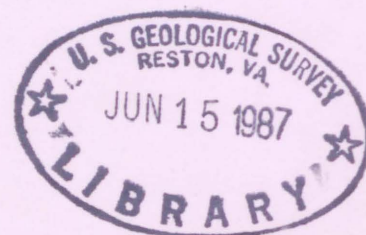


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# Water Resources Data Mississippi Water Year 1985



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT MS-85-1  
Prepared in cooperation with the Mississippi Department of  
Natural Resources and with other State, county, municipal  
and Federal agencies



# CALENDAR FOR WATER YEAR 1985

1984

## OCTOBER

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    | 1  | 2  | 3  | 4  | 5  | 6  |
| 7  | 8  | 9  | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 |    |    |    |

## NOVEMBER

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    |    |    | 1  | 2  | 3  |
| 4  | 5  | 6  | 7  | 8  | 9  | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 |    |

## DECEMBER

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    |    |    |    |    | 1  |
| 2  | 3  | 4  | 5  | 6  | 7  | 8  |
| 9  | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 |    |    |    |    |    |

1985

## JANUARY

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    | 1  | 2  | 3  | 4  | 5  |
| 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 |    |    |

## FEBRUARY

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    |    |    |    | 1  | 2  |
| 3  | 4  | 5  | 6  | 7  | 8  | 9  |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 |    |    |

## MARCH

| S  | M  | T  | W  | T  | F  | S   |
|----|----|----|----|----|----|-----|
|    |    |    |    |    |    | 1 2 |
| 3  | 4  | 5  | 6  | 7  | 8  | 9   |
| 10 | 11 | 12 | 13 | 14 | 15 | 16  |
| 17 | 18 | 19 | 20 | 21 | 22 | 23  |
| 24 | 25 | 26 | 27 | 28 | 29 | 30  |
| 31 |    |    |    |    |    |     |

## APRIL

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    | 1  | 2  | 3  | 4  | 5  | 6  |
| 7  | 8  | 9  | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 |    |    |    |    |

## MAY

| S  | M  | T  | W  | T  | F  | S   |
|----|----|----|----|----|----|-----|
|    |    |    |    | 1  | 2  | 3 4 |
| 5  | 6  | 7  | 8  | 9  | 10 | 11  |
| 12 | 13 | 14 | 15 | 16 | 17 | 18  |
| 19 | 20 | 21 | 22 | 23 | 24 | 25  |
| 26 | 27 | 28 | 29 | 30 | 31 |     |

## JUNE

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    |    |    |    |    | 1  |
| 2  | 3  | 4  | 5  | 6  | 7  | 8  |
| 9  | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 |    |    |    |    |    |    |

## JULY

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    | 1  | 2  | 3  | 4  | 5  | 6  |
| 7  | 8  | 9  | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 |    |    |    |

## AUGUST

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    |    |    | 1  | 2  | 3  |
| 4  | 5  | 6  | 7  | 8  | 9  | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

## SEPTEMBER

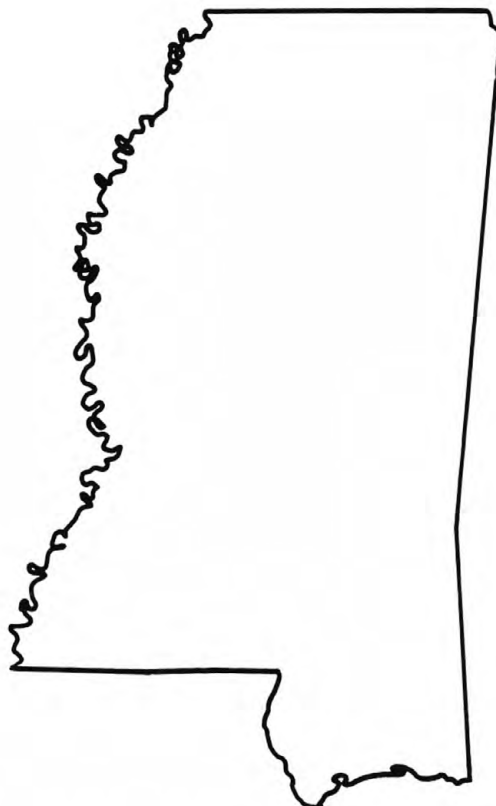
| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  |
| 8  | 9  | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 |    |    |    |    |    |





# Water Resources Data Mississippi Water Year 1985

by E.J. Tharpe, M.L. Plunkett, F. Morris III, and W.T. Oakley



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT MS-85-1  
Prepared in cooperation with the Mississippi Department of  
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and Federal agencies



UNITED STATES DEPARTMENT OF THE INTERIOR  
DONALD PAUL HODEL, Secretary  
GEOLOGICAL SURVEY  
Dallas L. Peck, Director

For information on  
the water program in Mississippi  
write to:

District Chief, Water Resources Division  
U.S. Geological Survey  
100 W. Capitol Street, Suite 710  
Jackson, Mississippi 39269

1987

## PREFACE

This volume of the annual hydrologic data report of Mississippi is one of a series of annual reports that document 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 Andrew G. Lamonds, Acting District Chief, Mississippi.



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                            |                                                                                                                      |                                                                 |
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| <b>16. Abstract (Limit: 200 words)</b><br>Water resources data for the 1985 water year for Mississippi consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of ground-water wells. This report contains records of water discharge at 71 gaging stations; stage records for 18 of these gaging stations; stage only at 5 gaging stations; water quality for 13 stations, 2 precipitation quality stations, and 263 wells; and water levels for 629 observation wells. Also included are peak-discharge data for 58 crest-stage partial-record stations and water quality data at 106 partial-record or miscellaneous sites. Locations of these sites are shown on Figures 3-5. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Mississippi. |                                            |                                                                                                                      |                                                                 |
| <b>17. Document Analysis a. Descriptors</b><br>*Mississippi, *Hydrologic data, *Surface water, *Ground water, *Water quality, Flow rate, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water temperatures, Sampling sites, Water analyses.<br><br><b>b. Identifiers/Open-Ended Terms</b><br><br><br><b>c. COSATI Field/Group</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                            |                                                                                                                      |                                                                 |
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[Letter after station name designates type of data: (d) discharge, (g) gage height, (c) chemical, (m) microbiological, (t) water temperature, (s) sediment, (r) radiochemical, (p) pesticide]

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| De Sota.....   | 250  | Lincoln.....    | 276  | Tunica.....     | 290  |
| Forrest.....   | 250  | Lowndes.....    | 276  | Union.....      | 290  |
| Franklin.....  | 251  | Madison.....    | 279  | Warren.....     | 291  |
| Greene.....    | 252  | Marshall.....   | 280  | Washington..... | 291  |
| Grenada.....   | 252  | Monroe.....     | 280  | Wayne.....      | 294  |
| Hancock.....   | 253  | Montgomery..... | 281  | Webster.....    | 294  |
| Harrison.....  | 256  | Newton.....     | 282  | Wilkerson.....  | 294  |
| Hinds.....     | 258  | Noxubee.....    | 282  | Yazoo.....      | 295  |

GROUND-WATER RECORDS, BY COUNTY, IN THE  
TENNESSEE-TOMBIGBEE STUDY AREA  
GROUND-WATER LEVELS

|               |     |              |     |                 |     |
|---------------|-----|--------------|-----|-----------------|-----|
| Alcorn.....   | 299 | Lowndes..... | 320 | Prentiss.....   | 352 |
| Clay.....     | 304 | Monroe.....  | 328 | Tishomingo..... | 362 |
| Itawamba..... | 305 |              |     |                 |     |

PRECIPITATION-QUALITY STATIONS, ANALYSES OF SAMPLES COLLECTED

|                  |     |
|------------------|-----|
| HANCOCK COUNTY   |     |
| at NSTL.....     | 447 |
| PERRY COUNTY     |     |
| near Janice..... | 449 |



## WATER RESOURCES DATA - MISSISSIPPI, 1985

### 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 on both surface and ground water in the State. Specifically, it contains: (1) Discharge records for 71 streamflow-gaging stations, stage records for 18 of these gaging stations, stage only at 5 gaging stations, for 106 partial-record or miscellaneous streamflow stations, and for 58 crest-stage, partial-record streamflow stations; (2) water-quality records for 13 streamflow-gaging stations, for 8 ungaged streamsites, and for 263 wells; and (3) water-level records for 629 observation wells. 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-85-1." 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.

Additional information, including current prices, for ordering specific reports may be obtained from the District Chief at the address given on back of title page or by telephone (601) 965-4600.

### 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, and for water-quality records since 1964. Organizations that assisted in the collection of data through cooperation with the Survey are:

Mississippi Department of Natural Resources, Charlie L. Blalock, Executive Director.  
Bureau of Land and Water Resources, Charles T. Branch, Director.  
Bureau of Pollution Control, Charles H. Chisolm, Director.  
Bureau of Geology, Alvin R. Bicker, Director.  
Mississippi State Highway Department, John R. Tabb, Director.  
Pat Harrison Waterway District, Albert L. Gerrard, Jr., Executive Director.  
Pearl River Valley Water Supply District, Joe D. Brown, President.  
Harrison County Board of Supervisors, Ernest C. Melvin, President.  
Harrison County Development Commission, Tommy Munro, President.  
Jackson County Board of Supervisors, J.C. May, President.  
Jackson County Port Authority, Paul Pella, Port Director.  
City of Jackson, Dale Danks, Jr., Mayor.  
City of Laurel, Henry Bucklew, Mayor.  
Pearl River Basin Development District, Mike Davis, Executive Vice President

Assistance with funds or services was given by the U. S. Army Corps of Engineers, in collecting records for 44 streamflow-gaging stations and 5 crest-stage gages published in this report.

The following organizations aided in collecting records: National Weather Service, NOAA, U.S. Department of Commerce; the Soil Conservation Service, U.S. Department of Agriculture; and the Environmental Protection Agency.

Organizations that provided data are acknowledged in station descriptions.



## SUMMARY OF HYDROLOGIC CONDITIONS

Streamflow

Annual mean streamflow was normal to slightly below normal in Mississippi and during the 1985 water year. Comparison of monthly and annual (discharge) with the median of the monthly and annual means for the reference period of 1951-80 are shown for three representative gaging stations on major streams in figure 2. The gaging stations are: Tombigbee River at Columbus Lock and Dam near Columbus, which drains northeastern Mississippi, Big Black River near Bovina which drains central Mississippi, and Pascagoula River at Merrill, which drains southeastern Mississippi. The monthly mean discharges varied considerably from above normal in October, November and February, to below normal in January. During the remainder of the year at least one of the three representative stations was below normal each month from March to June and at least one was above normal in May, August, and September leaving only December and July in which monthly mean discharge at all three stations were within the normal range. In spite of these unusual fluctuations no extreme floods or droughts occurred at any gaging station during the 1985 water year.

Runoff of the Tombigbee River at Columbus Lock and Dam near Columbus was 16.68 inches for the water year, which is 88% of the median annual runoff of 18.89 inches for the reference period 1951-1980. Above normal discharge was recorded in October, November, February, May, August, and September, when the monthly mean discharges ranged from 148 to 583 percent of the respective median of the monthly mean discharges for the reference period. Below normal discharge was recorded in January, March, and April, when the monthly mean discharges were 47, 30, and 44 percent of the respective median of the monthly mean discharges for the reference period. All other monthly mean discharges were within the normal range.

Runoff of the Pascagoula River at Merrill was 16.64 inches for the water year, which is 86 percent of the median annual runoff of 19.37 inches for the reference period 1951-1980. Above normal discharge was recorded in October, November, and August, when the monthly mean discharges ranged from 129 to 666 percent of the respective median of the monthly mean discharges for the reference period. Below normal discharge was recorded in January, April, May, and June, when the monthly mean discharges were 64, 45, 46 and 54 percent of the respective median of the monthly mean discharges for the reference period. All other monthly mean discharges were within the normal range.

Runoff of the Big Black River near Bovina was 12.76 inches for the water year, which is 80 percent of the median annual runoff of 16.04 inches for the reference period 1951-1980. Above normal discharge was recorded in October, November, and February, when the monthly mean discharges were 1155, 808, and 171 percent of the respective median of the monthly mean discharges for the reference period. Below normal discharge was recorded in January, when the monthly mean discharge was 38 percent of the median of the monthly mean discharge for the reference period. All other monthly mean discharges were within the normal range.

Ground-Water Levels

Ground-water levels in artesian aquifers statewide continue long-term declining trends following seasonal water-level recoveries during the early part of the year.

Generally, in wells screened in the Miocene aquifers in southern Mississippi, water levels declined about 1 foot. In wells screened in the Graham Ferry Formation along the gulf coast, water levels declined less than 2 feet. In the shallow Citronelle aquifer in southern Mississippi, water levels were slightly higher at all reporting stations.

In central Mississippi, water levels in the Cockfield Formation, Sparta Sand, and Meridian-upper Wilcox aquifer reflected declines of 0.5 to 2 feet in most areas, establishing record low levels at a number of wells screened in the Sparta sand in the Jackson metro area. Water levels in wells used primarily for domestic purposes screened in the Vicksburg Group and Forest Hill Sand declined less than 1 foot.

In northeastern Mississippi, water levels in the Eutaw-McShan aquifer and Tuscaloosa aquifer system generally declined less than 2 feet. In the heavily pumped Tupelo area in Lee County, water levels declined in excess of 2 feet, establishing record low levels at a number of wells.

Water levels in the Sparta aquifer system, Winona-Tallahatta Formation, and lower Wilcox aquifers in northwestern Mississippi showed declines of about 1 foot but exceeded that in some wells affected by pumping.

Water levels in the Mississippi River valley alluvial aquifer in northwestern Mississippi declined about 1 foot throughout much of the northern part of the area commonly known as the Delta. Where irrigation and fish farming place large demands on ground water from the shallow alluvial aquifer in the northern part of the Delta, declines in excess of 1 foot were recorded and record low-water levels were measured at some sites. Normal seasonal variations in water levels were recorded in the southern part of the Delta.

Streamflow Quality

Mississippi streams provide an abundant supply of water that is suitable for many purposes. For the most part, the surface waters are not extensively polluted with manmade wastes. Local stream pollution does occur in some areas of agricultural chemical use, near large urban areas, and along the industrialized gulf coast; however, these areas are not extensive.

With the exception of the Mississippi River, where in the 1985 water year, measured dissolved-solids concentrations ranged from 198 to 249 mg/L, dissolved-solids concentrations of most streams in Mississippi generally were less than 100 mg/L. Ranges of measured dissolved-solids concentrations in selected streams are given in the following table:

Dissolved-solids concentrations, in mg/L

|                                | Minimum | Maximum |
|--------------------------------|---------|---------|
| Pascagoula River near Benndale | 44      | 104     |
| Wolf River near Landon         | 20      | 36      |
| Yazoo River at Redwood         | 62      | 121     |
| Big Black River near Bovina    | 54      | 137     |
| Homochitto River at Rosetta    | 57      | 60      |

In general, the dissolved-solids concentration of water in the Yazoo River increased downstream from Shell Bluff to Redwood. The dissolved-solids concentration, as reflected by the specific conductance measurements along the main stem of Tombigbee River, generally increased downstream from Fulton to Columbus. The measured specific conductance of the water in Tombigbee River ranged from 93 to 138 micromhos/cm at Fulton and from 67 to 150 micromhos/cm at Columbus.

The suspended-sediment concentrations measured in streams in Mississippi ranged from less than 50 mg/L during periods of low flow to more than 1,000 mg/L during high flow. Concentrations of suspended sediment were generally higher in the western part of the state, particularly in the Yazoo River basin in the Mississippi "Delta", than in the more heavily forested eastern part of the State. Lower maximum suspended-sediment concentrations were observed in the southeastern part of the State. The following table shows ranges of measured suspended-sediment concentrations in selected streams.

Suspended-sediment concentrations, in mg/L

|                                | Minimum | Maximum |
|--------------------------------|---------|---------|
| Pascagoula River near Benndale | 16      | 160     |
| Yazoo River at Shell Bluff     | 114     | 184     |
| Yazoo River at Redwood         | 46      | 2540    |
| Big Black River at Bovina      | 50      | 502     |
| Homochitto River near Rosetta  | 8       | 332     |

Dissolved-oxygen concentrations measured in streams were lowest during the summer months when stream temperatures were highest and flow velocities lowest. The dissolved-oxygen concentrations were generally greater than 5.0 mg/L. Ranges of measured dissolved-oxygen concentrations in milligrams per liter in selected streams are shown in the following table:

Dissolved-oxygen concentration, in mg/L

|                                | Minimum | Maximum |
|--------------------------------|---------|---------|
| Tombigbee River near Columbus  | 8.5     | 12.0    |
| Pascagoula River near Benndale | 5.4     | 9.7     |
| Wolf River near Landon         | 7.5     | 10.1    |
| Yazoo River at Redwood         | 6.0     | 9.9     |
| Big Black River near Bovina    | 5.1     | 9.9     |
| Homochitto River at Rosetta    | 6.0     | 10.0    |

Determinations of pH at index stations indicate that the water of most streams was slightly acidic at times and that the pH generally was lowest in the southern part of the State. The pH of the water ranged from 6.6 to 7.8 units in the Yazoo River and from 6.5 to 8.3 units in the Tombigbee River. In the southern part of the State, the pH of the water in Wolf River near Landon and Pascagoula River near Benndale ranged from 5.6 to 6.5 units and 6.4 to 7.6 units, respectively.

Precipitation Quality

At the National Space and Technology Laboratory near Bay St. Louis on the Mississippi Gulf Coast, the specific conductance of precipitation samples ranged from 6 to 129 micromhos/cm. Further inland at the site near Janice in Perry County, the specific conductance ranged from 4 to 47 micromhos/cm. The dissolved minerals in the precipitation at both sites are those that are commonly found in the geohydrologic environment. Of the common constituents, sulfate generally was present in highest concentrations.

Chemical analysis of atmospheric precipitation at two sites in southern Mississippi indicate that, as in other parts of the country, the quality of precipitation is affected by airborne chemical substances. The pH was affected to some degree by substances containing and producing oxides of sulfur and nitrogen but to a lesser extent than precipitation in the more heavily industrialized sections of the country. At the site near Bay St. Louis the pH of precipitation ranged from 4.0 to 6.2 units and had a median pH value of 4.7 units. Near Janice the pH ranged from 4.1 to 5.6 units and had a median value of 4.6 units. At both sites pH values usually were lower than 5.0 units which is considered to be a minimum for precipitation in areas unaffected by industrial emissions. However, pH values usually were higher (less acidic) than those reported in some states in the northeastern part of the country (U.S. Geological Survey Water-Supply Paper 2250, 1984, page 61).

## SPECIAL NETWORKS AND PROGRAMS

Hydrologic Bench-Mark Network is a network of 57 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.

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 500 or so sites in NASQAN 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 or 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).

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 1985 water year that began October 1, 1984, and ended September 30, 1985. A calendar of the water-year is provided on the inside of the front cover. The records contain streamflow data, stage and content 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 stream site or well, in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. 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 indention in the "List of Stations" in the front of this report. Each indention represents one rank. This downstream order and system of indention 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-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-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 and miscellaneous surface-water-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 1 below.

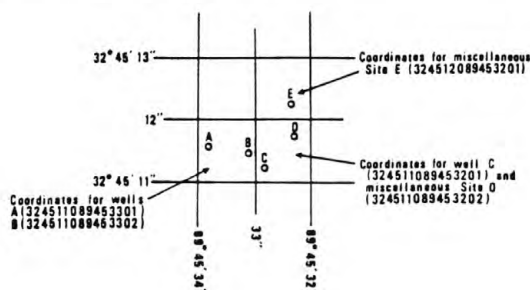


Figure 1.--System for numbering wells and miscellaneous sites (latitude and longitude)

#### 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 3 and 4.

#### 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, Book 3, Chapter A6.

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.

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

The records published for each gaging station consist of two parts, the manuscript or station description and the data table for the current water year. The manuscript provides, under various headings, descriptive information, such as station location; period of record; discharge; historical extremes; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments to follow clarify information presented under the various headings of the station description.

**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 glossary), 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 Geological Survey by a cooperating organization are identified here.

