002                                                                     | <0.004                                                                      | <0.019                                                                          | <0.004                                                                        | <0.002                                                                     | <0.002                                                                      | <0.035                                                                      | <0.002                                                                     | <0.017                                                                       | <0.006                                                                       |
| DATE         | DICHLOR-<br>BENIL,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49303) | DI-<br>ELDRIN<br>DIS-<br>SOLVED<br>(UG/L)<br>(39381)                       | LINDANE<br>DIS-<br>SOLVED<br>(UG/L)<br>(39341)                              | METHYL<br>AZIN-<br>PHOS<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82686)     | CHLOR-<br>PYRIFOS<br>DIS-<br>SOLVED<br>(UG/L)<br>(38933)                      | DI-<br>AZINON,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39572)                      | DISUL-<br>FOTON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82677)  | ETHO-<br>PROP<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82672)    | FONOFOS<br>DISS<br>REC<br>(UG/L)<br>(04095)                                | MALA-<br>THION,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39532)                       | METHYL<br>PARA-<br>THION<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82667) |
| MAY<br>07... | <0.020                                                                       | <0.001                                                                     | <0.004                                                                      | <0.001                                                                          | <0.004                                                                        | <0.002                                                                     | <0.017                                                                      | <0.003                                                                      | <0.003                                                                     | <0.005                                                                       | <0.006                                                                       |
| DATE         | PARA-<br>THION,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39542)                       | PHORATE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82664)         | TER-<br>BUFOS<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82675)    | PER-<br>METHRIN<br>CIS<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82687)      | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632)                 | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040)   | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)              | METRI-<br>BUZIN<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82630)  | PRO-<br>METON,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04037)              | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035)                | BRO-<br>MACIL,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04029)                |
| MAY<br>07... | <0.004                                                                       | <0.002                                                                     | <0.013                                                                      | <0.005                                                                          | <0.001                                                                        | <0.002                                                                     | <0.004                                                                      | <0.004                                                                      | <0.018                                                                     | <0.005                                                                       | <0.035                                                                       |
| DATE         | TER-<br>BACIL<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82665)     | FEN-<br>URON,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49297)    | DIURON,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49300)           | FLUO-<br>METURON<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(38811)      | LINURON<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(38478)             | LIN-<br>URON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82666)    | NEB-<br>URON,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49294)     | TEBU-<br>THIURON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82670) | ACIFL-<br>UORFEN<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49315) | BENTA-<br>ZON,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(38711)     | BRO-<br>MOXYNIL<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49311)    |
| MAY<br>07... | <0.007                                                                       | <0.013                                                                     | <0.020                                                                      | <0.035                                                                          | <0.018                                                                        | <0.002                                                                     | <0.015                                                                      | <0.010                                                                      | <0.035                                                                     | <0.014                                                                       | <0.035                                                                       |
| DATE         | CHLOR-<br>AMBEN,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49307)   | CLOPYR-<br>ALID,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49305) | DICAMBA<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(38442)           | 2,6-DI-<br>ETHYL<br>ANILINE<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82660) | DINOSEB<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49301)             | DNOC<br>WAT, FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49299)                    | ESFEN-<br>VAL-<br>ERATE,<br>WAT, FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49298) | 1-NAPH-<br>THOL,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49295)  | NORFLUR<br>AZON,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49293) | PIC-<br>LORAM,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49291)     | PRO-<br>FARGITE<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82685)  |
| MAY<br>07... | <0.011                                                                       | <0.050                                                                     | <0.035                                                                      | <0.003                                                                          | <0.035                                                                        | <0.035                                                                     | <0.019                                                                      | <0.007                                                                      | <0.024                                                                     | <0.050                                                                       | <0.013                                                                       |



## WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

## SHELBY COUNTY TENNESSEE--Continued

## 352034089534501 CITY OF MILLINGTON--Continued

|     | DATE  | 1,2-DIBROMO<br>WATER<br>TOTAL<br>(UG/L)<br>(77651)                            | CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34311)                                  | 1,1-DI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34496)                    | 1,2-DI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(32103)                      | 1,1,1-<br>TRI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34506)                 | 1,1,2-<br>TRI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34511)               | FREON-<br>113<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77652)                   | ETHANE,<br>1112-<br>TETRA-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(77562)          | ETHANE,<br>1,1,2,2<br>TETRA-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(34516) | ETHANE<br>HEXA-<br>CHLORO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(34396)          | METHYL-<br>BROMIDE<br>TOTAL<br>(UG/L)<br>(34413)                                  |
|-----|-------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| MAY | 07... | <0.100                                                                        | <0.100                                                                           | <0.050                                                                        | <0.050                                                                          | <0.050                                                                            | <0.100                                                                          | <0.050                                                                          | <0.050                                                                                | <0.100                                                                         | <0.050                                                                                  | <0.100                                                                            |
|     | DATE  | METHANE<br>BROMO<br>CHLORO-<br>WAT<br>UNFLTRD<br>REC<br>(UG/L)<br>(77297)     | DI-<br>CHLORO-<br>BROMO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(32101)                | DI-<br>BROMO-<br>METHANE<br>WATER<br>WHOLE<br>RECOVER<br>(UG/L)<br>(30217)    | BROMO-<br>FORM<br>TOTAL<br>(UG/L)<br>(32104)                                    | METHYL-<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(34418)                            | CHLORO-<br>DI-<br>BROMO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(32105)               | METHYL-<br>ENE<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(34423)                   | DI-<br>CHLORO-<br>DI-<br>FLUORO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(34668)             | CHLORO-<br>FORM<br>TOTAL<br>(UG/L)<br>(32106)                                  | TRI-<br>CHLORO-<br>FLUORO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(34488)                     | CARBON-<br>TETRA-<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(32102)                  |
| MAY | 07... | <0.100                                                                        | <0.100                                                                           | <0.100                                                                        | <0.200                                                                          | <0.200                                                                            | <0.100                                                                          | <0.100                                                                          | <0.200                                                                                | <0.050                                                                         | <0.100                                                                                  | <0.050                                                                            |
|     | DATE  | METHYL<br>IODIDE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77424)          | DIBROMO<br>CHLORO-<br>PROPANE<br>WATER<br>WHOLE<br>TOT. REC<br>(UG/L)<br>(82625) | 1,2-DI-<br>CHLORO-<br>PROPANE<br>TOTAL<br>(UG/L)<br>(34541)                   | 1,3-DI-<br>CHLORO-<br>PROPANE<br>WAT. WH<br>TOTAL<br>(UG/L)<br>(77173)          | 2,2-DI-<br>CHLORO-<br>PRO-<br>PANE<br>WAT, WH<br>TOTAL<br>(UG/L)<br>(77170)       | 123-TRI<br>CHLORO-<br>PROPANE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77443)   | HEXA-<br>CHLORO-<br>BUT-<br>ADIENE<br>TOTAL<br>(UG/L)<br>(39702)                | 2BUTENE<br>TRANS-1<br>4-DI-<br>CHLORO-<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(73547)     | BROMO-<br>ETHENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50002)           | VINYL<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(39175)                                    | 1,1-DI-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(34501)                 |
| MAY | 07... | <0.050                                                                        | <0.500                                                                           | <0.050                                                                        | <0.050                                                                          | <0.050                                                                            | <0.200                                                                          | <0.200                                                                          | <5.00                                                                                 | <0.100                                                                         | <0.100                                                                                  | <0.100                                                                            |
|     | DATE  | CIS-1,2<br>DI-<br>CHLORO-<br>ETHENE<br>WATER<br>TOTAL<br>(UG/L)<br>(77093)    | 1,2-<br>TRANSDI<br>CHLORO-<br>ETHENE<br>TOTAL<br>(UG/L)<br>(34546)               | TRI-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(39180)                | TETRA-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(34475)                | PROPENE<br>3-<br>CHLORO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(78109)      | 1,1-DI<br>CHLORO-<br>PRO-<br>PENE,<br>WAT, WH<br>TOTAL<br>(UG/L)<br>(77168)     | CIS<br>1,3-DI-<br>CHLORO-<br>PROPENE<br>TOTAL<br>(UG/L)<br>(34704)              | TRANS-<br>1,3-DI-<br>CHLORO-<br>PROPENE<br>TOTAL<br>(UG/L)<br>(34699)                 | BENZENE<br>N-BUTYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77342)             | BENZENE<br>SEC<br>BUTYL-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77350)                | BENZENE<br>TERT-<br>BUTYL-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77353)        |
| MAY | 07... | <0.050                                                                        | <0.050                                                                           | <0.050                                                                        | <0.050                                                                          | <0.100                                                                            | <0.050                                                                          | <0.100                                                                          | <0.100                                                                                | <0.050                                                                         | <0.050                                                                                  | <0.050                                                                            |