**AVERAGE DISCHARGE.**--The discharge value given is the arithmetic mean of the water-year mean discharges. It is computed only for stations having at least 5 water years of complete record, and only water years of complete record are included in the computation. It is not computed for stations where diversions, storage, or other water-use practices cause the value to be meaningless. If water developments significantly altering flow at a station are put into use after the station has been in operation for a period of years, a new average is computed as soon as 5 water years of record have accumulated following the development. The median of yearly mean discharges also is given under this heading for stations having 10 or more water years of record if the median differs from the average given by more than 10 percent.

**EXTREMES FOR PERIOD OF RECORD.**--Extremes may include maximum and minimum stages and maximum and minimum discharges or content. Unless otherwise qualified, the maximum discharge or content is the instantaneous maximum corresponding to the highest stage that occurred. The highest stage may have been obtained from a graphic or digital recorder, a crest-stage gage, or by direct observation of a

nonrecording gage. If the maximum stage did not occur on the same day as the maximum discharge or content, it is given separately. Similarly, the minimum is the instantaneous minimum discharge, unless otherwise qualified, and was determined and is reported in the same manner as the maximum.

**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.**--Extremes given here are similar to those for the period of record, except the peak discharge listing may include secondary peaks. 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 below the table of peak data.

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

Manuscript information for lake or reservoir stations differs from that for stream stations in the nature of the "Remarks" and in the inclusion of a skeleton stage-capacity table when daily contents are given.

The daily table for stream-gaging stations gives mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the 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 are omitted if there is extensive regulation or diversion or if the drainage area includes large noncontributing areas. In the yearly summary below the monthly summary, the figures shown are the appropriate discharges for the calendar and water years. At some stations monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversions or reservoir contents are given. These figures are identified by a symbol and corresponding footnote.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of annual maximum stage and discharge at crest-stage stations, and the second is a table of discharge measurements at low-flow partial-record stations. The tables of 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 District Office of 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 offices whose addresses are 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 figures 3 and 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 for miscellaneous sampling sites 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 given in publications on "Techniques of Water-Resources Investigations," Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4. All of these references are listed under "PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS" which appears at the end of the introductory text. Detailed information on collecting, treating, and shipping samples may be obtained from the District Office of the Mississippi District.

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 definitions) 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 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.

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 in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chap. C1. Methods used by the Geological Survey laboratory are given in TWRI, Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4.

#### 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 then 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 sampling sites 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.



## Remark Codes

The following remark codes may appear with the water-quality data in this report:

| <u>PRINTED OUTPUT</u> | <u>REMARK</u>                                                                                  |
|-----------------------|------------------------------------------------------------------------------------------------|
| E                     | Estimated value                                                                                |
| >                     | Actual value is known to be greater than the value shown                                       |
| <                     | Actual value is known to be less than the value shown                                          |
| 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) |
| D                     | Biological organism count equal to or greater than 15 percent (dominant)                       |
| &                     | Biological organism estimated as dominant                                                      |

Records of Ground-Water Levels

Only water-level data from a national network of observation wells are given in this report. These 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 this network in Mississippi are shown in figure 5.

## 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) National Geodetic Vertical Datum of 1929 (NGVD of 1929); 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. 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. Missing records are indicated by dashes in place of the water level.

#### 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 Techniques of Water-Resources Investigations" manuals listed at the end of the introductory text. 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. 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 National Water Data Storage and Retrieval System (WATSTORE) was established for handling water data collected through the activities of the U.S. Geological Survey and to provide for more effective and efficient means of releasing the data to the public. The system is operated and maintained on the central computer facilities of the Survey at its National Center in Reston, Virginia.

WATSTORE can provide a variety of useful products ranging from simple data tables to complex statistical analyses. A minimal fee, plus the actual computer cost incurred in producing a desired product, is charged to the requester. Information about the availability of specific types of data, the acquisition of data or products, and user charges can be obtained locally from the offices whose addresses are given on the back of the title page.

General inquiries about WATSTORE may be directed to:

Chief Hydrologist  
U.S. Geological Survey  
437 National Center  
Reston, Virginia 22092

## 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.

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°C. In the laboratory these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

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°C  $\pm$  0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found 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°C  $\pm$  1.0°C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

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 milligrams 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°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 zooplankton 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).

Cubic foot per second-day ( $\text{ft}^3/\text{d}$ ) is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.9835 acre-feet, about 646,000 gallons, or 2,445 cubic meters.



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 foot per second (ft<sup>3</sup>/s)<sup>1</sup> is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and 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 per square mile [ft<sup>3</sup>/s)/mi<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.

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.

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 (CaCO<sub>3</sub>).

Hydrologic Bench-Mark Network is a network of 57 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 (lsd) 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 (ug/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 (UG/L, ug/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.

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 500 or so sites in NASQAN 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 Nations 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).

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<sup>2</sup>), 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:

| <u>Classification</u> | <u>Size (mm)</u> | <u>Method of analyses</u> |
|-----------------------|------------------|---------------------------|
| 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.

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

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 a 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 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.



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 (7 Q<sub>10</sub>) 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.....   | Insects                  |
| Order.....   | Ephemeroptera            |
| Family.....  | Ephemeridae              |
| Genus.....   | <u>Hexagenia</u>         |
| Species..... | <u>Hexagenia limbata</u> |

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.

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.

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-Resources Data" 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 1975.

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 on techniques describing procedures for planning and executing 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) is on 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 Distribution, 604 South Pickett St., Alexandria, VA 22304 (authorized agent of the Superintendent of Documents, Government Printing Office).

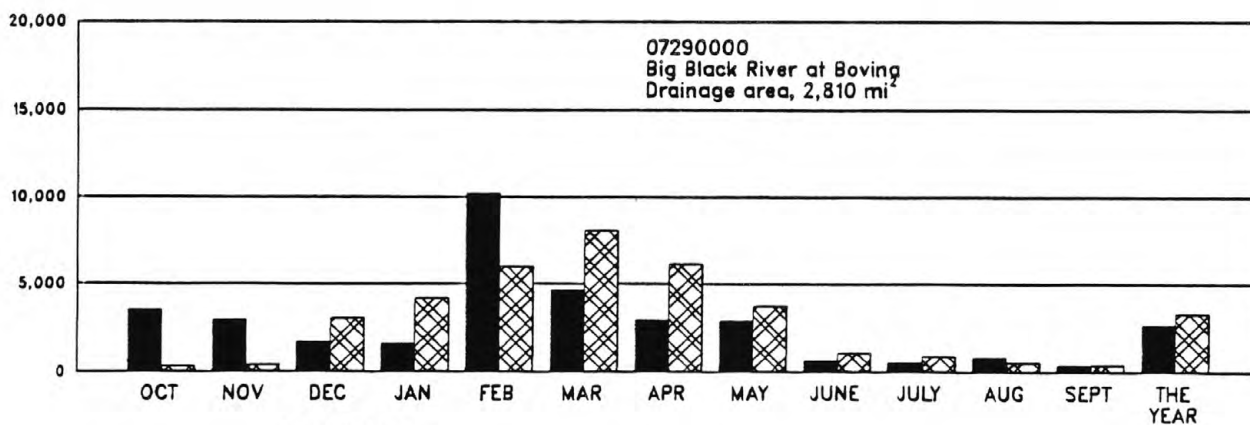
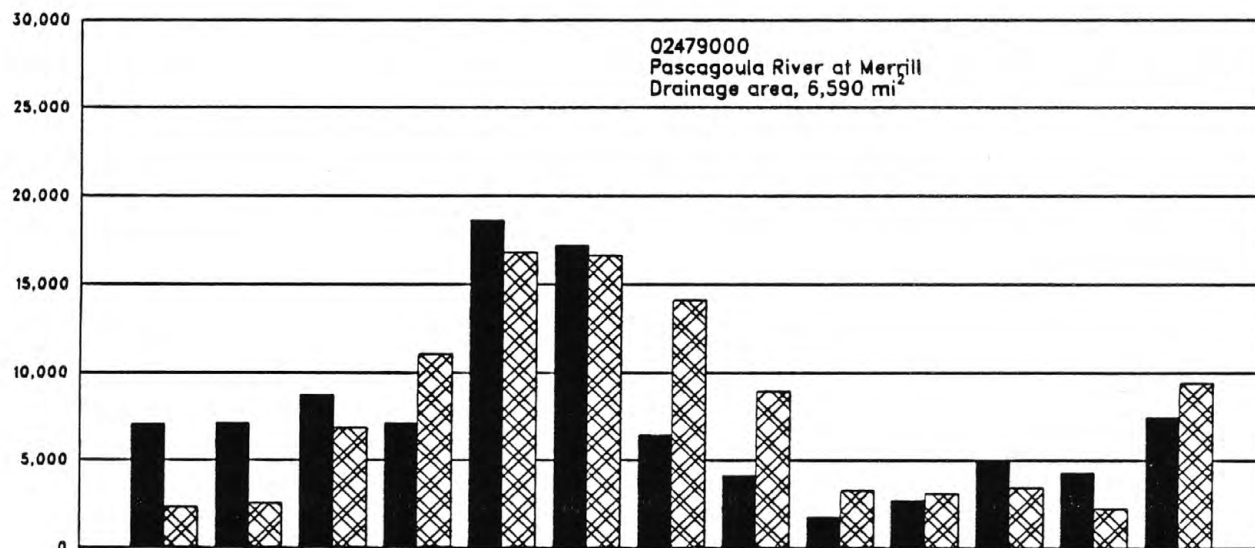
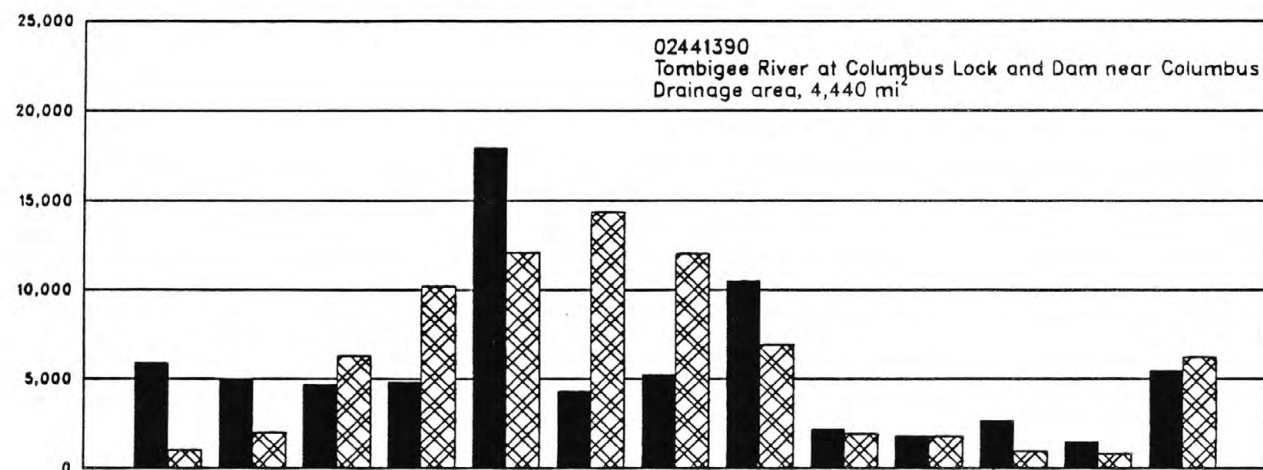
NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations".

- 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-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.
- 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 measurements 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 and dispersion in streams," by dye tracing by E. F. Hubbard, F. A. Kilpatrick, L. A. Martens, and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1982. 44 pages.
- 3-A10. "Discharge ratings at gaging stations," by E. J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1985. 59 pages.
- 3-A11. "Measurement of discharge by moving-boat method," by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 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.
- 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. 1986. 52 pages.
- 3-A17. "Acoustic Velocity Meter Systems," by Antonius Laenen: USGS--TWRI Book 3, Chapter A17. 1985. 38 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-C1. "Fluvial sediment concepts," by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
- 3-C2. "Field methods for measurement of fluvial sediment," by 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.

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

- 4-A1. "Some statistical tools in hydrology," by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
- 4-A2. "Frequency curves," by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.
- 4-B1. "Low-flow investigations," by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.
- 4-B2. "Storage analyses for water supply," by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
- 4-B3. "Regional analyses of streamflow characteristics," by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.
- 4-D1. "Computation of rate and volume of stream depletion," by wells by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.
- 5-A1. "Methods for determination of inorganic substances in water and fluvial sediments," by M. W. Skougstad and others, editors: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages.
- 5-A2. "Determination of minor elements in water by emission spectroscopy," by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.
- 5-A3. "Methods for analysis of organic substances in water," by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages.
- 5-A4. "Methods for collection and analysis of aquatic biological and microbiological samples edited," by P. E. Greeson, T. A. Ehlke, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages.
- 5-A5. "Methods for determination of radioactive substances in water and fluvial sediments," by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.
- 5-A6. "Quality assurance practices for the chemical and biological analyses of water and fluvial sediments," by L. C. Friedman and D. E. Erdmann: USGS--TWRI Book 5, Chapter A6. 1983. 181 pages.
- 5-C1. "Laboratory theory and methods for sediment analysis," by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 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.
- 7-C2. "Computer model of two-dimensional solute transport and dispersion in ground water," by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.
- 7-C3. "A model for simulation of flow in singular and interconnected channels," by R. W. Schaffranek, R. A. Baltzer, and D. E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.
- 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.

DISCHARGE, IN CUBIC FEET PER SECOND



EXPLANATION

■ Monthly and yearly mean discharge during 1985 water year.

▨ Median of monthly and yearly mean discharge for period 1951-80.

Figure 2. --Comparison of discharge during 1985 water year with median discharge for period 1951-80 for three representative gaging stations.



## WATER RESOURCES DATA FOR MISSISSIPPI, 1985

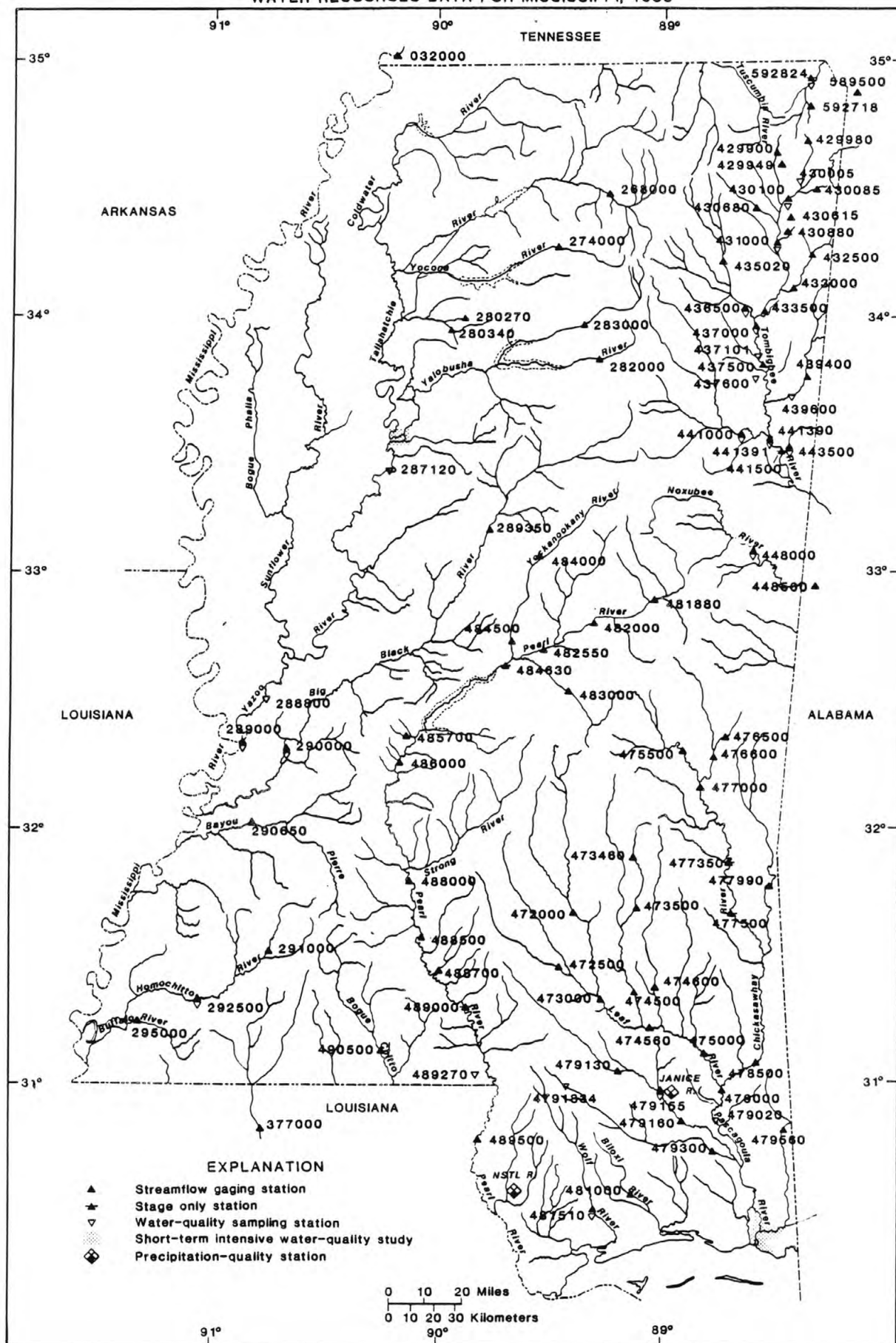


Figure 3.-- Location of hydrologic-data stations.

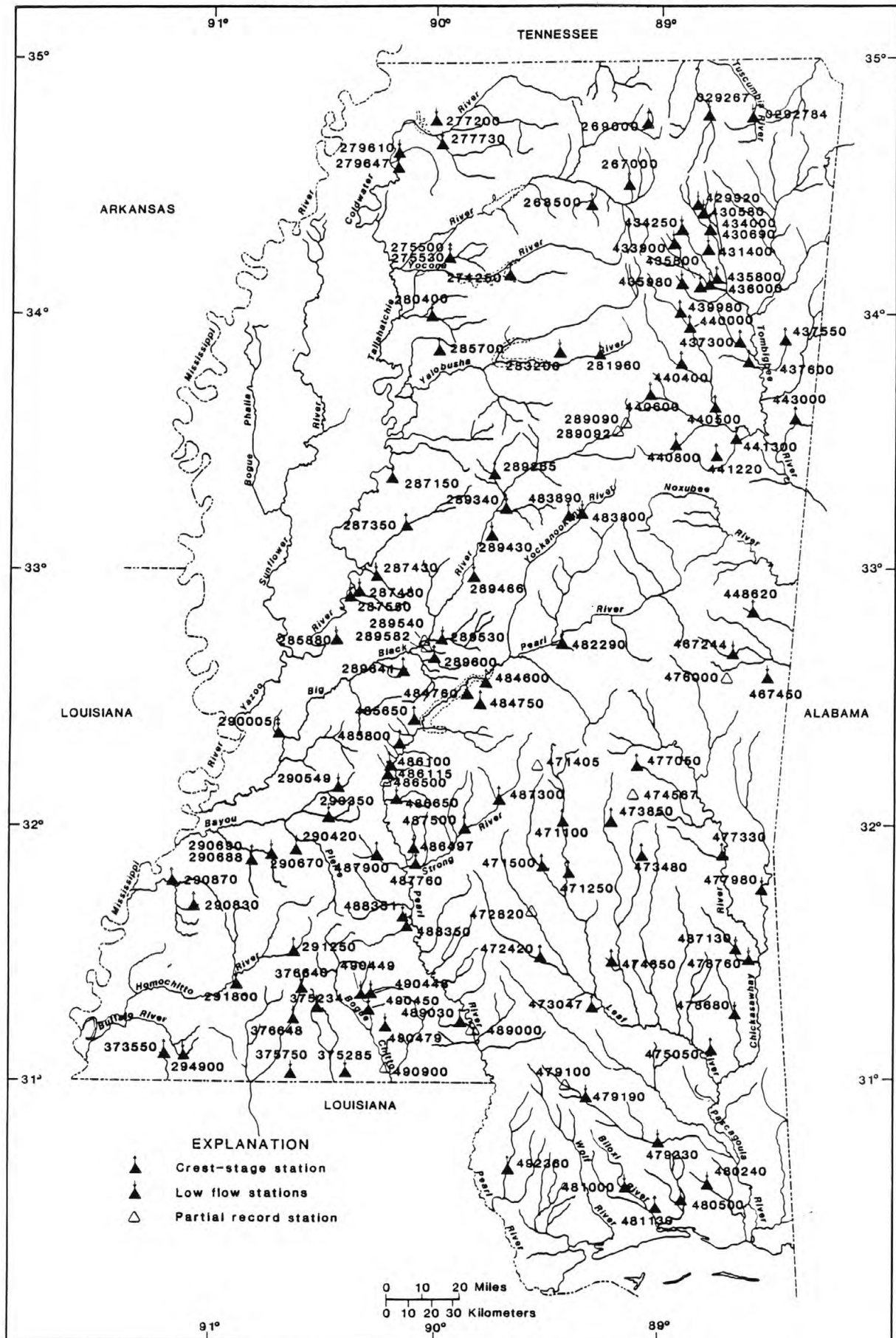
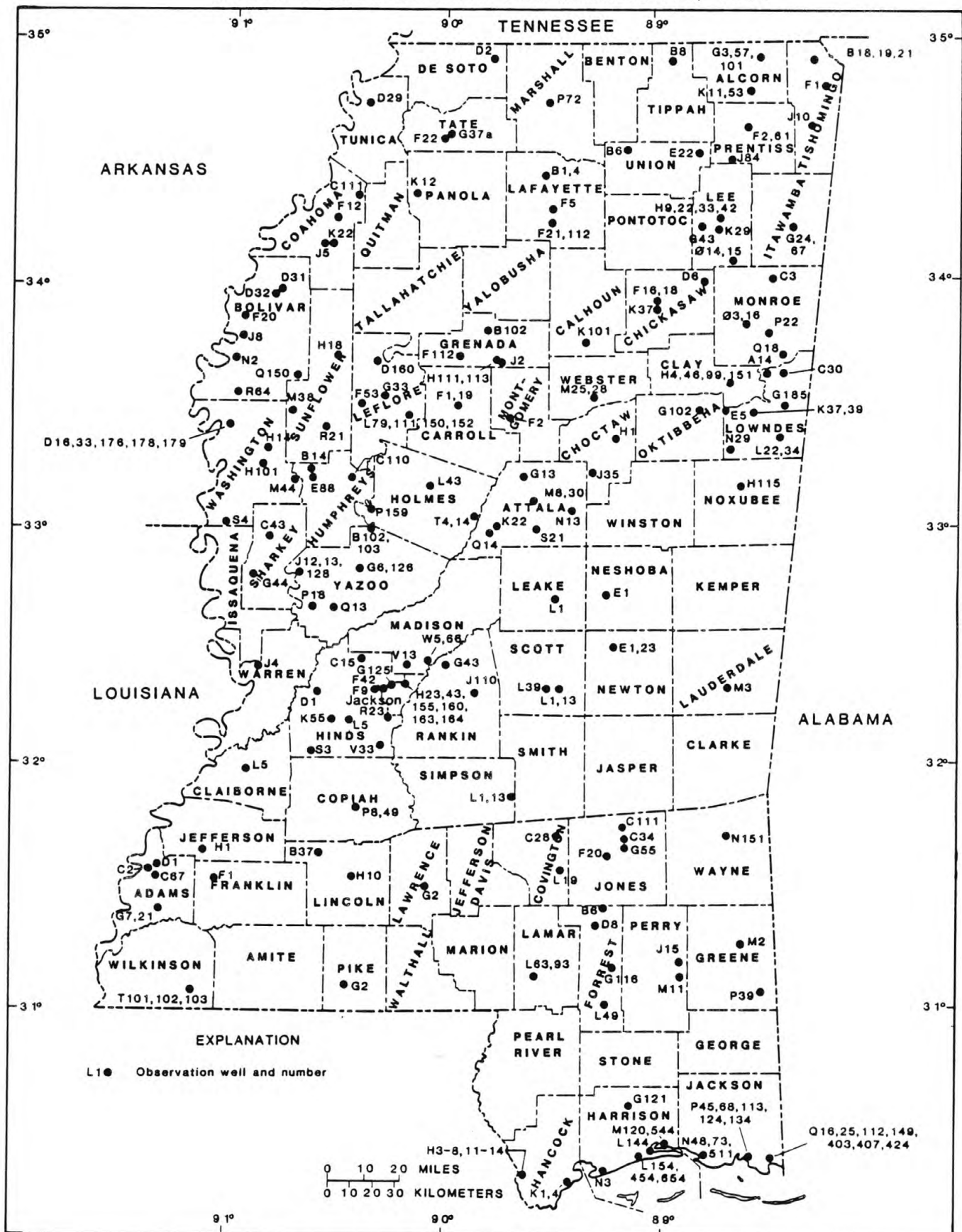


Figure 4.--Low flow and partial record sites



## HYDROLOGIC-DATA STATION RECORDS

25

## EASTERN GULF OF MEXICO BASINS

## MOBILE RIVER BASIN

02429900 BIG BROWN CREEK NEAR BOONEVILLE, MS

LOCATION.--Lat 34°37'07", long 88°26'42", SW¼ 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 stages, 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 National Geodetic Vertical Datum of 1929 (levels by Tennessee Valley Authority). Prior to June 1973, crest-stage gage at site 0.4 mi upstream at different datum.

REMARKS.--Estimated daily discharges: June 15-17, 19 and June 22 to July 8. Records good except for estimated daily discharges, which are poor. U. S. Army Corps of Engineers gage-height telemeter at station.

AVERAGE DISCHARGE.--12 years, 51.2 ft<sup>3</sup>/s, 25.66 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,900 ft<sup>3</sup>/s, Apr. 17, 1970, gage height, 99.97 ft, site and datum then in use; minimum, 0.16 ft<sup>3</sup>/s, Sept. 2, 3, 4, 1977.

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) |
|---------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Feb. 11 | 1445 | *784                              | *13.54              |      |      |                                   |                     |

Minimum discharge, 1.5 ft<sup>3</sup>/s, Oct. 1, 2, gage height, 2.95 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY         | OCT    | NOV      | DEC  | JAN  | FEB  | MAR  | APR  | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------------|--------|----------|------|------|------|------|------|--------|-------|-------|-------|-------|
| 1           | .46    | 5.3      | 39   | 27   | 57   | 42   | 52   | 194    | 4.0   | 1.7   | 3.2   | 2.2   |
| 2           | .50    | 22       | 33   | 21   | 42   | 39   | 42   | 139    | 3.4   | 1.6   | 2.6   | 2.1   |
| 3           | .50    | 9.1      | 31   | 25   | 42   | 39   | 38   | 61     | 2.7   | 1.5   | 2.2   | 2.0   |
| 4           | .49    | 7.0      | 24   | 36   | 38   | 39   | 35   | 43     | 2.3   | 30    | 2.2   | 2.9   |
| 5           | .50    | 5.7      | 26   | 25   | 160  | 42   | 83   | 36     | 2.0   | 7.0   | 9.0   | 4.4   |
| 6           | .52    | 4.2      | 31   | 24   | 126  | 34   | 65   | 31     | 1.9   | 4.0   | 17    | 3.0   |
| 7           | .98    | 3.7      | 23   | 25   | 77   | 33   | 42   | 40     | 1.8   | 2.6   | 5.1   | 2.4   |
| 8           | 21     | 3.5      | 22   | 26   | 56   | 32   | 36   | 105    | 2.0   | 1.9   | 3.0   | 2.6   |
| 9           | 2.0    | 3.4      | 21   | 23   | 52   | 31   | 33   | 45     | 2.0   | 2.0   | 2.3   | 4.4   |
| 10          | 1.1    | 28       | 20   | 34   | 99   | 29   | 32   | 41     | 1.8   | 1.8   | 1.9   | 2.4   |
| 11          | 1.0    | 15       | 18   | 27   | 496  | 30   | 30   | 36     | 2.0   | 1.7   | 1.7   | 2.1   |
| 12          | .92    | 8.6      | 18   | 23   | 267  | 28   | 29   | 29     | 6.3   | 1.6   | 1.6   | 2.0   |
| 13          | .76    | 6.6      | 19   | 22   | 217  | 26   | 30   | 24     | 2.3   | 1.5   | 1.5   | 1.8   |
| 14          | .59    | 6.2      | 18   | 23   | 196  | 26   | 41   | 21     | 2.4   | 1.6   | 1.6   | 1.7   |
| 15          | .57    | 12       | 16   | 20   | 186  | 25   | 62   | 18     | 2.3   | 7.7   | 1.4   | 1.6   |
| 16          | .55    | 17       | 16   | 37   | 135  | 24   | 40   | 16     | 2.2   | 87    | 82    | 1.6   |
| 17          | 3.9    | 10       | 16   | 81   | 97   | 24   | 33   | 14     | 2.1   | 19    | 91    | 1.6   |
| 18          | 1.4    | 123      | 16   | 40   | 46   | 22   | 30   | 15     | 23    | 3.8   | 16    | 1.6   |
| 19          | .97    | 188      | 17   | 32   | 51   | 22   | 27   | 12     | 6.9   | 2.3   | 7.7   | 1.6   |
| 20          | 1.0    | 108      | 33   | 24   | 46   | 22   | 25   | 10     | 2.8   | 1.9   | 12    | 1.5   |
| 21          | 5.3    | 88       | 27   | 22   | 41   | 39   | 23   | 12     | 2.0   | 1.6   | 10    | 1.6   |
| 22          | 42     | 79       | 38   | 24   | 38   | 101  | 21   | 26     | 1.9   | 6.2   | 4.5   | 1.7   |
| 23          | 129    | 74       | 24   | 24   | 41   | 43   | 31   | 18     | 2.0   | 15    | 3.3   | 1.9   |
| 24          | 67     | 72       | 23   | 23   | 174  | 36   | 327  | 14     | 1.9   | 3.1   | 4.6   | 2.4   |
| 25          | 14     | 61       | 30   | 22   | 78   | 31   | 74   | 11     | 1.8   | 16    | 15    | 2.1   |
| 26          | 8.6    | 35       | 23   | 21   | 62   | 29   | 54   | 8.7    | 1.7   | 23    | 8.0   | 2.3   |
| 27          | 6.4    | 125      | 22   | 25   | 50   | 36   | 58   | 7.4    | 23    | 34    | 4.4   | 2.4   |
| 28          | 5.3    | 127      | 22   | 50   | 44   | 35   | 54   | 5.7    | 7.0   | 14    | 3.4   | 2.2   |
| 29          | 4.3    | 88       | 21   | 31   | ---  | 31   | 40   | 6.1    | 3.2   | 13    | 2.9   | 2.0   |
| 30          | 3.6    | 63       | 20   | 30   | ---  | 29   | 33   | 5.0    | 2.0   | 7.1   | 2.6   | 2.6   |
| 31          | 3.3    | ---      | 20   | 55   | ---  | 124  | ---  | 4.1    | ---   | 4.3   | 2.5   | ---   |
| TOTAL       | 328.51 | 1398.3   | 727  | 922  | 3014 | 1143 | 1520 | 1048.0 | 122.7 | 319.5 | 326.2 | 66.7  |
| MEAN        | 10.6   | 46.6     | 23.5 | 29.7 | 108  | 36.9 | 50.7 | 33.8   | 4.09  | 10.3  | 10.5  | 2.22  |
| MAX         | 129    | 188      | 39   | 81   | 496  | 124  | 327  | 194    | 23    | 87    | 91    | 4.4   |
| MIN         | .46    | 3.4      | 16   | 20   | 38   | 22   | 21   | 4.1    | 1.7   | 1.5   | 1.4   | 1.5   |
| CFSM        | .39    | 1.72     | .87  | 1.10 | 3.99 | 1.36 | 1.87 | 1.25   | .15   | .38   | .39   | .08   |
| IN.         | .45    | 1.92     | 1.00 | 1.27 | 4.14 | 1.57 | 2.09 | 1.44   | .17   | .44   | .45   | .09   |
| CAL YR 1984 | TOTAL  | 14924.70 | MEAN | 40.8 | MAX  | 916  | MIN  | .43    | CFSM  | 1.51  | IN    | 20.49 |
| WTR YR 1985 | TOTAL  | 10935.91 | MEAN | 30.0 | MAX  | 496  | MIN  | .46    | CFSM  | 1.11  | IN    | 15.01 |



## MOBILE RIVER BASIN

02429949 LITTLE BROWN CREEK NEAR NEW SITE, MS

LOCATION.--Lat 34°32'14", long 88°24'02", in NW¼ sec.30, T.6 S., R.9 E., Chickasaw Meridian, Prentiss County, Hydrologic Unit 03160101, on right bank at downstream side of bridge on State Highway 4, 1.8 mi southwest of New Site, and 5.2 mi upstream from West Canal Little Brown Creek. Records include flow in West Canal Little Brown Creek.

DRAINAGE AREA.--42.2 mi<sup>2</sup> combined drainage area of all channels.

PERIOD OF RECORD.--June 1973 to current year.

REVISED RECORDS.--WDR MS-84-1: 1983.

GAGE.--Water-stage recorder. Datum of gage on main channel is 312.64 ft above National Geodetic Vertical Datum of 1929 (levels by U. S. Army Corps of Engineers). Supplementary water-stage recorder on West Canal Little Brown Creek, 0.2 mi northwest of base gage.

REMARKS.--Estimated daily discharges: Jan. 22-25, June 15-17, June 22 to July 8. Records good. Discharge computed by combining the flow of individually rated channels. U. S. Army Corps of Engineers gage-height telemeter at station.

AVERAGE DISCHARGE.--12 years, 69.3 ft<sup>3</sup>/s, 22.34 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,390 ft<sup>3</sup>/s, May 19, 1983, gage height, 14.65 ft; minimum daily, 6.6 ft<sup>3</sup>/s, Aug. 16, 1981, Oct. 8, 1981 and Sept. 3, 1983.

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) |
|---------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Feb. 11 | 1930 | *890                              | *11.42              |      |      |                                   |                     |

Minimum daily discharge, 7.1 ft<sup>3</sup>/s, Sept. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY         | OCT   | NOV     | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP   |
|-------------|-------|---------|------|------|------|------|------|------|------|------|------|-------|
| 1           | 7.3   | 19      | 56   | 31   | 92   | 43   | 72   | 247  | 15   | 13   | 12   | 15    |
| 2           | 7.3   | 44      | 51   | 27   | 63   | 39   | 51   | 451  | 14   | 12   | 12   | 14    |
| 3           | 7.1   | 21      | 52   | 34   | 64   | 37   | 45   | 137  | 13   | 12   | 11   | 16    |
| 4           | 7.4   | 18      | 41   | 54   | 60   | 38   | 42   | 80   | 12   | 66   | 11   | 21    |
| 5           | 7.2   | 16      | 44   | 36   | 176  | 41   | 95   | 62   | 12   | 23   | 11   | 24    |
| 6           | 7.4   | 15      | 56   | 32   | 172  | 33   | 126  | 52   | 12   | 16   | 19   | 17    |
| 7           | 17    | 13      | 40   | 31   | 100  | 32   | 62   | 73   | 12   | 14   | 13   | 16    |
| 8           | 138   | 13      | 37   | 33   | 71   | 30   | 50   | 282  | 13   | 12   | 12   | 14    |
| 9           | 16    | 13      | 34   | 28   | 66   | 29   | 45   | 104  | 12   | 12   | 11   | 15    |
| 10          | 12    | 71      | 33   | 38   | 140  | 27   | 42   | 78   | 13   | 12   | 11   | 14    |
| 11          | 12    | 33      | 30   | 35   | 660  | 28   | 40   | 63   | 15   | 11   | 11   | 13    |
| 12          | 11    | 22      | 30   | 28   | 325  | 29   | 38   | 50   | 26   | 11   | 11   | 13    |
| 13          | 11    | 18      | 29   | 27   | 134  | 27   | 38   | 45   | 15   | 10   | 10   | 11    |
| 14          | 11    | 16      | 28   | 27   | 97   | 26   | 50   | 41   | 13   | 10   | 10   | 11    |
| 15          | 12    | 30      | 26   | 25   | 77   | 24   | 89   | 35   | 20   | 10   | 10   | 11    |
| 16          | 12    | 34      | 25   | 52   | 62   | 23   | 59   | 30   | 32   | 74   | 120  | 11    |
| 17          | 17    | 21      | 28   | 140  | 56   | 22   | 47   | 28   | 15   | 44   | 195  | 10    |
| 18          | 14    | 169     | 28   | 64   | 53   | 21   | 40   | 28   | 46   | 16   | 41   | 10    |
| 19          | 14    | 282     | 29   | 49   | 66   | 20   | 39   | 25   | 20   | 13   | 26   | 9.9   |
| 20          | 15    | 63      | 43   | 36   | 62   | 23   | 33   | 23   | 16   | 11   | 112  | 9.6   |
| 21          | 40    | 43      | 36   | 36   | 49   | 43   | 31   | 23   | 14   | 10   | 42   | 9.4   |
| 22          | 107   | 37      | 42   | 37   | 42   | 229  | 29   | 47   | 13   | 11   | 29   | 10    |
| 23          | 180   | 34      | 32   | 38   | 42   | 73   | 39   | 35   | 14   | 25   | 23   | 13    |
| 24          | 41    | 31      | 31   | 37   | 247  | 54   | 480  | 28   | 13   | 13   | 24   | 16    |
| 25          | 26    | 28      | 42   | 34   | 103  | 45   | 136  | 23   | 13   | 13   | 27   | 12    |
| 26          | 21    | 27      | 32   | 28   | 75   | 39   | 78   | 21   | 12   | 22   | 23   | 13    |
| 27          | 18    | 261     | 29   | 29   | 56   | 44   | 79   | 19   | 49   | 46   | 19   | 12    |
| 28          | 18    | 275     | 28   | 81   | 46   | 48   | 74   | 17   | 31   | 24   | 18   | 11    |
| 29          | 17    | 79      | 27   | 47   | ---  | 41   | 57   | 17   | 17   | 27   | 17   | 11    |
| 30          | 16    | 71      | 26   | 42   | ---  | 38   | 48   | 15   | 14   | 17   | 16   | 15    |
| 31          | 14    | ---     | 25   | 77   | ---  | 137  | ---  | 15   | ---  | 14   | 16   | ---   |
| TOTAL       | 853.7 | 1817    | 1090 | 1313 | 3256 | 1383 | 2154 | 2194 | 535  | 624  | 923  | 397.9 |
| MEAN        | 27.5  | 60.6    | 35.2 | 42.4 | 116  | 44.6 | 71.8 | 70.8 | 17.8 | 20.1 | 29.8 | 13.3  |
| MAX         | 180   | 282     | 56   | 140  | 660  | 229  | 480  | 451  | 49   | 74   | 195  | 24    |
| MIN         | 7.1   | 13      | 25   | 25   | 42   | 20   | 29   | 15   | 12   | 10   | 10   | 9.4   |
| CFSM        | .65   | 1.44    | .83  | 1.01 | 2.75 | 1.06 | 1.70 | 1.68 | .42  | .48  | .71  | .32   |
| IN.         | .75   | 1.60    | .96  | 1.16 | 2.87 | 1.22 | 1.90 | 1.93 | .47  | .55  | .81  | .35   |
| CAL YR 1984 | TOTAL | 19979.5 | MEAN | 54.6 | MAX  | 984  | MIN  | 7.1  | CFSM | 1.29 | IN   | 17.61 |
| WTR YR 1985 | TOTAL | 16540.6 | MEAN | 45.3 | MAX  | 660  | MIN  | 7.1  | CFSM | 1.07 | IN   | 14.58 |

02429980 POLLARD MILL BRANCH AT PADEN, MS  
(Formerly published as Pollard Mill Branch near Paden, MS)

LOCATION.--Lat 34°39'10", long 88°15'00", in SE¼ 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 from topographic map.