|     | DATE  | ETHYL-<br>BENZENE<br>TOTAL<br>(UG/L)<br>(34371)                               | TOLUENE<br>TOTAL<br>(UG/L)<br>(34010)                                            | O-<br>XYLENE<br>WATER<br>TOTAL<br>(UG/L)<br>(77135)                           | META/<br>PARA-<br>XYLENE<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(85795)        | BENZENE<br>123-TRI<br>METHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77221) | BENZENE<br>124-TRI<br>METHYL<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77222)         | BENZENE<br>135-TRI<br>METHYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77226)    | PREH-<br>NITENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(49999)                   | ISO-<br>DURENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50000)             | ISO-<br>PROPYL-<br>BENZENE<br>WATER<br>WHOLE<br>REC<br>(UG/L)<br>(77223)                | BENZENE<br>N-PROPYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77224)               |
| MAY | 07... | <0.050                                                                        | <0.050                                                                           | <0.050                                                                        | <0.050                                                                          | <0.050                                                                            | <0.050                                                                          | <0.050                                                                          | <0.050                                                                                | <0.050                                                                         | <0.050                                                                                  | <0.050                                                                            |
|     | DATE  | TOLUENE<br>O-ETHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77220)        | P-ISO-<br>PROPYL-<br>TOLUENE<br>WATER<br>WHOLE<br>REC<br>(UG/L)<br>(77356)       | BENZENE<br>TOTAL<br>(UG/L)<br>(34030)                                         | NAPHTH-<br>ALENE<br>TOTAL<br>(UG/L)<br>(34696)                                  | STYRENE<br>TOTAL<br>(UG/L)<br>(77128)                                             | ACETONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(81552)                         | ETHER<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81576)             | ETHER<br>TERT-<br>BUTYL<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50004) | METHYL<br>TERT-<br>BUTYL<br>ETHER<br>WAT UNF<br>REC<br>(UG/L)<br>(78032)       | ETHER<br>TERT-<br>PENTYL<br>METHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50005) | DI-ISO-<br>PROPYL-<br>ETHER,<br>WATER,<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81577) |
| MAY | 07... | <0.050                                                                        | <0.050                                                                           | <0.050                                                                        | <0.200                                                                          | <0.050                                                                            | <5.00                                                                           | <0.100                                                                          | <0.100                                                                                | <0.100                                                                         | <0.100                                                                                  | <0.100                                                                            |
|     | DATE  | FURAN<br>TETRA-<br>HYDRO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81607) | 2-HEXA-<br>NONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77103)                  | METHYL-<br>ISO-<br>BUTYL-<br>KETONE<br>WAT. WH.<br>TOTAL<br>(UG/L)<br>(78133) | METHYL-<br>ETHYL-<br>KETONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(81595)     | BROMO-<br>BENZENE<br>WATER,<br>WHOLE,<br>TOTAL<br>(UG/L)<br>(81555)               | CHLORO-<br>BENZENE<br>TOTAL<br>(UG/L)<br>(34301)                                | BENZENE<br>O-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34536)     | BENZENE<br>1,3-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34566)         | BENZENE<br>1,4-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34571)  | 1,2,3-<br>TRI-<br>CHLORO-<br>BENZENE<br>WAT, WH<br>REC<br>(UG/L)<br>(77613)             | BENZENE<br>1,2,4-<br>TRI-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(34551)       |
| MAY | 07... | <5.00                                                                         | <5.00                                                                            | <5.00                                                                         | <5.00                                                                           | <0.050                                                                            | <0.050                                                                          | <0.050                                                                          | <0.050                                                                                | <0.050                                                                         | <0.200                                                                                  | <0.200                                                                            |
|     | DATE  | O-<br>CHLORO-<br>TOLUENE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77275)      | TOLUENE<br>P-CHLOR<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77277)               | CARBON<br>DI-<br>SULFIDE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77041)      | METHAC-<br>RYLATE<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(73570) | METHYL<br>ACRY-<br>LATE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(49991)       | METH-<br>ACRYLO-<br>NITRITE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81593) | METHAC-<br>RYLATE<br>METHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81597) | ACRO-<br>LEIN<br>TOTAL<br>(UG/L)<br>(34210)                                           | ACRYLO-<br>NITRILE<br>TOTAL<br>(UG/L)<br>(34215)                               | ACETATE<br>VINYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77057)                    |                                                                                   |
| MAY | 07... | <0.050                                                                        | <0.050                                                                           | <0.050                                                                        | <1.00                                                                           | <2.00                                                                             | <2.00                                                                           | <1.00                                                                           | <2.00                                                                                 | <2.00                                                                          | <5.00                                                                                   |                                                                                   |