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--13 years, 6.87 ft<sup>3</sup>/s, 46.42 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 524 ft<sup>3</sup>/s, May 19, 1983, gage height, 6.07 ft, from rating extended above 20 ft<sup>3</sup>/s on basis of computation of peak flow through culvert; minimum, 1.1 ft<sup>3</sup>/s, July 7, 1980; minimum gage height, 2.36 ft, Oct. 24-27, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 79 ft<sup>3</sup>/s, May 1, gage height, 3.49 ft; minimum discharge, 2.3 ft<sup>3</sup>/s, Sept. 11, 13 and 14; minimum gage height, 2.38 ft, Oct.1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 1     | 3.4   | 5.7   | 5.5   | 5.1   | 5.6   | 4.8   | 5.1   | 25    | 3.8   | 4.1   | 3.7   | 2.8  |
| 2     | 3.2   | 5.5   | 6.3   | 4.4   | 4.7   | 4.8   | 4.8   | 12    | 3.5   | 3.8   | 3.4   | 2.8  |
| 3     | 3.4   | 4.4   | 5.4   | 7.2   | 3.9   | 4.8   | 4.7   | 7.0   | 3.6   | 3.7   | 3.5   | 3.2  |
| 4     | 3.2   | 4.4   | 5.0   | 5.1   | 3.9   | 5.2   | 4.5   | 5.4   | 3.5   | 8.6   | 3.4   | 3.6  |
| 5     | 3.2   | 4.1   | 5.8   | 4.5   | 10    | 4.9   | 9.5   | 4.8   | 3.6   | 4.3   | 5.5   | 3.4  |
| 6     | 3.3   | 3.9   | 5.4   | 4.4   | 7.2   | 4.4   | 6.5   | 4.7   | 3.5   | 3.7   | 4.7   | 3.0  |
| 7     | 5.1   | 3.6   | 4.9   | 4.6   | 5.6   | 4.4   | 5.3   | 6.1   | 4.0   | 3.7   | 4.2   | 2.9  |
| 8     | 14    | 3.5   | 4.8   | 4.5   | 4.9   | 4.4   | 5.0   | 9.6   | 3.8   | 3.6   | 3.7   | 2.9  |
| 9     | 4.4   | 3.5   | 4.8   | 4.0   | 4.8   | 4.4   | 5.3   | 5.7   | 3.5   | 3.5   | 3.6   | 3.0  |
| 10    | 3.9   | 8.9   | 4.8   | 4.9   | 7.5   | 3.9   | 5.3   | 5.4   | 5.0   | 3.4   | 3.4   | 2.8  |
| 11    | 3.7   | 4.8   | 4.8   | 4.3   | 19    | 4.3   | 4.8   | 5.1   | 5.8   | 3.3   | 3.4   | 2.7  |
| 12    | 3.5   | 4.4   | 4.8   | 3.9   | 9.3   | 4.5   | 4.4   | 4.8   | 4.2   | 3.3   | 3.4   | 2.7  |
| 13    | 3.5   | 3.9   | 4.8   | 3.9   | 7.2   | 4.4   | 4.4   | 4.6   | 3.6   | 3.4   | 3.8   | 2.6  |
| 14    | 3.5   | 3.9   | 4.8   | 4.1   | 6.6   | 4.4   | 5.4   | 4.4   | 3.6   | 6.6   | 4.3   | 2.7  |
| 15    | 3.5   | 5.9   | 4.4   | 3.9   | 5.8   | 4.2   | 5.4   | 4.2   | 3.5   | 5.5   | 5.0   | 2.7  |
| 16    | 3.6   | 4.8   | 4.4   | 7.1   | 5.5   | 4.2   | 4.5   | 4.1   | 3.8   | 8.8   | 16    | 2.7  |
| 17    | 4.6   | 4.4   | 4.9   | 6.3   | 5.5   | 4.2   | 4.2   | 4.0   | 6.2   | 4.6   | 7.7   | 2.9  |
| 18    | 3.5   | 13    | 4.7   | 4.8   | 5.8   | 3.9   | 3.9   | 3.8   | 6.9   | 4.0   | 4.3   | 2.7  |
| 19    | 3.5   | 8.3   | 4.4   | 4.4   | 6.8   | 3.9   | 3.9   | 3.8   | 4.5   | 3.8   | 3.5   | 2.7  |
| 20    | 4.8   | 5.3   | 5.3   | 4.1   | 5.7   | 3.9   | 3.8   | 3.7   | 3.9   | 3.7   | 13    | 2.7  |
| 21    | 7.7   | 5.1   | 5.3   | 3.9   | 5.3   | 10    | 3.7   | 3.9   | 3.7   | 3.7   | 5.1   | 2.7  |
| 22    | 11    | 4.8   | 5.0   | 3.9   | 5.0   | 11    | 3.6   | 4.9   | 3.8   | 6.6   | 3.6   | 2.7  |
| 23    | 19    | 4.8   | 4.5   | 3.7   | 5.7   | 6.0   | 6.4   | 4.6   | 4.1   | 4.6   | 3.5   | 4.5  |
| 24    | 5.6   | 4.8   | 4.7   | 3.9   | 9.4   | 5.1   | 14    | 4.3   | 3.7   | 3.9   | 4.0   | 3.4  |
| 25    | 4.7   | 4.8   | 5.2   | 3.5   | 6.1   | 4.7   | 5.6   | 3.8   | 3.7   | 3.9   | 4.2   | 2.9  |
| 26    | 4.4   | 4.4   | 4.4   | 3.5   | 5.6   | 4.4   | 5.3   | 3.7   | 3.6   | 6.3   | 3.3   | 3.4  |
| 27    | 4.4   | 15    | 4.4   | 4.1   | 5.1   | 5.8   | 5.5   | 3.7   | 4.0   | 6.2   | 3.1   | 3.0  |
| 28    | 4.7   | 9.0   | 4.4   | 5.5   | 4.8   | 5.1   | 4.8   | 3.8   | 3.9   | 5.1   | 3.1   | 2.8  |
| 29    | 4.1   | 5.8   | 4.2   | 4.0   | ---   | 4.8   | 4.3   | 4.1   | 3.7   | 4.7   | 3.0   | 3.0  |
| 30    | 3.9   | 6.8   | 4.4   | 3.9   | ---   | 4.4   | 4.2   | 3.7   | 3.7   | 4.2   | 2.9   | 4.9  |
| 31    | 3.9   | ---   | 4.5   | 6.8   | ---   | 9.1   | ---   | 3.7   | ---   | 3.7   | 2.8   | ---  |
| TOTAL | 158.2 | 171.5 | 151.0 | 142.2 | 182.3 | 158.3 | 158.1 | 172.4 | 121.7 | 142.3 | 142.1 | 90.8 |
| MEAN  | 5.10  | 5.72  | 4.87  | 4.59  | 6.51  | 5.11  | 5.27  | 5.56  | 4.06  | 4.59  | 4.58  | 3.03 |
| MAX   | 19    | 15    | 6.3   | 7.2   | 19    | 11    | 14    | 25    | 6.9   | 8.8   | 16    | 4.9  |
| MIN   | 3.2   | 3.5   | 4.2   | 3.5   | 3.9   | 3.9   | 3.6   | 3.7   | 3.5   | 3.3   | 2.8   | 2.6  |
| CFSM  | 2.54  | 2.85  | 2.42  | 2.28  | 3.24  | 2.54  | 2.62  | 2.77  | 2.02  | 2.28  | 2.28  | 1.51 |
| IN.   | 2.93  | 3.17  | 2.79  | 2.63  | 3.37  | 2.93  | 2.92  | 3.19  | 2.25  | 2.63  | 2.63  | 1.68 |

CAL YR 1984 TOTAL 1989.9 MEAN 5.44 MAX 67 MIN 2.9 CFSM 2.71 IN 36.81  
WTR YR 1985 TOTAL 1790.9 MEAN 4.91 MAX 25 MIN 2.6 CFSM 2.44 IN 33.13

## MOBILE RIVER BASIN

02430005 TENN-TOM WATERWAY BELOW BAY SPRINGS LOCK AND DAM, MS

LOCATION.--Lat 34 31 24 , long 88 19 27 , in SW sec.26, T.6 S., R.9 E., Chickasaw Meridian, Tishomingo County, Hydrologic Unit 03160101, 800 ft downstream from lock, 6.9 mi southwest of Dennis, and at navigation mile 411.7.

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(NTU) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) |
|--------------|------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|----------------------------------------------|------------------------------|-------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| NOV<br>19... | 1500 | .00                                             | 112                                               | 7.5                            | 13.0                        | 10                                           | 10                           | 9.2                                 | --                                                             | 2.1                                                            |
| FEB<br>20... | 1500 | .00                                             | 102                                               | 7.3                            | 6.0                         | <1                                           | 2.0                          | 13.0                                | 105                                                            | 2.1                                                            |
| MAY<br>21... | 1430 | .00                                             | 105                                               | 7.9                            | 24.0                        | 5                                            | .90                          | 8.5                                 | 102                                                            | 2.3                                                            |
| JUL<br>30... | 1100 | .00                                             | 119                                               | 7.1                            | 28.0                        | 15                                           | 2.0                          | 6.0                                 | 77                                                             | .5                                                             |

| DATE         | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | HARD-<br>NESS<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CAC03) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LITY<br>LAB<br>(MG/L<br>AS<br>CAC03) |
|--------------|----------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|-----------------------------------------------|
| NOV<br>19... | --                                                             | 48                                     | 9                                                      | 14                                           | 3.1                                                  | 3.7                                          | 14                | .2                                      | 2.1                                                 | 39                                            |
| FEB<br>20... | <5                                                             | 47                                     | 6                                                      | 14                                           | 2.9                                                  | 3.7                                          | 14                | .2                                      | 2.2                                                 | 41                                            |
| MAY<br>21... | K9                                                             | 46                                     | 10                                                     | 14                                           | 2.6                                                  | 3.1                                          | 12                | .2                                      | 1.9                                                 | 36                                            |
| JUL<br>30... | <5                                                             | 48                                     | 8                                                      | 15                                           | 2.6                                                  | 3.4                                          | 13                | .2                                      | 1.9                                                 | 40                                            |

| DATE         | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTITU-<br>ENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N) |
|--------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|------------------------------------------------------|
| NOV<br>19... | 13                                            | 4.9                                                 | <.10                                               | 2.9                                               | 64                                                                 | 68                                                                  | .09                                                 | ---                                               | .010                                                 |
| FEB<br>20... | 10                                            | 4.7                                                 | <.10                                               | 2.2                                               | 69                                                                 | 64                                                                  | .09                                                 | ---                                               | <.010                                                |
| MAY<br>21... | 12                                            | 3.8                                                 | <.10                                               | 1.3                                               | 66                                                                 | 60                                                                  | .09                                                 | ---                                               | <.010                                                |
| JUL<br>30... | 12                                            | 4.0                                                 | .10                                                | 1.5                                               | 69                                                                 | 65                                                                  | .09                                                 | ---                                               | <.010                                                |

| DATE         | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |
|--------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|------------------------------------------------------|--------------------------------------------|------------------------------------------------------|
| NOV<br>19... | <.10                                                 | .130                                                 | .07                                                  | .20                                                                 | --                                        | .010                                        | <.010                                                | 260                                        | 360                                                  |
| FEB<br>20... | .20                                                  | .040                                                 | .76                                                  | .80                                                                 | 1.0                                       | <.010                                       | <.010                                                | 14                                         | 23                                                   |
| MAY<br>21... | <.10                                                 | .050                                                 | .45                                                  | .50                                                                 | --                                        | <.010                                       | <.010                                                | 18                                         | 7                                                    |
| JUL<br>30... | <.10                                                 | <.010                                                | --                                                   | .30                                                                 | --                                        | <.010                                       | <.010                                                | 18                                         | 170                                                  |

## MOBILE RIVER BASIN

02430005 TENN-TOM WATERWAY BELOW BAY SPRINGS LOCK AND DAM, MS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS) | ARSENIC<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS AS) | CADMIUM<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD) | CADMIUM<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CD) | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR) | CHRO-<br>MIUM,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G) | COBALT,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CO) | COBALT,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CO) | COPPER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU) |
|------|-------------------------------------|------------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------|
|------|-------------------------------------|------------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------|

|              |   |    |    |    |   |   |    |     |   |
|--------------|---|----|----|----|---|---|----|-----|---|
| JUL<br>30... | 1 | <1 | <1 | <1 | 3 | 4 | <1 | <10 | 1 |
|--------------|---|----|----|----|---|---|----|-----|---|

| DATE | COPPER,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CU) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB) | LEAD,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS PB) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) | MERCURY<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS HG) | NICKEL,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS NI) | NICKEL,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS NI) | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN) | ZINC,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS ZN) |
|------|----------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------|
|------|----------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------|

|              |   |   |     |     |     |   |     |    |    |
|--------------|---|---|-----|-----|-----|---|-----|----|----|
| JUL<br>30... | 4 | 3 | <10 | <.1 | .02 | 3 | <10 | 30 | 10 |
|--------------|---|---|-----|-----|-----|---|-----|----|----|

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE | PCB,<br>TOTAL<br>(UG/L) | PCB,<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | NAPH-<br>THA-<br>LENES,<br>POLY-<br>CHLOR.<br>TOTAL<br>(UG/L) | PCN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | ALDRIN,<br>TOTAL<br>(UG/L) | ALDRIN,<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | CHLOR-<br>DANE,<br>TOTAL<br>(UG/L) | CHLOR-<br>DANE,<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | DDD,<br>TOTAL<br>(UG/L) | DDD,<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) |
|------|-------------------------|-------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------|----------------------------|----------------------------------------------------|------------------------------------|------------------------------------------------------------|-------------------------|-------------------------------------------------|
|------|-------------------------|-------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------|----------------------------|----------------------------------------------------|------------------------------------|------------------------------------------------------------|-------------------------|-------------------------------------------------|

|              |     |    |      |      |       |     |     |      |       |    |
|--------------|-----|----|------|------|-------|-----|-----|------|-------|----|
| JUL<br>30... | <.1 | <1 | <.10 | <1.0 | <.010 | <.1 | <.1 | <1.0 | <.010 | .5 |
|--------------|-----|----|------|------|-------|-----|-----|------|-------|----|

| DATE | DDE,<br>TOTAL<br>(UG/L) | DDE,<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | DDT,<br>TOTAL<br>(UG/L) | DDT,<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | DI-<br>ELDRIN,<br>TOTAL<br>(UG/L) | DI-<br>ELDRIN,<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | ENDO-<br>SULFAN,<br>TOTAL<br>(UG/L) | ENDO-<br>SULFAN,<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | ENDRIN,<br>TOTAL<br>(UG/L) | ENDRIN,<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) |
|------|-------------------------|-------------------------------------------------|-------------------------|-------------------------------------------------|-----------------------------------|-----------------------------------------------------------|-------------------------------------|-------------------------------------------------------------|----------------------------|----------------------------------------------------|
|------|-------------------------|-------------------------------------------------|-------------------------|-------------------------------------------------|-----------------------------------|-----------------------------------------------------------|-------------------------------------|-------------------------------------------------------------|----------------------------|----------------------------------------------------|

|              |       |    |       |     |       |     |       |     |       |     |
|--------------|-------|----|-------|-----|-------|-----|-------|-----|-------|-----|
| JUL<br>30... | <.010 | .2 | <.010 | <.1 | <.010 | <.1 | <.010 | <.1 | <.010 | <.1 |
|--------------|-------|----|-------|-----|-------|-----|-------|-----|-------|-----|

| DATE | HEPTA-<br>CHLOR,<br>TOTAL<br>(UG/L) | HEPTA-<br>CHLOR,<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOTAL<br>(UG/L) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG) | LINDANE<br>TOTAL<br>(UG/L) | LINDANE<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>(UG/L) | METH-<br>OXY-<br>CHLOR,<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG) | MIREX,<br>TOTAL<br>(UG/L) |
|------|-------------------------------------|-------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------|----------------------------|----------------------------------------------------|--------------------------------------------|------------------------------------------------------------------|---------------------------|
|------|-------------------------------------|-------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------|----------------------------|----------------------------------------------------|--------------------------------------------|------------------------------------------------------------------|---------------------------|

|              |       |     |       |     |       |     |      |     |      |
|--------------|-------|-----|-------|-----|-------|-----|------|-----|------|
| JUL<br>30... | <.010 | <.1 | <.010 | <.1 | <.010 | <.1 | <.01 | <.1 | <.01 |
|--------------|-------|-----|-------|-----|-------|-----|------|-----|------|

| DATE | MIREX,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | PER-<br>THANE<br>TOTAL<br>(UG/L) | PER-<br>THANE<br>IN<br>BOTTOM<br>MATERIAL<br>(UG/KG) | TOX-<br>APHENE,<br>TOTAL<br>(UG/L) | TOXA-<br>PHENE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | 2,4-D,<br>TOTAL<br>(UG/L) | 2, 4-DP<br>TOTAL<br>(UG/L) | 2,4,5-T<br>TOTAL<br>(UG/L) | SILVEX,<br>TOTAL<br>(UG/L) |
|------|------------------------------------------------------------|----------------------------------|------------------------------------------------------|------------------------------------|---------------------------------------------------------------------|---------------------------|----------------------------|----------------------------|----------------------------|
|------|------------------------------------------------------------|----------------------------------|------------------------------------------------------|------------------------------------|---------------------------------------------------------------------|---------------------------|----------------------------|----------------------------|----------------------------|

|              |     |     |       |    |     |      |      |      |      |
|--------------|-----|-----|-------|----|-----|------|------|------|------|
| JUL<br>30... | <.1 | <.1 | <1.00 | <1 | <10 | <.01 | <.01 | <.01 | <.01 |
|--------------|-----|-----|-------|----|-----|------|------|------|------|



## MOBILE RIVER BASIN

02430005 TENN-TOM WATERWAY BELOW BAY SPRINGS LOCK AND DAM, MS--Continued

SPECTROGRAPHIC ANALYSES, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE      | ACE-NAPHTH-ENE<br>TOTAL<br>(UG/L)               | ACE-NAPHTH-ENE<br>BOT.MAT<br>(UG/KG)                        | ACE-NAPHTH-YLENE<br>TOTAL<br>(UG/L)                            | ACE-NAPHTH-YLENE<br>BOT.MAT<br>(UG/KG)                   | ANTHRA-CENE<br>TOTAL<br>(UG/L)             | ANTHRA-CENE<br>BOT.MAT<br>(UG/KG)                 | BENZO A<br>ANTHRACENE1,2-BENZANTHRACENE<br>TOTAL<br>(UG/L) | BENZO A<br>ANTHRACENE1,2-BENZANTHRACENE<br>BOT.MAT<br>(UG/KG) | BENZO B<br>FLUOR-AN-THENE<br>TOTAL<br>(UG/L)           | BENZO B<br>FLUOR-AN-THENE<br>BOT.MAT<br>(UG/KG)     | BENZO K<br>FLUOR-AN-THENE<br>TOTAL<br>(UG/L)           |
|-----------|-------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------|---------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------|
| JUL 30... | <5.0                                            | <200                                                        | <5.0                                                           | <200                                                     | <5.0                                       | <200                                              | <5.0                                                       | <200                                                          | <10.0                                                  | <400                                                | <10.0                                                  |
| DATE      | BENZO K<br>FLUOR-AN-THENE<br>BOT.MAT<br>(UG/KG) | BENZOGH I PERYL<br>ENE1,12-BENZOPERYLENE<br>TOTAL<br>(UG/L) | BENZOGH I PERYL<br>ENE1,12-BENZOPERYLENE<br>BOT.MAT<br>(UG/KG) | BENZO-A-PYRENE<br>TOTAL<br>(UG/L)                        | BENZO-A-PYRENE<br>BOT.MAT<br>(UG/KG)       | 4-BROMO-PHENYL<br>PHENYL ETHER<br>TOTAL<br>(UG/L) | 4-BROMO-PHENYL<br>PHENYL ETHER<br>BOT.MAT<br>(UG/KG)       | N-BUTYL<br>BENZYL PHTHAL-ATE<br>TOTAL<br>(UG/L)               | N-BUTYL<br>BENZYL PHTHAL-ATE<br>BOT.MAT<br>(UG/KG)     | BIS (2-CHLORO-ETHOXY)<br>METHANE<br>TOTAL<br>(UG/L) | BIS (2-CHLORO-ETHOXY)<br>METHANE<br>BOT.MAT<br>(UG/KG) |
| JUL 30... | <400                                            | <10.0                                                       | <400                                                           | <10.0                                                    | <400                                       | <5.0                                              | <200                                                       | <5.0                                                          | <200                                                   | <5.0                                                | <200                                                   |
| DATE      | BIS 2-CHLORO-ETHYL ETHER<br>TOTAL<br>(UG/L)     | BIS (2-CHLORO-ETHYL ETHER<br>BOT.MAT<br>(UG/KG)             | BIS (2-CHLORO-ISO-PROPYL)<br>ETHER<br>TOTAL<br>(UG/L)          | BIS (2-CHLORO-ISO-PROPYL)<br>ETHER<br>BOT.MAT<br>(UG/KG) | 2-CHLORO-NAPH-THALENE<br>TOTAL<br>(UG/L)   | 2-CHLORO-NAPH-THALENE<br>BOT.MAT<br>(UG/KG)       | 4-CHLORO-PHENYL<br>ETHER<br>TOTAL<br>(UG/L)                | CHRY-SENE<br>TOTAL<br>(UG/L)                                  | CHRY-SENE<br>BOT.MAT<br>(UG/KG)                        | 1,2,5,6-DIBENZ-ANTHRA-CENE<br>TOTAL<br>(UG/L)       | 1,2,5,6-DIBENZ-ANTHRA-CENE<br>BOT.MAT<br>(UG/KG)       |
| JUL 30... | <5.0                                            | <200                                                        | <5.0                                                           | <200                                                     | <5.0                                       | <200                                              | <5.0                                                       | <10.0                                                         | <400                                                   | <10.0                                               | <400                                                   |
| DATE      | 1,2-DI-CHLORO-BENZENE<br>TOTAL<br>(UG/L)        | 1,2-DI-CHLORO-BENZENE<br>BOT.MAT<br>(UG/KG)                 | 1,3-DI-CHLORO-BENZENE<br>TOTAL<br>(UG/L)                       | 1,3-DI-CHLORO-BENZENE<br>BOT.MAT<br>(UG/KG)              | 1,4-DI-CHLORO-BENZENE<br>TOTAL<br>(UG/L)   | 1,4-DI-CHLORO-BENZENE<br>BOT.MAT<br>(UG/KG)       | DIETHYL PHTHAL-ATE<br>TOTAL<br>(UG/L)                      | DIETHYL PHTHAL-ATE<br>BOT.MAT<br>(UG/KG)                      | DI-METHYL PHTHAL-ATE<br>TOTAL<br>(UG/L)                | DI-METHYL PHTHAL-ATE<br>BOT.MAT<br>(UG/KG)          | DI-N-BUTYL PHTHAL-ATE<br>TOTAL<br>(UG/L)               |
| JUL 30... | <5.0                                            | <200                                                        | <5.0                                                           | <200                                                     | <5.0                                       | <200                                              | <5.0                                                       | <200                                                          | <5.0                                                   | <200                                                | <5.0                                                   |
| DATE      | DI-N-BUTYL PHTHAL-ATE<br>BOT.MAT<br>(UG/KG)     | 2,4-DI-NITRO-TOLUENE<br>TOTAL<br>(UG/L)                     | 2,4-DI-NITRO-TOLUENE<br>BOT.MAT<br>(UG/KG)                     | 2,6-DI-NITRO-TOLUENE<br>TOTAL<br>(UG/L)                  | 2,6-DI-NITRO-TOLUENE<br>BOT.MAT<br>(UG/KG) | DI-N-OCTYL PHTHAL-ATE<br>TOTAL<br>(UG/L)          | DI-N-OCTYL PHTHAL-ATE<br>BOT.MAT<br>(UG/KG)                | BIS(2-ETHYL HEXYL)<br>PHTHAL-ATE<br>TOTAL<br>(UG/L)           | BIS(2-ETHYL HEXYL)<br>PHTHAL-ATE<br>BOT.MAT<br>(UG/KG) | FLUOR-ANTHENE<br>TOTAL<br>(UG/L)                    | FLUOR-ANTHENE<br>BOT.MAT<br>(UG/KG)                    |
| JUL 30... | <200                                            | <5.0                                                        | <200                                                           | <5.0                                                     | <200                                       | <10.0                                             | <400                                                       | <31.0                                                         | <200                                                   | <5.0                                                | <200                                                   |
| DATE      | FLUOR-ENE<br>TOTAL<br>(UG/L)                    | FLUOR-ENE<br>BOT.MAT<br>(UG/L)                              | HEXA-CHLORO-BENZENE<br>TOTAL<br>(UG/L)                         | HEXA-CHLORO-BENZENE<br>TOT. IN BOTTOM MATL.<br>(UG/KG)   | HEXA-CHLORO-BUT-ADIENE<br>TOTAL<br>(UG/L)  | HEXA-CHLORO-BUT-ADIENE<br>BOT.MAT<br>(UG/KG)      | HEXA-CHLORO-CYCLO-PENT-ADIENE<br>TOTAL<br>(UG/L)           | HEXA-CHLORO-CYCLO-PENT-ADIENE<br>BOT.MAT<br>(UG/KG)           | HEXA-CHLORO-ETHANE<br>TOTAL<br>(UG/L)                  | HEXA-CHLORO-ETHANE<br>BOT.MAT<br>(UG/KG)            |                                                        |
| JUL 30... | <5.0                                            | <200                                                        | <5.0                                                           | <200                                                     | <5.0                                       | <200                                              | <5.0                                                       | <200                                                          | <5.0                                                   | <200                                                |                                                        |

SPECTROGRAPHIC ANALYSES, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

[illegible]

## MOBILE RIVER BASIN

02430085 RED BUD CREEK NEAR MOORES MILL, MS

LOCATION.--34°28'00", long 88°17'00", in SW¼SE¼ 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 National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Jan. 20-22 and May 30. Records good.

AVERAGE DISCHARGE.--10 years, 25.9 ft<sup>3</sup>/s, 22.40 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,690 ft<sup>3</sup>/s, Dec. 3, 1983, gage height, 12.25 ft; minimum, 1.6 ft<sup>3</sup>/s, Aug. 10, 11, 14, 1981.

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) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Oct. 8  | 1215 | 393                               | 8.89                | Apr. 24 | 0245 | 549                               | 10.01               |
| Nov. 18 | 2230 | 648                               | 10.51               | June 18 | 0145 | 370                               | 8.71                |
| Feb. 11 | 1130 | *657                              | *10.54              | Aug. 16 | 2200 | 440                               | 9.25                |

Minimum discharge, 2.8 ft<sup>3</sup>/s, Oct. 1, 2; minimum gage height, 3.78 ft, July 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY         | OCT   | NOV    | DEC  | JAN  | FEB  | MAR  | APR  | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|--------|------|------|------|------|------|-------|-------|-------|-------|-------|
| 1           | 2.9   | 12     | 34   | 17   | 52   | 32   | 36   | 72    | 5.5   | 7.3   | 5.6   | 5.6   |
| 2           | 2.9   | 41     | 48   | 13   | 48   | 29   | 29   | 76    | 5.0   | 6.0   | 5.2   | 5.1   |
| 3           | 2.9   | 13     | 39   | 32   | 48   | 27   | 26   | 38    | 4.7   | 5.6   | 5.1   | 5.5   |
| 4           | 3.0   | 11     | 28   | 28   | 46   | 28   | 23   | 26    | 4.5   | 18    | 4.9   | 6.3   |
| 5           | 3.0   | 9.4    | 31   | 18   | 87   | 29   | 34   | 21    | 4.4   | 13    | 4.6   | 6.8   |
| 6           | 3.1   | 7.7    | 30   | 17   | 77   | 23   | 32   | 17    | 4.3   | 7.8   | 4.9   | 6.0   |
| 7           | 5.3   | 7.2    | 23   | 18   | 53   | 21   | 23   | 16    | 4.4   | 6.6   | 5.4   | 5.0   |
| 8           | 92    | 7.0    | 22   | 17   | 40   | 21   | 19   | 31    | 4.8   | 5.7   | 4.8   | 4.7   |
| 9           | 10    | 6.7    | 20   | 15   | 38   | 19   | 18   | 22    | 4.5   | 5.0   | 4.3   | 4.7   |
| 10          | 6.7   | 37     | 19   | 26   | 71   | 18   | 18   | 20    | 4.4   | 4.8   | 4.1   | 4.4   |
| 11          | 6.3   | 16     | 17   | 18   | 339  | 18   | 17   | 17    | 5.9   | 4.8   | 4.0   | 4.2   |
| 12          | 5.7   | 12     | 17   | 15   | 133  | 17   | 17   | 13    | 6.9   | 4.5   | 4.0   | 4.0   |
| 13          | 5.3   | 9.3    | 16   | 15   | 87   | 16   | 17   | 12    | 4.6   | 4.1   | 4.2   | 3.7   |
| 14          | 5.2   | 9.1    | 15   | 15   | 72   | 16   | 21   | 10    | 4.3   | 4.0   | 4.1   | 3.6   |
| 15          | 5.1   | 32     | 14   | 13   | 59   | 15   | 36   | 8.8   | 14    | 4.0   | 5.4   | 3.6   |
| 16          | 5.0   | 23     | 14   | 42   | 50   | 15   | 24   | 8.4   | 40    | 6.5   | 84    | 3.6   |
| 17          | 13    | 14     | 23   | 73   | 46   | 15   | 18   | 8.1   | 47    | 5.8   | 67    | 3.4   |
| 18          | 7.0   | 128    | 19   | 38   | 44   | 13   | 16   | 8.1   | 122   | 4.5   | 17    | 3.3   |
| 19          | 6.9   | 168    | 21   | 28   | 57   | 14   | 14   | 7.5   | 25    | 9.8   | 11    | 3.3   |
| 20          | 8.8   | 43     | 30   | 22   | 54   | 13   | 13   | 7.2   | 14    | 4.6   | 16    | 3.3   |
| 21          | 42    | 27     | 21   | 22   | 40   | 35   | 12   | 7.7   | 11    | 4.3   | 12    | 3.3   |
| 22          | 95    | 20     | 22   | 20   | 34   | 104  | 11   | 11    | 8.8   | 14    | 8.4   | 3.3   |
| 23          | 90    | 17     | 16   | 20   | 36   | 41   | 15   | 9.2   | 8.5   | 11    | 7.2   | 5.3   |
| 24          | 22    | 15     | 16   | 20   | 85   | 31   | 200  | 8.0   | 7.3   | 5.6   | 15    | 5.4   |
| 25          | 14    | 14     | 21   | 17   | 58   | 25   | 53   | 7.3   | 6.6   | 5.7   | 21    | 4.3   |
| 26          | 10    | 13     | 16   | 14   | 49   | 22   | 38   | 7.0   | 6.1   | 11    | 15    | 4.9   |
| 27          | 8.6   | 130    | 15   | 17   | 39   | 32   | 36   | 6.8   | 11    | 19    | 9.5   | 4.2   |
| 28          | 12    | 125    | 15   | 39   | 34   | 28   | 29   | 6.4   | 10    | 11    | 8.0   | 3.9   |
| 29          | 9.0   | 51     | 14   | 22   | ---  | 23   | 22   | 7.1   | 7.9   | 11    | 7.3   | 3.9   |
| 30          | 7.5   | 46     | 13   | 22   | ---  | 21   | 18   | 6.1   | 6.8   | 8.3   | 6.8   | 4.6   |
| 31          | 6.9   | ---    | 13   | 46   | ---  | 78   | ---  | 5.7   | ---   | 6.2   | 6.2   | ---   |
| TOTAL       | 517.1 | 1064.4 | 662  | 739  | 1876 | 839  | 885  | 521.4 | 414.2 | 239.5 | 382.0 | 133.2 |
| MEAN        | 16.7  | 35.5   | 21.4 | 23.8 | 67.0 | 27.1 | 29.5 | 16.8  | 13.8  | 7.73  | 12.3  | 4.44  |
| MAX         | 95    | 168    | 48   | 73   | 339  | 104  | 200  | 76    | 122   | 19    | 84    | 6.8   |
| MIN         | 2.9   | 6.7    | 13   | 13   | 34   | 13   | 11   | 5.7   | 4.3   | 4.0   | 4.0   | 3.3   |
| CFSM        | 1.06  | 2.26   | 1.36 | 1.52 | 4.27 | 1.73 | 1.88 | 1.07  | .88   | .49   | .78   | .28   |
| IN          | 1.23  | 2.52   | 1.57 | 1.75 | 4.44 | 1.99 | 2.10 | 1.24  | .98   | .57   | .91   | .32   |
| CAL YR 1984 | TOTAL | 9976.3 | MEAN | 27.3 | MAX  | 541  | MIN  | 2.5   | CFSM  | 1.74  | IN    | 23.64 |
| WTR YR 1985 | TOTAL | 8272.8 | MEAN | 22.7 | MAX  | 339  | MIN  | 2.9   | CFSM  | 1.45  | IN    | 19.60 |

LOCATION.--Lat 34°29'13", long 88°20'44", in SW¼NW¼ sec.10, T.7 S., R.9 E., Chickasaw Meridian, Prentiss County, Hydrologic Unit 03160601, on left bank 15 ft upstream from county bridge, 1.0 mi west of Moores Mill, and 0.5 mi west of the Tennessee-Tombigbee Waterway.

WATER-DISCHARGE RECORDS

REMARKS.--No estimated daily discharges. Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,500 ft<sup>3</sup>/s, Dec. 3, 1983, from rating curve extended above 400 ft<sup>3</sup>/s on basis of runoff comparisons with nearby streams, gage height, unknown; minimum, 1.9 ft<sup>3</sup>/s, Oct. 15, 1984, gage height 1.33 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 110 ft<sup>3</sup>/s, Nov. 18, gage height 3.77 ft<sup>3</sup>/s, minimum discharge, 1.9 ft<sup>3</sup>/s, gage height 1.33 ft.

| DAY         | OCT   | NOV     | DEC       | JAN      | FEB     | MAR      | APR      | MAY  | JUN   | JUL  | AUG   | SEP   |
|-------------|-------|---------|-----------|----------|---------|----------|----------|------|-------|------|-------|-------|
| 1           | 17    | 15      | 69        | 56       | 50      | 44       | 46       | 47   | 11    | 10   | 11    | 18    |
| 2           | 18    | 17      | 69        | 56       | 48      | 43       | 49       | 53   | 11    | 11   | 10    | 15    |
| 3           | 16    | 16      | 70        | 58       | 47      | 42       | 47       | 48   | 10    | 13   | 10    | 13    |
| 4           | 17    | 16      | 64        | 60       | 47      | 42       | 45       | 47   | 10    | 13   | 10    | 12    |
| 5           | 15    | 16      | 63        | 56       | 50      | 42       | 46       | 47   | 9.4   | 13   | 9.7   | 11    |
| 6           | 13    | 16      | 64        | 56       | 49      | 42       | 46       | 46   | 9.9   | 13   | 10    | 10    |
| 7           | 19    | 16      | 64        | 56       | 47      | 41       | 45       | 57   | 11    | 12   | 10    | 9.1   |
| 8           | 25    | 20      | 67        | 55       | 46      | 41       | 44       | 70   | 11    | 12   | 10    | 9.1   |
| 9           | 14    | 30      | 68        | 54       | 46      | 45       | 44       | 63   | 11    | 12   | 10    | 8.9   |
| 10          | 12    | 43      | 64        | 55       | 48      | 42       | 44       | 62   | 11    | 12   | 11    | 8.2   |
| 11          | 13    | 60      | 62        | 53       | 59      | 54       | 42       | 58   | 13    | 12   | 9.7   | 8.3   |
| 12          | 10    | 62      | 64        | 52       | 51      | 65       | 43       | 55   | 12    | 12   | 10    | 7.9   |
| 13          | 8.3   | 67      | 63        | 52       | 48      | 63       | 42       | 53   | 12    | 12   | 10    | 7.9   |
| 14          | 8.1   | 74      | 63        | 52       | 47      | 61       | 43       | 52   | 11    | 12   | 9.7   | 7.7   |
| 15          | 5.1   | 78      | 63        | 52       | 46      | 60       | 42       | 53   | 11    | 12   | 9.4   | 7.4   |
| 16          | 10    | 81      | 67        | 53       | 45      | 59       | 42       | 51   | 12    | 12   | 14    | 7.9   |
| 17          | 11    | 79      | 67        | 55       | 45      | 57       | 41       | 49   | 12    | 12   | 13    | 8.0   |
| 18          | 8.9   | 88      | 63        | 50       | 45      | 54       | 40       | 50   | 14    | 12   | 10    | 7.3   |
| 19          | 8.0   | 93      | 65        | 50       | 46      | 55       | 38       | 51   | 12    | 13   | 9.5   | 7.2   |
| 20          | 8.1   | 84      | 64        | 49       | 46      | 49       | 38       | 46   | 12    | 12   | 11    | 7.4   |
| 21          | 11    | 71      | 60        | 52       | 46      | 51       | 39       | 46   | 12    | 12   | 9.8   | 7.5   |
| 22          | 13    | 70      | 58        | 53       | 47      | 55       | 37       | 46   | 12    | 10   | 9.1   | 7.8   |
| 23          | 13    | 71      | 59        | 51       | 47      | 48       | 38       | 45   | 12    | 11   | 20    | 7.8   |
| 24          | 7.9   | 70      | 58        | 51       | 51      | 48       | 46       | 45   | 11    | 11   | 45    | 6.7   |
| 25          | 8.1   | 70      | 58        | 49       | 48      | 47       | 38       | 43   | 12    | 11   | 37    | 7.2   |
| 26          | 14    | 69      | 57        | 48       | 46      | 47       | 38       | 44   | 12    | 14   | 39    | 6.9   |
| 27          | 13    | 79      | 59        | 49       | 44      | 47       | 40       | 44   | 11    | 13   | 37    | 6.9   |
| 28          | 13    | 84      | 58        | 50       | 43      | 47       | 38       | 44   | 12    | 11   | 30    | 6.2   |
| 29          | 13    | 81      | 58        | 47       | ---     | 46       | 39       | 45   | 12    | 11   | 22    | 6.3   |
| 30          | 12    | 76      | 58        | 48       | ---     | 46       | 37       | 37   | 11    | 10   | 22    | 7.0   |
| 31          | 14    | ---     | 57        | 48       | ---     | 48       | ---      | 12   | ---   | 11   | 20    | ---   |
| TOTAL       | 388.5 | 1712    | 1943      | 1626     | 1328    | 1531     | 1257     | 1509 | 343.3 | 367  | 498.9 | 261.6 |
| MEAN        | 12.5  | 57.1    | 62.7      | 52.5     | 47.4    | 49.4     | 41.9     | 48.7 | 11.4  | 11.8 | 16.1  | 8.72  |
| MAX         | 25    | 93      | 70        | 60       | 59      | 65       | 49       | 70   | 14    | 14   | 45    | 18    |
| MIN         | 5.1   | 15      | 57        | 47       | 43      | 41       | 37       | 12   | 9.4   | 10   | 9.1   | 6.2   |
| CFSM        | .11   | .49     | .53       | .45      | .40     | .42      | .36      | .41  | .10   | .10  | .14   | .07   |
| IN.         | .12   | .54     | .61       | .51      | .42     | .48      | .40      | .48  | .11   | .12  | .16   | .08   |
| CAL YR 1984 | TOTAL | 32455.1 | MEAN 88.7 | MAX 1170 | MIN 5.1 | CFSM .76 | IN 10.27 |      |       |      |       |       |
| WTR YR 1985 | TOTAL | 12765.3 | MEAN 35.0 | MAX 93   | MIN 5.1 | CFSM .30 | IN 4.04  |      |       |      |       |       |



## MOBILE RIVER BASIN

02430100 MACKEYS CREEK NEAR MOORES MILL, MS--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1983 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August 1983 to July 1984.

pH: August 1983 to July 1984.

WATER TEMPERATURE: August 1983 to July 1984.