QUALITY OF GROUND WATER  
WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

WEAKLEY COUNTY TENNESSEE

361709088423501 CITY OF DRESDEN

|           |                                                                            | PUMP                                                                               |                                                                                |                                                                             |                                                                                     |                                                                              |                                                                              |                                                                           |                                                                                        |                                                                                  |                                                                           |
|-----------|----------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| DATE      | TIME                                                                       | GEO-LOGIC UNIT                                                                     | DEPTH OF WELL, TOTAL (FEET)<br>(72008)                                         | OR FLOW PERIOD PRIOR TO SAM-PLING (MIN)<br>(72004)                          | SAMPLE SOURCE<br>(72005)                                                            | SAMPLER TYPE (CODE)<br>(84164)                                               | SAM-PLING CONDI-TION<br>(72006)                                              | SAM-PLING METHOD, CODES<br>(82398)                                        | WELL PURGING CONDI-TION<br>(CODE)<br>(84143)                                           | SPE-CIFIC CON-DUCT-ANCE<br>(US/CM)<br>(00095)                                    |                                                                           |
| MAY 01... | 1400                                                                       | 124MMPs                                                                            | 398.00                                                                         | >60                                                                         | 1                                                                                   | 4040                                                                         | 0.10                                                                         | 4040                                                                      | 160                                                                                    | 33                                                                               |                                                                           |
| DATE      | TEMPER-<br>ATURE<br>(DEG C)<br>(00010)                                     | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300)                                     | 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)             | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L)<br>AS NA<br>(00930)                             | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L)<br>AS K<br>(00935)               | BICAR-<br>BONATE<br>WATER<br>DIS IT<br>FIELD<br>HCO3<br>(00453)              | ALKA-<br>LINITY<br>WAT DIS<br>TOT IT<br>FIELD<br>CACO3<br>(39086)         | SULFATE<br>SOLVED<br>AS SO4<br>(00945)                                                 |                                                                                  |                                                                           |
| MAY 01... | 16.0                                                                       | 6.4                                                                                | 1.7                                                                            | 0.67                                                                        | 3.3                                                                                 | 0.30                                                                         | 20                                                                           | 16                                                                        | 1.1                                                                                    |                                                                                  |                                                                           |
| DATE      | 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)                      | BROMIDE<br>DIS-<br>SOLVED<br>(MG/L)<br>AS BR<br>(71870)                        | SILICA,<br>DIS-<br>SOLVED<br>(MG/L)<br>AS<br>SIO2<br>(00955)                | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>AS<br>(70300) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L)<br>AS N<br>(00613)     | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L)<br>AS N<br>(00631)     | 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>DIS-<br>SOLVED<br>(MG/L)<br>AS N<br>(00623) |                                                                                  |                                                                           |
| MAY 01... | 1.1                                                                        | <0.10                                                                              | 0.020                                                                          | 13                                                                          | 27                                                                                  | <0.010                                                                       | 0.100                                                                        | 0.030                                                                     | <0.20                                                                                  |                                                                                  |                                                                           |
| DATE      | PHOS-<br>PHORUS<br>DIS-<br>SOLVED<br>(MG/L)<br>AS P<br>(00666)             | PHOS-<br>PHORUS<br>ORTHOS-<br>PHATE<br>DIS-<br>SOLVED<br>(MG/L)<br>AS P<br>(00671) | 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)             | H-2 /<br>H-1<br>STABLE<br>ISOTOPE<br>RATIO<br>PER<br>MIL<br>(82082)                 | O-18 /<br>O-16<br>STABLE<br>ISOTOPE<br>RATIO<br>PER<br>MIL<br>(82085)        | RADON<br>222<br>TOTAL<br>(PCI/L)<br>(82303)                                  | RN-222<br>2 SIGMA<br>WHOLE,<br>SOLVED<br>(PCI/L)<br>(76002)               | CARBON,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L)<br>AS C<br>(00681)                      |                                                                                  |                                                                           |
| MAY 01... | <0.010                                                                     | <0.010                                                                             | 8.0                                                                            | <1.0                                                                        | -34.2                                                                               | -5.86                                                                        | 80                                                                           | 16                                                                        | 0.20                                                                                   |                                                                                  |                                                                           |
| DATE      | 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)                     | METO-<br>LACHLOR<br>WATER<br>DISSOLV<br>GF, REC<br>(UG/L)<br>(39415)           | NAPROP-<br>AMIDE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82684) | PRON-<br>AMIDE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82676)           | PROP-<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)     | ALDI-<br>CARB,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49312) | ALDI-<br>CARB<br>SULFONE<br>WAT, FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49313)            | ALDICA-<br>RB SUL-<br>FOXIDE,<br>WAT, FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49314) | BUTYL-<br>ATE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04028)             |
| MAY 01... | <0.002                                                                     | <0.002                                                                             | <0.002                                                                         | <0.003                                                                      | <0.003                                                                              | <0.007                                                                       | <0.004                                                                       | <0.016                                                                    | <0.016                                                                                 | <0.021                                                                           | <0.002                                                                    |
| DATE      | CAR-<br>BARYL,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49310)  | CAR-<br>BARYL<br>WATER,<br>FLTRD<br>GF 0.7 U<br>GF, REC<br>(UG/L)<br>(82680)       | CARBO-<br>FURAN,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49309)    | CARBO-<br>FURAN<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82674)  | 3HYDRXY<br>CARBO-<br>FURAN<br>WAT, FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49308)       | EPTC<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82668)              | METHIO-<br>CARB,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(38501)   | METH-<br>OMYL,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49296) | MOL-<br>INATE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82671)               | OXAMYL,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(38866)               | PEB-<br>ULATE<br>WATER<br>FILTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82669) |
| MAY 01... | <0.008                                                                     | <0.003                                                                             | <0.028                                                                         | <0.003                                                                      | <0.014                                                                              | <0.002                                                                       | <0.026                                                                       | <0.017                                                                    | <0.004                                                                                 | <0.018                                                                           | <0.004                                                                    |
| DATE      | PRO-<br>PHAM,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49236)   | PRO-<br>POXUR,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(38538)          | 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)   | 2,4-D,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39732)                                       | DICHLOR<br>PROP,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49302)  | 2,4-DB<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(38746)            | MCPA,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(38482)          | MCPB,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(38487)                       | SILVEX,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39762)                                   | 2,4,5-T<br>DIS-<br>SOLVED<br>(UG/L)<br>(39742)                            |
| MAY 01... | <0.035                                                                     | <0.035                                                                             | <0.002                                                                         | <0.001                                                                      | <0.035                                                                              | <0.032                                                                       | <0.035                                                                       | <0.050                                                                    | <0.035                                                                                 | <0.021                                                                           | <0.035                                                                    |
| DATE      | TRI-<br>CLOPYR,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49235) | BEN-<br>FLUR-<br>ALIN<br>WAT FLD<br>GF 0.7 U<br>GF, REC<br>(UG/L)<br>(82673)       | ETHAL-<br>FLUR-<br>ALIN<br>WAT FLT<br>GF 0.7 U<br>GF, REC<br>(UG/L)<br>(82663) | ORY-<br>ZALIN,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49292)   | PENDI-<br>METH-<br>ALIN<br>WAT FLT<br>GF 0.7 U<br>GF, REC<br>(UG/L)<br>(82683)      | TRI-<br>FLUR-<br>ALIN<br>WAT FLT<br>GF 0.7 U<br>GF, REC<br>(UG/L)<br>(82661) | CHLORO-<br>THALO-<br>NIL,<br>WAT, FLT<br>DIS-<br>SOLVED<br>(UG/L)<br>(34253) | DCPA<br>WATER<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49306)             | DACTHAL<br>MONO-<br>ACID,<br>WAT, FLT<br>GF 0.7U<br>GF, REC<br>(UG/L)<br>(82682)       | P,P'<br>DDE<br>DISSOLV<br>(UG/L)<br>(49304)                                      |                                                                           |
| MAY 01... | <0.050                                                                     | <0.002                                                                             | <0.004                                                                         | <0.019                                                                      | <0.004                                                                              | <0.002                                                                       | <0.002                                                                       | <0.035                                                                    | <0.002                                                                                 | <0.017                                                                           | <0.006                                                                    |