DISSOLVED OXYGEN: September 1983 to July 1984.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(NTU) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) |
|--------------|------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|----------------------------------------------|------------------------------|-------------------------------------|----------------------------------------------------------------|
| NOV<br>19... | 1445 | 92                                              | 48                                                | 6.1                            | 13.0                        | 100                                          | 75                           | 9.2                                 | 4.2                                                            |
| FEB<br>19... | 1040 | 40                                              | 90                                                | 6.5                            | 6.0                         | 15                                           | 25                           | 11.6                                | 2.9                                                            |
| JUN<br>12... | 1315 | 9.2                                             | 98                                                | 7.1                            | 23.0                        | 10                                           | 5.0                          | 7.0                                 | --                                                             |
| AUG<br>01... | 0930 | 7.8                                             | 114                                               | 7.2                            | 26.0                        | 15                                           | 6.0                          | 6.4                                 | .1                                                             |

| DATE         | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CACO3) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LINITY<br>LAB<br>(MG/L<br>AS<br>CACO3) |
|--------------|----------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|-------------------------------------------------|
| NOV<br>19... | K8500                                                          | 18                                     | 3                                                      | 5.3                                          | 1.2                                                  | 1.6                                          | 14                | .2                                      | 1.9                                                 | 15                                              |
| FEB<br>19... | K120                                                           | 34                                     | 4                                                      | 10                                           | 2.3                                                  | 2.6                                          | 13                | .2                                      | 1.6                                                 | 30                                              |
| JUN<br>12... | K60                                                            | 39                                     | 8                                                      | 12                                           | 2.3                                                  | 2.6                                          | 12                | .2                                      | 1.3                                                 | 31                                              |
| AUG<br>01... | K27                                                            | 45                                     | 7                                                      | 14                                           | 2.5                                                  | 3.3                                          | 13                | .2                                      | 1.8                                                 | 38                                              |

| DATE         | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTITUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | NITRO-<br>GEN,<br>NITRATE<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N) |
|--------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| NOV<br>19... | 6.8                                           | 3.1                                                 | <.10                                               | 4.2                                               | 46                                                                 | 34                                                             | .06                                                 | 11                                                | .07                                                  | .030                                                 |
| FEB<br>19... | 9.3                                           | 3.8                                                 | <.10                                               | 3.8                                               | 69                                                                 | 52                                                             | .09                                                 | 7.5                                               | .18                                                  | .020                                                 |
| JUN<br>12... | 8.4                                           | 5.8                                                 | .10                                                | 2.1                                               | 62                                                                 | 54                                                             | .08                                                 | 1.5                                               | --                                                   | <.010                                                |
| AUG<br>01... | 11                                            | 3.9                                                 | <.10                                               | 2.0                                               | 66                                                                 | 62                                                             | .09                                                 | 1.4                                               | --                                                   | <.010                                                |

| DATE         | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |
|--------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|------------------------------------------------------|--------------------------------------------|------------------------------------------------------|
| NOV<br>19... | .10                                                  | .300                                                 | 2.1                                                  | 2.4                                                                 | 2.5                                       | .070                                        | <.010                                                | 300                                        | 200                                                  |
| FEB<br>19... | .20                                                  | .080                                                 | .52                                                  | .60                                                                 | .80                                       | <.010                                       | <.010                                                | 130                                        | 330                                                  |
| JUN<br>12... | <.10                                                 | .190                                                 | .21                                                  | .40                                                                 | --                                        | <.010                                       | <.010                                                | 140                                        | 340                                                  |
| AUG<br>01... | <.10                                                 | .030                                                 | .37                                                  | .40                                                                 | --                                        | <.010                                       | <.010                                                | 69                                         | 160                                                  |

## MOBILE RIVER BASIN

02430100 MACKEYS CREEK NEAR MOORES MILL, MS--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS) | ARSENIC<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS AS) | CADMIUM<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD) | CADMIUM<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CD) | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR) | CHRO-<br>MIUM,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS G) | COBALT,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CO) | COBALT,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CO) | COPPER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU) |
|--------------|-------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------|
| AUG<br>01... | 1                                   | <1                                                                  | 1                                                       | <1                                                                   | 4                                                              | 1                                                                          | <1                                                      | <10                                                                  | 2                                                       |

| DATE         | COPPER,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CU) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB) | LEAD,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS PB) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) | MERCURY<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS HG) | NICKEL,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS NI) | NICKEL,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS NI) | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN) | ZINC,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS ZN) |
|--------------|----------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------|
| AUG<br>01... | <1                                                                   | 12                                                    | <10                                                                | <.1                                                     | .06                                                                  | 10                                                      | <10                                                                  | 10                                                    | 1                                                                  |

## PESTICIDE ANALYSES, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | PCB,<br>TOTAL<br>(UG/L) | PCB,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | NAPH-<br>THA-<br>LENES,<br>POLY-<br>CHLOR.<br>TOTAL<br>(UG/L) | PCN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | ALDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L) | ALDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | CHLOR-<br>DANE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L) | CHLOR-<br>DANE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | DDD,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L) | DDD,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) |
|--------------|-------------------------|----------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------|
| AUG<br>01... | <.1                     | <1                                                       | <.10                                                          | <1.0                                                     | <.010                                                      | <.1                                                         | <.1                                                                | <1.0                                                                | <.010                                                   | .1                                                       |

| DATE         | DDE,<br>TOTAL<br>(UG/L) | DDE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | DDT,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L) | DDT,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | DI-<br>ELDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L) | DI-<br>ELDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | ENDO-<br>SULFAN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L) | ENDO-<br>SULFAN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | ENDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L) | ENDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) |
|--------------|-------------------------|----------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------|
| AUG<br>01... | <.010                   | <.1                                                      | <.010                                                   | <.1                                                      | <.010                                                             | <.1                                                                | <.010                                                               | <.1                                                                  | <.010                                                      | <.1                                                         |

| DATE         | HEPTA-<br>CHLOR,<br>TOTAL<br>(UG/L) | HEPTA-<br>CHLOR,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | HEPTA-<br>CHLOR,<br>EPOXIDE<br>TOTAL<br>(UG/L) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG) | LINDANE<br>TOTAL<br>(UG/L) | LINDANE<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>(UG/L) | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | MIREX,<br>TOTAL<br>(UG/L) |
|--------------|-------------------------------------|----------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------|----------------------------|-------------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------|---------------------------|
| AUG<br>01... | <.010                               | <.1                                                                  | <.010                                          | <.1                                                                 | <.010                      | <.1                                                         | <.01                                       | <.1                                                                         | <.01                      |

| DATE         | MIREX,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | PER-<br>THANE<br>TOTAL<br>(UG/L) | PER-<br>THANE<br>IN<br>BOTTOM<br>MATERIAL<br>(UG/KG) | TOX-<br>APHENE,<br>TOTAL<br>(UG/L) | TOXA-<br>PHENE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | 2,4-D,<br>TOTAL<br>(UG/L) | 2, 4-DP<br>TOTAL<br>(UG/L) | 2,4,5-T<br>TOTAL<br>(UG/L) | SILVEX,<br>TOTAL<br>(UG/L) |
|--------------|------------------------------------------------------------|----------------------------------|------------------------------------------------------|------------------------------------|---------------------------------------------------------------------|---------------------------|----------------------------|----------------------------|----------------------------|
| AUG<br>01... | <.1                                                        | <.1                              | <1.00                                                | <1                                 | <10                                                                 | <.01                      | <.01                       | <.01                       | <.01                       |

## MOBILE RIVER BASIN

02430615 MUD CREEK NEAR FAIRVIEW, MS

LOCATION.--Lat 34°23'32", long 88°21'17", in NW¼NE¼ 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 National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Jan. 21-23, Mar. 7-18, Apr. 10-12 and May 31 to June 5. Records good.

AVERAGE DISCHARGE.--10 years, 17.2 ft<sup>3</sup>/s, 21.04 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 760 ft<sup>3</sup>/s, Dec. 3, 1983, maximum gage height, 9.50 ft, Dec. 3, 1983; minimum discharge, 1.4 ft<sup>3</sup>/s, Aug. 10, 1981, gage height, 3.69 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 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) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Nov. 18 | 2215 | 251                               | 8.32                | Apr. 24 | 0345 | *323                              | *8.64               |

Minimum discharge, 2.6 ft<sup>3</sup>/s, Sept. 12, gage height, 3.82 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC  | JAN  | FEB  | MAR  | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| 1     | 3.6   | 18    | 19   | 16   | 42   | 20   | 24    | 49    | 5.8   | 6.2   | 4.7   | 4.1   |
| 2     | 3.6   | 32    | 35   | 12   | 57   | 19   | 19    | 43    | 5.6   | 5.8   | 4.8   | 3.9   |
| 3     | 3.6   | 10    | 23   | 26   | 57   | 18   | 18    | 22    | 5.4   | 6.2   | 4.7   | 5.7   |
| 4     | 3.6   | 8.5   | 17   | 23   | 56   | 19   | 16    | 16    | 5.2   | 8.0   | 4.6   | 8.1   |
| 5     | 3.4   | 7.3   | 20   | 16   | 57   | 21   | 24    | 14    | 5.0   | 6.8   | 4.2   | 6.7   |
| 6     | 3.5   | 6.3   | 20   | 16   | 39   | 17   | 21    | 13    | 4.6   | 5.8   | 4.9   | 5.5   |
| 7     | 10    | 6.0   | 16   | 16   | 27   | 16   | 16    | 12    | 4.7   | 4.9   | 5.1   | 4.6   |
| 8     | 57    | 5.8   | 15   | 16   | 20   | 16   | 15    | 57    | 5.0   | 4.5   | 4.4   | 4.6   |
| 9     | 11    | 5.7   | 15   | 14   | 20   | 16   | 14    | 25    | 4.7   | 4.3   | 4.1   | 5.0   |
| 10    | 7.3   | 22    | 14   | 23   | 40   | 15   | 14    | 24    | 5.1   | 3.9   | 3.8   | 4.4   |
| 11    | 6.7   | 10    | 13   | 16   | 120  | 15   | 13    | 19    | 9.6   | 3.8   | 3.8   | 4.1   |
| 12    | 5.3   | 7.7   | 13   | 14   | 52   | 14   | 14    | 15    | 9.8   | 3.6   | 3.8   | 3.8   |
| 13    | 4.8   | 6.8   | 13   | 14   | 37   | 14   | 14    | 12    | 5.7   | 3.4   | 4.3   | 3.5   |
| 14    | 4.6   | 6.8   | 13   | 14   | 34   | 14   | 23    | 11    | 5.1   | 3.3   | 3.7   | 3.4   |
| 15    | 4.9   | 38    | 12   | 12   | 29   | 13   | 39    | 9.7   | 5.2   | 3.3   | 4.3   | 3.4   |
| 16    | 4.8   | 22    | 12   | 37   | 25   | 13   | 23    | 8.8   | 11    | 4.8   | 42    | 3.4   |
| 17    | 21    | 13    | 19   | 45   | 24   | 13   | 17    | 8.5   | 11    | 4.9   | 25    | 3.3   |
| 18    | 7.3   | 76    | 15   | 26   | 24   | 12   | 15    | 8.6   | 49    | 4.0   | 9.9   | 3.2   |
| 19    | 11    | 56    | 17   | 20   | 31   | 12   | 13    | 8.0   | 16    | 3.7   | 6.7   | 3.2   |
| 20    | 9.2   | 21    | 21   | 19   | 30   | 12   | 12    | 7.4   | 9.8   | 3.4   | 6.0   | 3.0   |
| 21    | 41    | 16    | 16   | 18   | 22   | 38   | 11    | 8.4   | 7.8   | 3.2   | 5.5   | 3.1   |
| 22    | 69    | 14    | 16   | 17   | 19   | 75   | 9.9   | 14    | 7.2   | 3.4   | 5.0   | 3.1   |
| 23    | 63    | 13    | 14   | 16   | 22   | 31   | 16    | 11    | 6.8   | 3.9   | 4.8   | 5.6   |
| 24    | 19    | 12    | 13   | 15   | 57   | 25   | 115   | 8.9   | 6.1   | 12    | 8.8   | 6.0   |
| 25    | 12    | 12    | 19   | 13   | 35   | 20   | 28    | 7.7   | 5.8   | 6.3   | 16    | 4.7   |
| 26    | 9.4   | 11    | 14   | 11   | 29   | 17   | 22    | 7.1   | 11    | 19    | 9.4   | 4.3   |
| 27    | 8.2   | 82    | 13   | 14   | 23   | 26   | 21    | 6.7   | 14    | 27    | 6.5   | 3.6   |
| 28    | 10    | 47    | 13   | 33   | 20   | 21   | 18    | 6.6   | 11    | 13    | 6.1   | 3.5   |
| 29    | 7.7   | 24    | 13   | 17   | ---  | 17   | 15    | 9.6   | 8.4   | 9.7   | 5.2   | 3.5   |
| 30    | 6.4   | 28    | 12   | 17   | ---  | 16   | 13    | 6.8   | 7.0   | 6.3   | 5.0   | 4.4   |
| 31    | 5.7   | ---   | 13   | 42   | ---  | 50   | ---   | 6.1   | ---   | 5.0   | 4.5   | ---   |
| TOTAL | 437.6 | 637.9 | 498  | 608  | 1048 | 645  | 632.9 | 475.9 | 268.4 | 203.4 | 231.6 | 128.7 |
| MEAN  | 14.1  | 21.3  | 16.1 | 19.6 | 37.4 | 20.8 | 21.1  | 15.4  | 8.95  | 6.56  | 7.47  | 4.29  |
| MAX   | 69    | 82    | 35   | 45   | 120  | 75   | 115   | 57    | 49    | 27    | 42    | 8.1   |
| MIN   | 3.4   | 5.7   | 12   | 11   | 19   | 12   | 9.9   | 6.1   | 4.6   | 3.2   | 3.7   | 3.0   |
| CFSM  | 1.27  | 1.92  | 1.45 | 1.77 | 3.37 | 1.87 | 1.90  | 1.39  | .81   | .59   | .67   | .39   |
| IN.   | 1.47  | 2.14  | 1.67 | 2.04 | 3.51 | 2.16 | 2.12  | 1.59  | .90   | .68   | .78   | .43   |

CAL YR 1984 TOTAL 6405.2 MEAN 17.5 MAX 217 MIN 3.0 CFSM 1.58 IN 21.46  
WTR YR 1985 TOTAL 5815.4 MEAN 15.9 MAX 120 MIN 3.0 CFSM 1.43 IN 19.49

## 02430680 TWENTYMILE CREEK NEAR GUNTOWN, MS

LOCATION.--Lat 34°27'11", long 88°34'37", in SW¼ sec.21, T.7 S., R.7 E., Chickasaw Meridian, Lee County, Hydrologic Unit 03160101, on downstream side of bridge on county road, and 6.0 mi southeast of Baldwin, and 6.0 mi east of Guntown.

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

PERIOD OF RECORD.--October 1982 to current year.

GAGE.--Water-stage recorder and sharp-crested weir since November, 1982. Datum of gage is 280.00 ft above National Geodetic Vertical Datum of 1929. 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.

REMARKS.--Estimated daily discharges: Dec. 25 to Jan. 24 and May 2-6 records good except for estimated daily discharges, which are poor. U. S. Army Corps of Engineers gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,400 ft<sup>3</sup>/s, May 19, 1983, gage height, 28.86 ft, from flood-mark; minimum daily, 0.31 ft<sup>3</sup>/s, Oct. 5, 1985.

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) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Nov. 18 | 2245 | *8,590                            | *17.63              | Mar. 31 | 0630 | 4,100                             | 14.42               |
| Nov. 27 | 2100 | 3,560                             | 14.02               | Apr. 24 | 0500 | 3,810                             | 14.21               |
| Feb. 10 | 1900 | 3,660                             | 14.10               | May 1   | 0545 | 5,850                             | 15.69               |
| Feb. 24 | 0430 | 5,190                             | 15.19               |         |      |                                   |                     |

Minimum daily discharge 0.31 ft<sup>3</sup>/s, Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT     | NOV    | DEC  | JAN  | FEB   | MAR  | APR  | MAY  | JUN   | JUL   | AUG    | SEP   |
|-------|---------|--------|------|------|-------|------|------|------|-------|-------|--------|-------|
| 1     | .57     | 12     | 105  | 66   | 698   | 117  | 201  | 1970 | 11    | 7.4   | 5.8    | 3.4   |
| 2     | .55     | 114    | 200  | 62   | 568   | 105  | 108  | 393  | 8.7   | 5.9   | 5.7    | 3.2   |
| 3     | .49     | 35     | 179  | 52   | 324   | 93   | 84   | 236  | 7.2   | 5.4   | 4.9    | 3.7   |
| 4     | .40     | 22     | 77   | 131  | 151   | 96   | 70   | 131  | 6.5   | 7.2   | 3.7    | 11    |
| 5     | .31     | 18     | 79   | 92   | 1040  | 137  | 422  | 85   | 5.9   | 10    | 2.8    | 34    |
| 6     | .43     | 13     | 153  | 66   | 1210  | 87   | 311  | 63   | 5.6   | 6.9   | 4.1    | 15    |
| 7     | 11      | 10     | 70   | 72   | 664   | 76   | 110  | 542  | 6.5   | 5.8   | 6.9    | 7.9   |
| 8     | 184     | 8.8    | 54   | 79   | 330   | 75   | 80   | 728  | 6.2   | 4.8   | 4.2    | 12    |
| 9     | 40      | 8.3    | 65   | 66   | 271   | 69   | 66   | 182  | 6.5   | 3.7   | 3.0    | 242   |
| 10    | 11      | 361    | 52   | 118  | 1370  | 61   | 57   | 122  | 6.5   | 3.2   | 2.3    | 21    |
| 11    | 7.7     | 78     | 43   | 127  | 3520  | 62   | 56   | 94   | 6.8   | 15    | 2.0    | 11    |
| 12    | 5.7     | 32     | 39   | 66   | 719   | 64   | 54   | 68   | 7.0   | 6.1   | 1.7    | 6.8   |
| 13    | 4.4     | 23     | 40   | 60   | 353   | 55   | 54   | 52   | 5.2   | 3.6   | 2.0    | 5.0   |
| 14    | 3.5     | 17     | 39   | 56   | 250   | 52   | 81   | 43   | 4.8   | 2.6   | 2.2    | 3.9   |
| 15    | 3.3     | 37     | 46   | 52   | 175   | 48   | 236  | 35   | 3.9   | 2.1   | 2.2    | 3.3   |
| 16    | 3.1     | 72     | 46   | 262  | 133   | 45   | 154  | 28   | 3.6   | 41    | 470    | 2.5   |
| 17    | 23      | 33     | 37   | 1050 | 120   | 44   | 77   | 24   | 3.5   | 61    | 352    | 2.2   |
| 18    | 14      | 1730   | 37   | 210  | 113   | 39   | 59   | 23   | 42    | 14    | 29     | 2.1   |
| 19    | 8.6     | 1390   | 45   | 131  | 140   | 37   | 50   | 21   | 20    | 7.5   | 16     | 2.0   |
| 20    | 7.8     | 155    | 118  | 92   | 171   | 38   | 44   | 19   | 9.1   | 5.5   | 12     | 1.8   |
| 21    | 113     | 80     | 84   | 52   | 123   | 67   | 39   | 19   | 5.9   | 4.3   | 8.6    | 1.8   |
| 22    | 713     | 58     | 191  | 75   | 99    | 389  | 35   | 22   | 4.8   | 3.2   | 6.5    | 1.6   |
| 23    | 1280    | 47     | 79   | 77   | 121   | 115  | 52   | 24   | 4.3   | 2.3   | 5.1    | 3.0   |
| 24    | 116     | 43     | 64   | 72   | 2490  | 82   | 1410 | 19   | 6.4   | 2.8   | 20     | 3.9   |
| 25    | 44      | 38     | 59   | 68   | 428   | 61   | 174  | 16   | 10    | 20    | 62     | 4.4   |
| 26    | 28      | 33     | 59   | 50   | 260   | 51   | 104  | 13   | 25    | 45    | 20     | 4.7   |
| 27    | 21      | 799    | 52   | 53   | 173   | 65   | 194  | 12   | 228   | 84    | 10     | 3.1   |
| 28    | 18      | 770    | 48   | 528  | 128   | 87   | 419  | 11   | 55    | 19    | 7.4    | 2.2   |
| 29    | 16      | 147    | 42   | 191  | ---   | 70   | 123  | 13   | 19    | 14    | 6.0    | 1.9   |
| 30    | 13      | 127    | 39   | 150  | ---   | 62   | 75   | 14   | 11    | 12    | 4.8    | 21    |
| 31    | 11      | ---    | 42   | 751  | ---   | 1270 | ---  | 13   | ---   | 7.0   | 4.1    | ---   |
| TOTAL | 2702.85 | 6311.1 | 2283 | 4977 | 16142 | 3719 | 4999 | 5035 | 545.9 | 432.3 | 1087.0 | 441.4 |
| MEAN  | 87.2    | 210    | 73.6 | 161  | 577   | 120  | 167  | 162  | 18.2  | 13.9  | 35.1   | 14.7  |
| MAX   | 1280    | 1730   | 200  | 1050 | 3520  | 1270 | 1410 | 1970 | 228   | 84    | 470    | 242   |
| MIN   | .31     | 8.3    | 37   | 50   | 99    | 37   | 35   | 11   | 3.5   | 2.1   | 1.7    | 1.6   |
| CFSM  | .67     | 1.60   | .56  | 1.23 | 4.41  | .92  | 1.28 | 1.24 | .14   | .11   | .27    | .11   |
| IN.   | .77     | 1.79   | .65  | 1.41 | 4.58  | 1.06 | 1.42 | 1.43 | .16   | .12   | .31    | .13   |

CAL YR 1984 TOTAL 60860.71 MEAN 166 MAX 5800 MIN .31 CFSM 1.27 IN 17.28  
WTR YR 1985 TOTAL 48675.55 MEAN 133 MAX 3520 MIN .31 CFSM 1.02 IN 13.82



LOCATION.--Lat 34°18'16", long 88°22'16", in NE¼ 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.

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

REMARKS.--Estimated daily discharges: Dec. 2-12, Jan. 21, 22, May 15-21 and May 24-30. Records good except those for periods of estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,570 ft<sup>3</sup>/s, Apr. 5, 1983, gage height, 11.03 ft; minimum, 3.1 ft<sup>3</sup>/s, Oct. 5, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 384 ft<sup>3</sup>/s, Feb. 11, gage height, 10.32 ft; minimum, 6.9 ft<sup>3</sup>/s, Sept. 19, minimum gage height, 4.29 ft, Oct. 5.

| DAY         | OCT   | NOV     | DEC       | JAN     | FEB     | MAR       | APR      | MAY  | JUN  | JUL   | AUG   | SEP   |
|-------------|-------|---------|-----------|---------|---------|-----------|----------|------|------|-------|-------|-------|
| 1           | 9.5   | 33      | 31        | 30      | 58      | 33        | 34       | 89   | 14   | 12    | 28    | 9.7   |
| 2           | 9.4   | 60      | 55        | 25      | 38      | 31        | 29       | 91   | 13   | 12    | 19    | 8.8   |
| 3           | 9.4   | 27      | 39        | 39      | 30      | 29        | 27       | 42   | 13   | 14    | 15    | 13    |
| 4           | 9.4   | 24      | 30        | 39      | 28      | 32        | 25       | 32   | 12   | 15    | 13    | 18    |
| 5           | 9.2   | 22      | 36        | 31      | 100     | 33        | 29       | 27   | 12   | 13    | 13    | 15    |
| 6           | 9.5   | 20      | 36        | 30      | 70      | 28        | 28       | 24   | 11   | 13    | 14    | 13    |
| 7           | 17    | 19      | 28        | 30      | 50      | 27        | 24       | 23   | 11   | 12    | 14    | 11    |
| 8           | 68    | 19      | 29        | 29      | 41      | 27        | 23       | 113  | 12   | 11    | 13    | 11    |
| 9           | 19    | 19      | 28        | 27      | 40      | 26        | 22       | 52   | 11   | 11    | 12    | 11    |
| 10          | 16    | 33      | 27        | 39      | 63      | 25        | 22       | 44   | 25   | 10    | 12    | 9.4   |
| 11          | 16    | 24      | 26        | 30      | 207     | 25        | 21       | 35   | 35   | 10    | 11    | 9     |
| 12          | 15    | 20      | 26        | 27      | 91      | 22        | 23       | 28   | 27   | 9.5   | 11    | 8.6   |
| 13          | 14    | 20      | 27        | 26      | 63      | 22        | 23       | 24   | 18   | 9.8   | 10    | 8.6   |
| 14          | 14    | 19      | 27        | 27      | 57      | 21        | 30       | 22   | 17   | 10    | 10    | 8.4   |
| 15          | 14    | 48      | 25        | 25      | 49      | 21        | 49       | 20   | 16   | 10    | 11    | 8.0   |
| 16          | 14    | 41      | 25        | 55      | 44      | 21        | 31       | 18   | 16   | 19    | 64    | 8.2   |
| 17          | 44    | 25      | 31        | 62      | 42      | 21        | 25       | 17   | 17   | 14    | 35    | 8.0   |
| 18          | 17    | 73      | 29        | 33      | 40      | 20        | 22       | 16   | 48   | 12    | 15    | 8.0   |
| 19          | 22    | 86      | 29        | 28      | 48      | 20        | 21       | 15   | 23   | 11    | 11    | 7.8   |
| 20          | 20    | 37      | 32        | 25      | 48      | 20        | 20       | 14   | 18   | 10    | 9.8   | 8.0   |
| 21          | 78    | 30      | 29        | 42      | 37      | 48        | 20       | 18   | 16   | 9.8   | 11    | 7.9   |
| 22          | 126   | 27      | 30        | 26      | 34      | 99        | 19       | 29   | 15   | 11    | 11    | 8.4   |
| 23          | 100   | 26      | 26        | 26      | 36      | 36        | 27       | 21   | 14   | 11    | 12    | 14    |
| 24          | 40    | 25      | 27        | 25      | 79      | 30        | 159      | 18   | 13   | 20    | 16    | 13    |
| 25          | 30    | 24      | 32        | 23      | 51      | 26        | 45       | 17   | 13   | 14    | 22    | 11    |
| 26          | 26    | 23      | 26        | 20      | 43      | 24        | 36       | 15   | 12   | 32    | 17    | 12    |
| 27          | 24    | 105     | 25        | 22      | 36      | 37        | 36       | 14   | 15   | 51    | 14    | 10    |
| 28          | 26    | 83      | 25        | 43      | 33      | 33        | 30       | 13   | 16   | 21    | 15    | 9.9   |
| 29          | 23    | 39      | 25        | 25      | ---     | 27        | 25       | 19   | 14   | 19    | 12    | 11    |
| 30          | 21    | 35      | 25        | 29      | ---     | 25        | 23       | 15   | 13   | 15    | 11    | 13    |
| 31          | 20    | ---     | 26        | 76      | ---     | 73        | ---      | 15   | ---  | 13    | 11    | ---   |
| TOTAL       | 880.4 | 1086    | 912       | 1014    | 1556    | 962       | 948      | 940  | 510  | 455.1 | 492.8 | 312.7 |
| MEAN        | 28.4  | 36.2    | 29.4      | 32.7    | 55.6    | 31.0      | 31.6     | 30.3 | 17.0 | 14.7  | 15.9  | 10.4  |
| MAX         | 126   | 105     | 55        | 76      | 207     | 99        | 159      | 113  | 48   | 51    | 64    | 18    |
| MIN         | 9.2   | 19      | 25        | 20      | 28      | 20        | 19       | 13   | 11   | 9.5   | 9.8   | 7.8   |
| CFSM        | 1.49  | 1.90    | 1.54      | 1.71    | 2.91    | 1.62      | 1.65     | 1.59 | .89  | .77   | .83   | .55   |
| IN.         | 1.71  | 2.12    | 1.78      | 1.97    | 3.03    | 1.87      | 1.85     | 1.83 | .99  | .89   | .96   | .61   |
| CAL YR 1984 | TOTAL | 13860.2 | MEAN 37.9 | MAX 296 | MIN 9.2 | CFSM 1.98 | IN 26.99 |      |      |       |       |       |
| WTR YR 1985 | TOTAL | 10069.0 | MEAN 27.6 | MAX 207 | MIN 7.8 | CFSM 1.45 | IN 19.61 |      |      |       |       |       |

## 02431000 TOBIGBEE RIVER NEAR FULTON, MS

LOCATION.--Lat 34°15'53", long 88°26'42", in SE¼ 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>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1928 to current year. 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. Prior to October 1966, published as East Fork Tombigbee River near Fulton.

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

GAGE.--Water-stage recorder. Datum of gage is 242.93 ft above National Geodetic Vertical Datum of 1929. 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. Telemeter at station.

AVERAGE DISCHARGE.--57 years, 964 ft<sup>3</sup>/s, 21.39 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 82,200 ft<sup>3</sup>/s, Mar. 22, 1955, gage height, 25.75 ft, from rating curve extended above 48,000 ft<sup>3</sup>/s on basis of estimate of flow made by indirect methods; minimum observed, 11 ft<sup>3</sup>/s, Nov. 15, 1971 (temporary regulation); minimum unregulated, 12 ft<sup>3</sup>/s, Aug. 31 to Sept. 2, 1943; minimum gage height, 0.87 ft, Aug. 12, 1930.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge 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) |
|---------|------|--------------------------------|------------------|------|------|--------------------------------|------------------|
| Feb. 12 | 0200 | *6,590                         | *17.44           |      |      |                                |                  |

Minimum daily discharge, 31 ft<sup>3</sup>/s, Oct. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN  | JUL  | AUG  | SEP  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| 1     | 38    | 113   | 1580  | 379   | 1530  | 936   | 1410  | 1290  | 71   | 149  | 167  | 121  |
| 2     | 37    | 230   | 1170  | 458   | 1370  | 777   | 1040  | 2950  | 77   | 125  | 161  | 114  |
| 3     | 36    | 395   | 1090  | 402   | 1180  | 665   | 831   | 2350  | 71   | 127  | 151  | 110  |
| 4     | 36    | 248   | 855   | 526   | 1000  | 595   | 642   | 2030  | 65   | 194  | 144  | 125  |
| 5     | 34    | 182   | 664   | 668   | 1050  | 617   | 544   | 1500  | 99   | 243  | 141  | 164  |
| 6     | 31    | 277   | 689   | 593   | 1810  | 602   | 964   | 973   | 175  | 248  | 141  | 195  |
| 7     | 41    | 205   | 685   | 590   | 2460  | 518   | 839   | 611   | 149  | 220  | 154  | 169  |
| 8     | 179   | 163   | 555   | 552   | 2210  | 483   | 721   | 1240  | 113  | 213  | 138  | 156  |
| 9     | 450   | 92    | 524   | 498   | 1700  | 461   | 550   | 1480  | 126  | 206  | 128  | 271  |
| 10    | 286   | 134   | 495   | 468   | 1420  | 429   | 433   | 1240  | 159  | 198  | 122  | 249  |
| 11    | 158   | 616   | 453   | 714   | 3240  | 401   | 386   | 1050  | 160  | 192  | 119  | 183  |
| 12    | 102   | 372   | 411   | 591   | 6110  | 393   | 354   | 775   | 169  | 197  | 117  | 168  |
| 13    | 104   | 246   | 395   | 510   | 4830  | 388   | 335   | 531   | 158  | 188  | 114  | 161  |
| 14    | 76    | 205   | 370   | 466   | 3260  | 370   | 328   | 407   | 105  | 187  | 120  | 156  |
| 15    | 69    | 203   | 348   | 437   | 2240  | 354   | 551   | 323   | 83   | 187  | 133  | 153  |
| 16    | 66    | 416   | 341   | 401   | 1530  | 338   | 750   | 265   | 78   | 250  | 154  | 151  |
| 17    | 70    | 498   | 339   | 1330  | 1120  | 330   | 593   | 220   | 98   | 429  | 946  | 149  |
| 18    | 120   | 508   | 361   | 1600  | 934   | 315   | 456   | 192   | 108  | 380  | 775  | 149  |
| 19    | 225   | 2510  | 361   | 1370  | 851   | 292   | 375   | 183   | 212  | 254  | 481  | 149  |
| 20    | 72    | 2850  | 428   | 1110  | 895   | 286   | 316   | 183   | 140  | 193  | 263  | 148  |
| 21    | 116   | 2370  | 544   | 754   | 883   | 316   | 271   | 171   | 99   | 155  | 213  | 148  |
| 22    | 514   | 1670  | 561   | 561   | 806   | 751   | 241   | 186   | 102  | 139  | 216  | 148  |
| 23    | 960   | 1030  | 615   | 541   | 714   | 957   | 222   | 235   | 84   | 148  | 195  | 155  |
| 24    | 2600  | 688   | 490   | 639   | 1810  | 951   | 1200  | 207   | 87   | 166  | 189  | 164  |
| 25    | 1270  | 485   | 504   | 645   | 2730  | 808   | 2010  | 162   | 78   | 157  | 266  | 163  |
| 26    | 984   | 392   | 591   | 527   | 2100  | 572   | 1750  | 141   | 93   | 190  | 366  | 163  |
| 27    | 627   | 478   | 482   | 432   | 1640  | 453   | 1420  | 127   | 244  | 473  | 279  | 159  |
| 28    | 352   | 1720  | 423   | 658   | 1200  | 506   | 1200  | 83    | 577  | 445  | 211  | 157  |
| 29    | 228   | 2060  | 401   | 995   | ---   | 517   | 974   | 76    | 318  | 276  | 168  | 156  |
| 30    | 171   | 1950  | 378   | 888   | ---   | 447   | 671   | 129   | 200  | 209  | 145  | 160  |
| 31    | 126   | ---   | 364   | 971   | ---   | 906   | ---   | 75    | ---  | 163  | 128  | ---  |
| TOTAL | 10178 | 23306 | 17467 | 21274 | 52623 | 16734 | 22377 | 21385 | 4298 | 6901 | 7045 | 4814 |
| MEAN  | 328   | 777   | 563   | 686   | 1879  | 540   | 746   | 690   | 143  | 223  | 227  | 160  |
| MAX   | 2600  | 2850  | 1580  | 1600  | 6110  | 957   | 2010  | 2950  | 577  | 473  | 946  | 271  |
| MIN   | 31    | 92    | 339   | 379   | 714   | 286   | 222   | 75    | 65   | 125  | 114  | 110  |
| CFSM  | .54   | 1.27  | .92   | 1.12  | 3.07  | .88   | 1.22  | 1.13  | .23  | .36  | .37  | .26  |
| IN.   | .62   | 1.42  | 1.06  | 1.29  | 3.20  | 1.02  | 1.36  | 1.30  | .26  | .42  | .43  | .29  |

|             |       |        |          |          |        |           |          |
|-------------|-------|--------|----------|----------|--------|-----------|----------|
| CAL YR 1984 | TOTAL | 292333 | MEAN 799 | MAX 9470 | MIN 31 | CFSM 1.31 | IN 17.77 |
| WTR YR 1985 | TOTAL | 208402 | MEAN 571 | MAX 6110 | MIN 31 | CFSM .93  | IN 12.67 |

## MOBILE RIVER BASIN

02431000 TOMBIGBEE RIVER NEAR FULTON, MS--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT   | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1     | 5.15  | 6.25   | 14.30  | 8.82   | 14.14  | 12.09  | 13.85  | 12.68  | 5.89   | 6.86   | 6.92   | 6.33   |
| 2     | 5.12  | 7.46   | 13.09  | 9.37   | 13.70  | 11.30  | 12.62  | 16.27  | 5.99   | 6.57   | 6.84   | 6.26   |
| 3     | 5.09  | 8.85   | 12.79  | 8.98   | 13.05  | 10.70  | 11.60  | 15.68  | 5.89   | 6.59   | 6.73   | 6.21   |
| 4     | 5.09  | 7.67   | 11.68  | 9.77   | 12.27  | 10.31  | 10.59  | 15.22  | 5.79   | 7.34   | 6.65   | 6.42   |
| 5     | 5.05  | 7.04   | 10.69  | 10.64  | 12.47  | 10.43  | 10.01  | 14.11  | 6.30   | 7.81   | 6.60   | 6.89   |
| 6     | 4.98  | 8.09   | 10.82  | 10.20  | 14.75  | 10.35  | 12.21  | 12.28  | 7.25   | 7.85   | 6.60   | 7.24   |
| 7     | 5.20  | 7.43   | 10.81  | 10.18  | 15.80  | 9.85   | 11.64  | 10.42  | 6.95   | 7.59   | 6.74   | 6.99   |
| 8     | 6.90  | 6.98   | 10.06  | 9.95   | 15.49  | 9.62   | 11.03  | 13.17  | 6.51   | 7.52   | 6.55   | 6.85   |
| 9     | 9.38  | 6.10   | 9.87   | 9.60   | 14.57  | 9.48   | 10.04  | 14.09  | 6.66   | 7.44   | 6.42   | 7.89   |
| 10    | 8.13  | 6.44   | 9.69   | 9.40   | 13.88  | 9.25   | 9.28   | 13.41  | 7.06   | 7.36   | 6.35   | 7.80   |
| 11    | 6.89  | 10.30  | 9.42   | 10.86  | 15.96  | 9.06   | 8.95   | 12.67  | 7.06   | 7.30   | 6.30   | 7.19   |
| 12    | 6.19  | 8.70   | 9.13   | 10.16  | 17.34  | 9.01   | 8.71   | 11.35  | 7.15   | 7.34   | 6.26   | 7.05   |
| 13    | 6.27  | 7.69   | 9.02   | 9.66   | 17.06  | 8.97   | 8.57   | 9.96   | 7.03   | 7.25   | 6.23   | 6.98   |
| 14    | 5.85  | 7.31   | 8.83   | 9.37   | 16.47  | 8.84   | 8.51   | 9.14   | 6.37   | 7.23   | 6.29   | 6.94   |
| 15    | 5.74  | 7.30   | 8.66   | 9.17   | 15.49  | 8.71   | 10.00  | 8.52   | 6.05   | 7.23   | 6.45   | 6.92   |
| 16    | 5.69  | 9.02   | 8.60   | 8.90   | 14.16  | 8.59   | 11.18  | 8.04   | 5.98   | 7.81   | 6.68   | 6.91   |
| 17    | 5.25  | 9.61   | 8.58   | 13.37  | 12.88  | 8.53   | 10.30  | 7.64   | 6.26   | 9.22   | 11.86  | 6.90   |
| 18    | ---   | 9.66   | 8.75   | 14.33  | 12.02  | 8.41   | 9.44   | 7.36   | 6.39   | 8.86   | 11.09  | 6.92   |
| 19    | ---   | 15.40  | 8.74   | 13.73  | 11.62  | 8.22   | 8.87   | 7.28   | 7.57   | 7.83   | 9.37   | 6.93   |
| 20    | ---   | 16.18  | 9.20   | 12.77  | 11.84  | 8.17   | 8.42   | 7.28   | 6.78   | 7.26   | 7.74   | 6.94   |
| 21    | 6.32  | 15.69  | 9.98   | 11.03  | 11.79  | 8.41   | 8.04   | 7.15   | 6.27   | 6.84   | 7.28   | 6.95   |
| 22    | ---   | 14.49  | 10.07  | 9.94   | 11.41  | 11.10  | 7.77   | 7.31   | 6.31   | 6.66   | 7.31   | 6.96   |
| 23    | ---   | 12.44  | 10.39  | 9.81   | 10.93  | 12.22  | 7.60   | 7.80   | 6.04   | 6.75   | 7.10   | 7.06   |
| 24    | ---   | 10.76  | 9.62   | 10.39  | 14.03  | 12.19  | 12.70  | 7.53   | 6.08   | 6.95   | 7.03   | 7.18   |
| 25    | 13.43 | 9.56   | 9.70   | 10.42  | 16.06  | 11.48  | 15.19  | 7.07   | 5.94   | 6.83   | 7.73   | 7.18   |
| 26    | 12.23 | 8.93   | 10.24  | 9.71   | 15.33  | 10.17  | 14.70  | 6.82   | 6.16   | 7.16   | 8.55   | 7.20   |
| 27    | 10.36 | 9.44   | 9.55   | 9.08   | 14.44  | 9.42   | 13.92  | 6.67   | 7.81   | 9.45   | 7.87   | 7.16   |
| 28    | 8.56  | 14.51  | 9.15   | 10.38  | 13.20  | 9.77   | 13.27  | 6.03   | 10.23  | 9.26   | 7.27   | 7.16   |
| 29    | 7.52  | 15.27  | 8.99   | 12.21  | ---    | 9.84   | 12.29  | 5.93   | 8.45   | 7.98   | 6.84   | 7.16   |
| 30    | 6.95  | 15.09  | 8.82   | 11.70  | ---    | 9.38   | 10.75  | 6.71   | 7.41   | 7.36   | 6.59   | 7.22   |
| 31    | 6.41  | ---    | 8.71   | 12.11  | ---    | 11.61  | ---    | 5.92   | ---    | 6.88   | 6.41   | ---    |
| TOTAL | ---   | 299.66 | 307.95 | 326.01 | 392.15 | 305.48 | 322.05 | 301.51 | 201.63 | 232.38 | 224.65 | 209.79 |
| MEAN  | ---   | 9.99   | 9.93   | 10.52  | 14.01  | 9.85   | 10.74  | 9.73   | 6.72   | 7.50   | 7.25   | 6.99   |
| MAX   | ---   | 16.18  | 14.30  | 14.33  | 17.34  | 12.22  | 15.19  | 16.27  | 10.23  | 9.45   | 11.86  | 7.89   |
| MIN   | ---   | 6.10   | 8.58   | 8.82   | 10.93  | 8.17   | 7.60   | 5.92   | 5.79   | 6.57   | 6.23   | 6.21   |