## QUALITY OF GROUND WATER

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WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

WEAKLEY COUNTY TENNESSEE--Continued

361709088423501 CITY OF DRESDEN--Continued

| DATE         | DICHLOR-<br>BENIL,<br>WATER,<br>FLTRD,<br>GF 0.7U<br>REC<br>(UG/L)<br>(49303) | DI-<br>ELDRIN<br>DIS-<br>SOLVED<br>(UG/L)<br>(39381)                             | LINDANE<br>SOLVED<br>(UG/L)<br>(39341)                                   | METHYL<br>AZIN-<br>PHOS<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82686)     | CHLOR-<br>PYRIFOS<br>DIS-<br>SOLVED<br>(UG/L)<br>(38933)                    | DI-<br>AZINON,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39572)                          | DISUL-<br>FOTON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82677) | ETHO-<br>PROP<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82672)         | FONOFOS<br>WATER<br>DISS<br>REC<br>(UG/L)<br>(04095)                           | MALA-<br>THION,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39532)                         | METHYL<br>PARA-<br>THION<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82667)  |
|--------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| MAY<br>01... | <0.020                                                                        | <0.001                                                                           | <0.004                                                                   | <0.001                                                                          | <0.004                                                                      | <0.002                                                                         | <0.017                                                                     | <0.003                                                                           | <0.003                                                                         | <0.005                                                                         | <0.006                                                                        |
| DATE         | PARA-<br>THION,<br>DIS-<br>SOLVED<br>(UG/L)<br>(39542)                        | PHORATE<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82664)               | TER-<br>BUFOS<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82675) | PER-<br>METHRIN<br>CIS<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82687)      | ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(39632)               | DEETHYL<br>ATRA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04040)       | CYANA-<br>ZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04041)             | METRI-<br>BUZIN<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82630)       | PRO-<br>METON,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04037)                  | SI-<br>MAZINE,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04035)                  | BRO-<br>MACIL,<br>WATER,<br>DISS,<br>REC<br>(UG/L)<br>(04029)                 |
| MAY<br>01... | <0.004                                                                        | <0.002                                                                           | <0.013                                                                   | <0.005                                                                          | <0.001                                                                      | <0.002                                                                         | <0.004                                                                     | <0.004                                                                           | <0.018                                                                         | <0.005                                                                         | <0.035                                                                        |
| DATE         | TER-<br>BACIL<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82665)      | FEN-<br>URON,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49297)        | DIURON,<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49300)       | FLUO-<br>METURON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(38811)     | LINURON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(38478)          | LIN-<br>URON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82666)        | NEB-<br>URON,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49294)  | TEBU-<br>THIURON<br>WATER<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82670)      | ACIFL-<br>UORFEN<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49315)   | BENTA-<br>ZON,<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(38711)     | BRO-<br>MOXYNIL<br>WATER,<br>FLTRD<br>0.7 U<br>GF, REC<br>(UG/L)<br>(49311)   |
| MAY<br>01... | <0.007                                                                        | <0.013                                                                           | <0.020                                                                   | <0.035                                                                          | <0.018                                                                      | <0.002                                                                         | <0.015                                                                     | <0.010                                                                           | <0.035                                                                         | <0.014                                                                         | <0.035                                                                        |
| DATE         | CHLOR-<br>AMBEN,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49307)    | CLOPYR-<br>ALID,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49305)       | DICAMBA<br>WATER<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(38442)         | 2,6-DI-<br>ETHYL<br>ANILINE<br>WAT FLT<br>0.7 U<br>GF, REC<br>(UG/L)<br>(82660) | DINOSEB<br>WATER<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49301)            | DNOC<br>WAT,FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49299)                         | ESFEN-<br>VAL-<br>ERATE,<br>WAT,FLT<br>GF 0.7U<br>REC<br>(UG/L)<br>(49298) | 1-NAPH-<br>THOL,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49295)       | NORFLUR<br>AZON,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49293)     | PIC-<br>LORAM,<br>WATER,<br>FLTRD<br>GF 0.7U<br>REC<br>(UG/L)<br>(49291)       | PRO-<br>PARGITE<br>WATER<br>FLTRD<br>GF 0.7 U<br>GF, REC<br>(UG/L)<br>(82685) |
| MAY<br>01... | <0.011                                                                        | <0.050                                                                           | <0.035                                                                   | <0.003                                                                          | <0.035                                                                      | <0.035                                                                         | <0.019                                                                     | <0.007                                                                           | <0.024                                                                         | <0.050                                                                         | <0.013                                                                        |
| DATE         | 1,2-<br>DIBROMO<br>ETHANE<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77651)              | CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34311)                                  | 1,1-DI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34496)               | 1,2-DI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(32103)                      | 1,1,1-<br>TRI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34506)           | 1,1,2-<br>TRI-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)<br>(34511)              | FREON-<br>113<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77652)              | ETHANE,<br>1112-<br>TETRA-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(77562)     | ETHANE,<br>1,1,2,2<br>TETRA-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(34516) | ETHANE<br>HEXA-<br>CHLORO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(34396) | METHYL-<br>BROMIDE<br>TOTAL<br>(UG/L)<br>(34413)                              |
| MAY<br>01... | <0.100                                                                        | <0.100                                                                           | <0.050                                                                   | <0.050                                                                          | <0.050                                                                      | <0.100                                                                         | <0.050                                                                     | <0.050                                                                           | <0.100                                                                         | <0.050                                                                         | <0.100                                                                        |
| DATE         | METHANE<br>BROMO<br>CHLORO-<br>WAT<br>UNFLTRD<br>REC<br>(UG/L)<br>(77297)     | DI-<br>CHLORO-<br>BROMO-<br>WATER<br>METHANE<br>TOTAL<br>(UG/L)<br>(32101)       | DI-<br>BROMO-<br>METHANE<br>WATER<br>RECOVER<br>(UG/L)<br>(30217)        | BROMO-<br>FORM<br>TOTAL<br>(UG/L)<br>(32104)                                    | METHYL-<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(34418)                      | CHLORO-<br>DI-<br>BROMO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(32105)              | METHYL-<br>ENE<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(34423)              | DI-<br>CHLORO-<br>FLUORO-<br>METHANE<br>TOTAL<br>(UG/L)<br>(34668)               | TRI-<br>CHLORO-<br>FLUORO-<br>FORM<br>METHANE<br>TOTAL<br>(UG/L)<br>(32106)    | CARBON-<br>TETRA-<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(34488)               | METHYL-<br>BROMIDE<br>TOTAL<br>(UG/L)<br>(32102)                              |
| MAY<br>01... | <0.100                                                                        | <0.100                                                                           | <0.100                                                                   | <0.200                                                                          | <0.100                                                                      | <0.100                                                                         | <0.100                                                                     | <0.200                                                                           | <0.100                                                                         | <0.100                                                                         | <0.050                                                                        |
| DATE         | METHYL<br>IODIDE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77424)          | DIBROMO<br>CHLORO-<br>PROPANE<br>WATER<br>WHOLE<br>TOT. REC<br>(UG/L)<br>(82625) | 1,2-DI-<br>CHLORO-<br>PROPANE<br>WAT. WH<br>TOTAL<br>(UG/L)<br>(34541)   | 1,3-DI-<br>CHLORO-<br>PROPANE<br>WAT. WH<br>TOTAL<br>(UG/L)<br>(77173)          | 2,2-DI-<br>CHLORO-<br>PRO-<br>PANE<br>WAT, WH<br>TOTAL<br>(UG/L)<br>(77170) | 123-TRI-<br>CHLORO-<br>PROPANE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77443) | HEXA-<br>CHLORO-<br>BUT-<br>ADIENE<br>TOTAL<br>(UG/L)<br>(39702)           | 2BUTENE<br>TRANS-1<br>4-DI-<br>CHLORO<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(73547) | BROMO-<br>ETHENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50002)           | VINYL<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L)<br>(39175)                           | 1,1-DI-<br>CHLORO-<br>ETHYL-<br>ENE<br>TOTAL<br>(UG/L)<br>(34501)             |
| MAY<br>01... | <0.050                                                                        | <0.500                                                                           | <0.050                                                                   | <0.050                                                                          | <0.050                                                                      | <0.200                                                                         | <0.200                                                                     | <5.00                                                                            | <0.100                                                                         | <0.100                                                                         | <0.100                                                                        |
| DATE         | CIS-1,2<br>-DI-<br>CHLORO-<br>ETHENE<br>WATER<br>TOTAL<br>(UG/L)<br>(77093)   | 1,2-<br>TRANS-<br>ETHYLENE<br>TOTAL<br>(UG/L)<br>(34546)                         | TRI-<br>CHLORO-<br>ETHYLENE<br>TOTAL<br>(UG/L)<br>(39180)                | TETRA-<br>CHLORO-<br>ETHYLENE<br>TOTAL<br>(UG/L)<br>(34475)                     | PROPENE<br>3-<br>CHLORO-<br>WATER<br>UNFLTRD<br>TOTAL<br>(UG/L)<br>(78109)  | 1,1-DI-<br>CHLORO-<br>PRO-<br>PENE,<br>WAT, WH<br>TOTAL<br>(UG/L)<br>(77168)   | CIS<br>1,3-DI-<br>CHLORO-<br>PROPENE<br>TOTAL<br>(UG/L)<br>(34704)         | TRANS-<br>1,3-DI-<br>CHLORO-<br>PROPENE<br>TOTAL<br>(UG/L)<br>(34699)            | BENZENE<br>N-BUTYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77342)             | BENZENE<br>SEC<br>BUTYL-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77350)       | BENZENE<br>TERT-<br>BUTYL-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77353)    |
| MAY<br>01... | <0.050                                                                        | <0.050                                                                           | <0.050                                                                   | <0.050                                                                          | <0.100                                                                      | <0.050                                                                         | <0.100                                                                     | <0.100                                                                           | <0.050                                                                         | <0.050                                                                         | <0.050                                                                        |

## QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

WEAKLEY COUNTY TENNESSEE--Continued

361709088423501 CITY OF DRESDEN--Continued

|              | ETHYL-<br>BENZENE<br>TOTAL<br>(UG/L)<br>(34371)                               | TOLUENE<br>TOTAL<br>(UG/L)<br>(34010)                                      | O-<br>XYLENE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77135)                  | META/<br>PARA-<br>XYLENE<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(85795)        | BENZENE<br>123-TRI<br>METHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77221) | BENZENE<br>124-TRI<br>METHYL<br>UNFILTR<br>RECOVER<br>(UG/L)<br>(77222)         | BENZENE<br>135-TRI<br>METHYL<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77226)    | PREH-<br>NITENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(49999)                   | ISO-<br>DURENE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50000)            | ISO-<br>PROPYL-<br>BENZENE<br>WATER<br>WHOLE<br>REC<br>(UG/L)<br>(77223)                | BENZENE<br>N-PROPY<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77224)                |
|--------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| MAY<br>01... | <0.050                                                                        | <0.050                                                                     | <0.050                                                                        | <0.050                                                                          | <0.050                                                                            | E0.020                                                                          | <0.050                                                                          | <0.050                                                                                | <0.050                                                                        | <0.050                                                                                  | <0.050                                                                            |
| DATE         | TOLUENE<br>O-ETHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77220)        | P-ISO-<br>PROPYL-<br>TOLUENE<br>WATER<br>WHOLE<br>REC<br>(UG/L)<br>(77356) | BENZENE<br>TOTAL<br>(UG/L)<br>(34030)                                         | NAPHTH-<br>ALENE<br>TOTAL<br>(UG/L)<br>(34696)                                  | STYRENE<br>TOTAL<br>(UG/L)<br>(77128)                                             | ACETONE<br>WATER<br>WHOLE<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81552)            | ETHER<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81576)             | ETHER<br>TERT-<br>BUTYL<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50004) | METHYL<br>TERT-<br>BUTYL<br>ETHER<br>WAT UNF<br>REC<br>(UG/L)<br>(78032)      | ETHER<br>TERT-<br>PENTYL<br>METHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(50005) | DI-ISO-<br>PROPYL-<br>ETHER,<br>WATER,<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81577) |
| MAY<br>01... | <0.050                                                                        | <0.050                                                                     | <0.050                                                                        | <0.200                                                                          | <0.050                                                                            | <5.00                                                                           | <0.100                                                                          | <0.100                                                                                | <0.100                                                                        | <0.100                                                                                  | <0.100                                                                            |
| DATE         | FURAN<br>TETRA-<br>HYDRO-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81607) | 2-HEXA-<br>NONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77103)            | METHYL-<br>ISO-<br>BUTYL-<br>KETONE<br>WAT. WH.<br>TOTAL<br>(UG/L)<br>(78133) | METHYL-<br>ETHYL-<br>KETONE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(81595)     | BROMO-<br>BENZENE<br>WATER,<br>WHOLE,<br>TOTAL<br>(UG/L)<br>(81555)               | CHLORO-<br>BENZENE<br>TOTAL<br>(UG/L)<br>(34301)                                | BENZENE<br>O-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34536)     | BENZENE<br>1,3-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34566)         | BENZENE<br>1,4-DI-<br>CHLORO-<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(34571) | 1,2,3-<br>TRI-<br>CHLORO-<br>BENZENE<br>WAT, WH<br>REC<br>(UG/L)<br>(77613)             | BENZENE<br>1,2,4-<br>TRI-<br>CHLORO-<br>WAT UNF<br>REC<br>(UG/L)<br>(34551)       |
| MAY<br>01... | <5.00                                                                         | <5.00                                                                      | <5.00                                                                         | <5.00                                                                           | <0.050                                                                            | <0.050                                                                          | <0.050                                                                          | <0.050                                                                                | <0.050                                                                        | <0.200                                                                                  | <0.200                                                                            |
| DATE         | O-<br>CHLORO-<br>TOLUENE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77275)      | TOLUENE<br>P-CHLOR<br>WATER<br>UNFLTRD<br>REC<br>(UG/L)<br>(77277)         | CARBON<br>DI.<br>SULFIDE<br>WATER<br>WHOLE<br>TOTAL<br>(UG/L)<br>(77041)      | METHAC-<br>RYLATE<br>ETHYL-<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(73570) | METHYL<br>ACRY-<br>LATE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(49991)       | METH-<br>ACRYLO-<br>NITRITE<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81593) | METHAC-<br>RYLATE<br>METHYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(81597) | ACRO-<br>LEIN<br>TOTAL<br>(UG/L)<br>(34210)                                           | ACRYLO-<br>NITRILE<br>TOTAL<br>(UG/L)<br>(34215)                              | ACETATE<br>VINYL<br>WATER<br>UNFLTRD<br>RECOVER<br>(UG/L)<br>(77057)                    |                                                                                   |
| MAY<br>01... | <0.050                                                                        | <0.050                                                                     | <0.050                                                                        | <1.00                                                                           | <2.00                                                                             | <2.00                                                                           | <1.00                                                                           | <2.00                                                                                 | <2.00                                                                         | <2.00                                                                                   | <5.00                                                                             |

|                                                |         |                                                 |                 |
|------------------------------------------------|---------|-------------------------------------------------|-----------------|
| Aberdeen, Buttahatchee River near.....         | 50-51   | Burnside, Pearl River at.....                   | 91-92           |
| Tombigbee River at Aberdeen Lock and Dam ....  | 49      | Burnsville, Little Yellow Creek East near.....  | 119             |
| Abiaca Creek at Cruger.....                    | 155-157 | Buttahatchee River near Aberdeen.....           | 50-51           |
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| Access to WATSTORE Data.....                   | 13-14   | Calendar for water year 1996.....               | 2nd cover       |
| Accuracy of the Records.....                   | 8       | Calhoun City, Yalobusha River at.....           | 141             |
| Acre-foot, definition of.....                  | 15      | Cany Creek at Jackson.....                      | 201             |
| Adenosine triphosphate, definition of.....     | 15      | Carthage, Pearl River near.....                 | 95-96           |
| Agricola, Escatawpa River near.....            | 88      | Cassidy Bayou at Webb.....                      | 238-240         |
| Algae, definition of.....                      | 15      | Catalpa Creek at Mayhew.....                    | 203             |
| Algal growth potential, definition of.....     | 15      | Cells/volume, definition of.....                | 16              |
| Amite River near Darlington, LA.....           | 193-194 | Chemical oxygen demand, definition of.....      | 16              |
| Amory, Tombigbee River near.....               | 196     | Chickasawhay River at Enterprise.....           | 74-75           |
| Aquifer, definition of.....                    | 15      | at Leakesville.....                             | 79              |
| Aquifer names of Geologic Unit Codes.....      | 267     | at Shubuta.....                                 | 76              |
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| Artesian, definition of.....                   | 15      | Chiwapa Creek at Shannon.....                   | 202             |
| Arundel, Okatibbee Creek at.....               | 72-73   | Chlorophyll, definition of.....                 | 16              |
|                                                |         | Chuquatonchee Creek near Egypt.....             | 202             |
| Bacteria, definition of.....                   | 15      | near Okalona.....                               | 202             |
| Fecal coliform bacteria, definition of.....    | 15      | near West Point.....                            | 203             |
| Fecal streptococcal bacteria, definition of..  | 15      | Chunky, Chunky River near.....                  | 70              |
| Total coliform bacteria, definition of.....    | 15      | Chunky River near Chunky.....                   | 70              |
| Base flow, definition of.....                  | 15      | Clarks Creek near Pattison.....                 | 207             |
| Batesville, Hotopha Creek near.....            | 122-124 | Classification of Records.....                  | 9               |
| Batupan Bogue at Grenada.....                  | 148-150 | Clear Creek near Bovina.....                    | 207             |
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| stations in.....                               | 207     | Coldwater River at Marks.....                   | 238             |
| hydrologic-data station records in.....        | 189     | Coles Creek Basin, crest-stage partial-         |                 |
| Bayou Pierre near Willows.....                 | 189     | record stations in.....                         | 208             |
| Bear Creek at Swiftown.....                    | 241     | Coles Creek near Fayette.....                   | 208             |
| near Morgan City.....                          | 240     | Collins, Leaf River near.....                   | 58              |
| Bed material, definition of.....               | 15      | Color unit, definition of.....                  | 16              |
| Big Black River basin, crest-stage partial-    |         | Columbia, Pearl River near.....                 | 115             |
| record stations in.....                        | 207     | Columbus, Luxapallila Creek near.....           | 54-55           |
| hydrologic-data station records in.....        | 187-188 | Tombigbee River at.....                         | 53              |
| Big Black River at West.....                   | 187     | Tombigbee River at Columbus Lock and Dam,       |                 |
| near Bovina.....                               | 188     | near.....                                       | 52              |
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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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