## MOBILE RIVER BASIN

02431000 TOMBIGBEE RIVER NEAR FULTON, MS--Continued

## WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(NTU) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) |
|--------------|------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|----------------------------------------------|------------------------------|-------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| NOV<br>19... | 1555 | 3520                                            | 121                                               | 6.9                            | 12.5                        | 220                                          | 190                          | 8.0                                 | 75                                                             | 5.1                                                            |
| FEB<br>19... | 0915 | 834                                             | 93                                                | 6.5                            | 7.0                         | 30                                           | 20                           | 11.2                                | 92                                                             | 2.8                                                            |
| JUN<br>04... | 1300 | 73                                              | 138                                               | 7.4                            | 31.5                        | 15                                           | 6.0                          | 8.0                                 | 109                                                            | 2.6                                                            |
| AUG<br>01... | 1145 | 157                                             | 99                                                | 7.2                            | 29.5                        | 35                                           | 25                           | 7.0                                 | 92                                                             | 1.3                                                            |

| DATE         | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | HARD-<br>NESS<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CAC03) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LITY<br>LAB<br>(MG/L<br>AS<br>CAC03) |
|--------------|----------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|-----------------------------------------------|
| NOV<br>19... | --                                                             | 58                                     | 4                                                      | 21                                           | 1.3                                                  | 1.5                                          | 5                 | .0                                      | 3.2                                                 | 54                                            |
| FEB<br>19... | K52                                                            | 38                                     | 10                                                     | 13                                           | 1.4                                                  | 2.2                                          | 11                | .2                                      | 1.2                                                 | 28                                            |
| JUN<br>04... | 100                                                            | 63                                     | 7                                                      | 21                                           | 2.6                                                  | 4.2                                          | 12                | .2                                      | 1.9                                                 | 56                                            |
| AUG<br>01... | 100                                                            | 41                                     | 8                                                      | 13                                           | 2.1                                                  | 2.8                                          | 12                | .2                                      | 1.9                                                 | 33                                            |

| DATE         | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTI-<br>TUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | NITRO-<br>GEN,<br>NITRATE<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N) |
|--------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| NOV<br>19... | 9.1                                           | 3.2                                                 | .10                                                | 4.2                                               | 84                                                                 | 76                                                                  | .11                                                 | 798                                               | .24                                                  | .060                                                 |
| FEB<br>19... | 13                                            | 3.8                                                 | <.10                                               | 6.5                                               | 70                                                                 | 58                                                                  | .10                                                 | 158                                               | .18                                                  | .020                                                 |
| JUN<br>04... | 10                                            | 3.5                                                 | .10                                                | 8.7                                               | 96                                                                 | 86                                                                  | .13                                                 | 19                                                | --                                                   | <.010                                                |
| AUG<br>01... | 8.4                                           | 3.6                                                 | <.10                                               | 6.5                                               | 66                                                                 | 59                                                                  | .09                                                 | 28                                                | --                                                   | <.010                                                |

| DATE         | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |
|--------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|------------------------------------------------------|--------------------------------------------|------------------------------------------------------|
| NOV<br>19... | .30                                                  | .290                                                 | .61                                                  | .90                                                                 | 1.2                                       | .150                                        | <.010                                                | 350                                        | 160                                                  |
| FEB<br>19... | .20                                                  | <.010                                                | --                                                   | 1.1                                                                 | 1.3                                       | .010                                        | <.010                                                | 96                                         | 87                                                   |
| JUN<br>04... | <.10                                                 | .060                                                 | .24                                                  | .30                                                                 | --                                        | <.010                                       | <.010                                                | 160                                        | 500                                                  |
| AUG<br>01... | <.10                                                 | <.010                                                | --                                                   | .40                                                                 | --                                        | <.010                                       | <.010                                                | 510                                        | 60                                                   |



## MOBILE RIVER BASIN

02432500 BULL MOUNTAIN CREEK AT TREMONT, MS

LOCATION.--Lat 34°14'20", long 88°16'15", in NE¼SW¼ sec.5, T.10 S., R.10 E., Chickasaw Meridian, Itawamba County, Hydrologic Unit 03160101, in left bank on 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, 3.2 mi upstream from Chubby 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 National Geodetic Vertical Datum of 1929 (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 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, 4.6 ft<sup>3</sup>/s, Sept. 13, 1954, gage height, 1.62 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 gage height and discharge not determined; minimum discharge, 15 ft<sup>3</sup>/s, part of each day, Sept. 20-22; gage height, 2.38 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT | NOV | DEC | JAN | FEB | MAR  | APR | MAY | JUN  | JUL  | AUG | SEP  |
|-------|-----|-----|-----|-----|-----|------|-----|-----|------|------|-----|------|
| 1     | 16  | 92  | --- | 116 | --- | 181  | --- | --- | 47   | 44   | 38  | 29   |
| 2     | 16  | 132 | 200 | 126 | --- | 176  | 169 | --- | 44   | 40   | 35  | 26   |
| 3     | 17  | 141 | --- | 113 | --- | 166  | 150 | --- | 39   | 45   | 50  | 23   |
| 4     | 17  | 114 | --- | 130 | 195 | 159  | 139 | --- | 36   | 53   | 38  | 36   |
| 5     | 17  | 102 | 182 | 124 | --- | 164  | 130 | --- | 31   | 84   | 32  | 42   |
| 6     | 17  | 91  | 190 | 115 | --- | 151  | 147 | --- | 32   | 63   | 29  | 33   |
| 7     | 18  | 82  | 168 | 112 | --- | 142  | 129 | 189 | 28   | 54   | 47  | 31   |
| 8     | 38  | 76  | 156 | 109 | --- | 138  | 116 | --- | 32   | 42   | 47  | 27   |
| 9     | 82  | 72  | 149 | 104 | --- | 135  | 108 | --- | 46   | 35   | 38  | 29   |
| 10    | 42  | 88  | 143 | 108 | --- | 129  | 104 | --- | 49   | 31   | 29  | 27   |
| 11    | 38  | 152 | 136 | 128 | --- | 126  | 99  | --- | 159  | 29   | 25  | 24   |
| 12    | 33  | 109 | 129 | 111 | --- | 123  | 95  | 179 | 133  | 67   | 22  | 22   |
| 13    | 27  | 94  | 126 | 104 | --- | 117  | 93  | 157 | 87   | 44   | 20  | 20   |
| 14    | 27  | 86  | 122 | 103 | --- | 115  | 97  | 141 | 62   | 32   | 19  | 18   |
| 15    | 27  | 84  | 115 | 102 | --- | 112  | 137 | 126 | 52   | 28   | 20  | 17   |
| 16    | 27  | 136 | 111 | 101 | --- | 108  | 116 | 112 | 47   | 81   | 65  | 18   |
| 17    | 122 | 117 | 111 | --- | --- | 107  | 100 | 103 | 45   | 124  | --- | 16   |
| 18    | 106 | 109 | 127 | --- | --- | 102  | 90  | 98  | 103  | 74   | --- | 16   |
| 19    | 58  | --- | 118 | 193 | --- | 99   | 84  | 92  | 133  | 51   | 115 | 16   |
| 20    | 77  | 174 | 120 | 168 | --- | 98   | 80  | 85  | 87   | 41   | 82  | 15   |
| 21    | 186 | 138 | 122 | 133 | --- | 103  | 75  | 81  | 66   | 34   | 67  | 15   |
| 22    | --- | 120 | 118 | 133 | 199 | 195  | 70  | 80  | 55   | 29   | 63  | 15   |
| 23    | --- | 110 | 113 | 141 | 187 | 165  | 69  | 85  | 49   | 29   | 48  | 17   |
| 24    | --- | 103 | 107 | 136 | --- | 146  | --- | 77  | 44   | 30   | 43  | 60   |
| 25    | 167 | 97  | 119 | 132 | --- | 133  | --- | 70  | 44   | 29   | 56  | 55   |
| 26    | 131 | 92  | 121 | 121 | --- | 121  | 174 | 64  | 40   | 31   | 78  | 37   |
| 27    | 107 | 115 | 112 | 112 | --- | 120  | 148 | 58  | 65   | 59   | 60  | 45   |
| 28    | 115 | --- | 107 | 136 | 192 | 141  | 132 | 52  | 81   | 82   | 47  | 35   |
| 29    | 167 | --- | 107 | 144 | --- | 132  | 116 | 53  | 61   | 76   | 42  | 28   |
| 30    | 125 | --- | 105 | 131 | --- | 122  | 102 | 58  | 51   | 63   | 36  | 26   |
| 31    | 103 | --- | 105 | 155 | --- | 192  | --- | 51  | ---  | 46   | 32  | ---  |
| TOTAL | --- | --- | --- | --- | --- | 4218 | --- | --- | 1848 | 1570 | --- | 818  |
| MEAN  | --- | --- | --- | --- | --- | 136  | --- | --- | 61.6 | 50.6 | --- | 27.3 |
| MAX   | --- | --- | --- | --- | --- | 195  | --- | --- | 159  | 124  | --- | 60   |
| MIN   | --- | --- | --- | --- | --- | 98   | --- | --- | 28   | 28   | --- | 15   |
| CFSM  | --- | --- | --- | --- | --- | 1.00 | --- | --- | .45  | .37  | --- | .20  |
| IN.   | --- | --- | --- | --- | --- | 1.15 | --- | --- | .51  | .43  | --- | .22  |

02433000 BULL MOUNTAIN CREEK NEAR SMITHVILLE, MS

LOCATION.--Lat 34°05'18", long 88°23'26", in SW¼SE¼ sec.30, T.11 S., R.9 E., Chickasaw Meridian, Itawamba County, Hydrologic Unit 03160101, on right bank at downstream side of old crossing 200 ft upstream from bridge on State Highway 25, 0.8 mi upstream from Mississippian Railway bridge, 1.1 mi north of Smithville, and 3.5 mi upstream from mouth.

DRAINAGE AREA.--336 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1940 to September 1984, October 1984 to September 1985 (high water records only).

REVISED RECORDS.--WSP 1504: 1948. WRD Miss. 1972: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 234.81 ft above National Geodetic Vertical Datum of 1929 (levels by U. S. Army Corps of Engineers). Prior to Oct. 15, 1948, nonrecording gage at same site and datum.

REMARKS.--Daily discharges below 3,000 ft<sup>3</sup>/s not determined. No daily discharges above 3,000 ft<sup>3</sup>/s in 1985 water year.

AVERAGE DISCHARGE.--44 years (water years 1940-84), 574 ft<sup>3</sup>/s, 23.21 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44,400 ft<sup>3</sup>/s Mar. 16, 1973, gage height, 18.26 ft; minimum, 19 ft<sup>3</sup>/s Aug. 28 to Sept. 3, 1943 (period of doubtful gage-height record), and Sept. 10, 13, 14, 15, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1926 reached a stage of 15.7 ft, from floodmark, discharge about 29,000 ft<sup>3</sup>/s, from information by Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base 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) |
|------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| May  | 3    | 0530                              | <3,000              |      |      |                                   | 10.23               |

## MOBILE RIVER BASIN

02433500 TOMBIGBEE RIVER AT BIGBEE, MS

LOCATION.--Lat 34°00'42", long 88°30'50", in SW¼NE¼ 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>.

PERIOD OF RECORD.--October 1944 to September 1954, October 1963 to current year. 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 1504: 1946, 1948. WRD Miss. 1972: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 190.00 ft above National Geodetic Vertical Datum of 1929 (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: May 29 to June 7 and June 15-21. Records good. Some regulation at low flow by Tennessee-Tombigbee Waterway. Telemeter at station.

AVERAGE DISCHARGE.--32 years, 2,126 ft<sup>3</sup>/s, 23.55 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 112,000 ft<sup>3</sup>/s, Mar. 17, 1973, gage height, 27.64 ft; minimum, 29 ft<sup>3</sup>/s, Sept. 15, 1954.

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 (ft <sup>3</sup> /s) | Gage Height (ft) | Date                                       | Time | Discharge (ft <sup>3</sup> /s) | Gage Height (ft) |
|-------|------|--------------------------------|------------------|--------------------------------------------|------|--------------------------------|------------------|
| May 3 | 1330 | *13,400                        | *15.07           | No other peak greater than base discharge. |      |                                |                  |

Minimum discharge, 86 ft<sup>3</sup>/s, Oct. 7, gage height, 2.35 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY         | OCT   | NOV    | DEC   | JAN   | FEB    | MAR   | APR   | MAY   | JUN  | JUL   | AUG   | SEP   |
|-------------|-------|--------|-------|-------|--------|-------|-------|-------|------|-------|-------|-------|
| 1           | 109   | 768    | 3680  | 619   | 3360   | 2150  | 1830  | 2670  | 165  | 396   | 254   | 150   |
| 2           | 120   | 1110   | 3510  | 644   | 2530   | 1640  | 1870  | 7100  | 153  | 351   | 300   | 136   |
| 3           | 109   | 499    | 3200  | 707   | 3070   | 1320  | 1570  | 11600 | 160  | 305   | 293   | 142   |
| 4           | 68    | 511    | 3100  | 738   | 3200   | 1180  | 1280  | 8010  | 142  | 295   | 233   | 154   |
| 5           | 63    | 680    | 2080  | 894   | 2570   | 990   | 1020  | 5310  | 136  | 398   | 215   | 263   |
| 6           | 56    | 1810   | 2010  | 931   | 4530   | 984   | 871   | 3120  | 420  | 422   | 239   | 274   |
| 7           | 54    | 568    | 1450  | 861   | 4510   | 909   | 1120  | 1880  | 259  | 419   | 266   | 267   |
| 8           | 277   | 517    | 1690  | 851   | 4070   | 821   | 1100  | 2520  | 230  | 385   | 235   | 227   |
| 9           | 373   | 688    | 1390  | 800   | 4050   | 781   | 928   | 3390  | 192  | 370   | 205   | 246   |
| 10          | 898   | 408    | 1480  | 752   | 3820   | 745   | 737   | 3040  | 204  | 357   | 184   | 330   |
| 11          | 526   | 781    | 1040  | 866   | 8350   | 699   | 609   | 2420  | 284  | 297   | 169   | 308   |
| 12          | 484   | 1110   | 1100  | 951   | 10400  | 672   | 559   | 1850  | 685  | 293   | 159   | 229   |
| 13          | 151   | 453    | 1090  | 832   | 8800   | 649   | 514   | 1500  | 292  | 292   | 154   | 206   |
| 14          | 113   | 302    | 1110  | 753   | 8860   | 627   | 493   | 1050  | 240  | 286   | 160   | 194   |
| 15          | 259   | 270    | 898   | 705   | 6930   | 594   | 552   | 662   | 200  | 280   | 170   | 184   |
| 16          | 97    | 345    | 725   | 833   | 4990   | 571   | 962   | 923   | 190  | 286   | 318   | 180   |
| 17          | 628   | 551    | 846   | 3420  | 3530   | 547   | 930   | 461   | 220  | 339   | 2350  | 179   |
| 18          | 680   | 634    | 545   | 2000  | 2420   | 533   | 746   | 384   | 236  | 525   | 1390  | 179   |
| 19          | 669   | 2560   | 564   | 2250  | 1710   | 507   | 673   | 345   | 800  | 484   | 923   | 179   |
| 20          | 528   | 2710   | 556   | 1990  | 2000   | 482   | 494   | 328   | 335  | 355   | 603   | 186   |
| 21          | 1090  | 3060   | 653   | 1690  | 1730   | 500   | 440   | 358   | 230  | 284   | 409   | 180   |
| 22          | 2140  | 3270   | 749   | 1260  | 1720   | 2240  | 487   | 447   | 182  | 236   | 286   | 180   |
| 23          | 4230  | 3030   | 784   | 938   | 1380   | 1670  | 334   | 512   | 166  | 226   | 275   | 200   |
| 24          | 3480  | 2230   | 797   | 881   | 3640   | 1410  | 3130  | 775   | 160  | 241   | 256   | 503   |
| 25          | 2830  | 1550   | 720   | 926   | 3540   | 1270  | 2900  | 554   | 235  | 271   | 335   | 246   |
| 26          | 2280  | 1020   | 762   | 890   | 3920   | 1100  | 2720  | 291   | 234  | 275   | 494   | 224   |
| 27          | 1940  | 1380   | 812   | 773   | 3270   | 858   | 2670  | 303   | 271  | 866   | 492   | 217   |
| 28          | 1640  | 4150   | 718   | 786   | 2770   | 857   | 2310  | 236   | 527  | 647   | 362   | 206   |
| 29          | 1280  | 3420   | 664   | 1130  | ---    | 1220  | 1860  | 185   | 767  | 708   | 277   | 203   |
| 30          | 777   | 4010   | 640   | 1280  | ---    | 803   | 1480  | 170   | 529  | 401   | 217   | 203   |
| 31          | 554   | ---    | 611   | 1410  | ---    | 1780  | ---   | 275   | ---  | 308   | 178   | ---   |
| TOTAL       | 28503 | 44395  | 39974 | 34361 | 115670 | 31109 | 37189 | 62669 | 8844 | 11598 | 12401 | 6575  |
| MEAN        | 919   | 1480   | 1289  | 1108  | 4131   | 1004  | 1240  | 2022  | 295  | 374   | 400   | 219   |
| MAX         | 4230  | 4150   | 3680  | 3420  | 10400  | 2240  | 3130  | 11600 | 800  | 866   | 2350  | 503   |
| MIN         | 54    | 270    | 545   | 619   | 1380   | 482   | 334   | 170   | 136  | 226   | 154   | 136   |
| CFSM        | .75   | 1.21   | 1.05  | .90   | 3.37   | .82   | 1.01  | 1.65  | .24  | .31   | .33   | .13   |
| IN.         | .86   | 1.35   | 1.21  | 1.04  | 3.51   | .94   | 1.13  | 1.90  | .27  | .35   | .38   | .20   |
| CAL YR 1984 | TOTAL | 719333 | MEAN  | 1965  | MAX    | 24500 | MIN   | 54    | CFSM | 1.60  | IN    | 21.83 |
| WTR YR 1985 | TOTAL | 433288 | MEAN  | 1187  | MAX    | 11600 | MIN   | 54    | CFSM | .97   | IN    | 13.15 |

## 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 National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Sept. 6-30. Records good except for estimated daily discharges, which are poor. Discharge includes flow of Kings Creek. National Weather Service telemeter at station.

AVERAGE DISCHARGE.--15 years, 470 ft<sup>3</sup>/s, 27.39 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,100 ft<sup>3</sup>/s, May 19, 1984, gage height, 27.39 ft; minimum, 1.2 ft<sup>3</sup>/s, Aug. 28, 1984, gage height, 2.47 ft.

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) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Feb. 11 | 1245 | 5,870                             | 19.92               | Apr. 22 | 1330 | *9,570                            | *23.60              |

Minimum discharge, 3.9 ft<sup>3</sup>/s, July 23, gage height, 2.53 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB   | MAR  | APR  | MAY   | JUN   | JUL   | AUG    | SEP    |
|-------|------|------|------|------|-------|------|------|-------|-------|-------|--------|--------|
| 1     | 17   | 84   | 184  | 100  | 834   | 244  | 385  | 4410  | 19    | 18    | 11     | 20     |
| 2     | 16   | 265  | 186  | 89   | 320   | 211  | 240  | 1190  | 17    | 21    | 19     | 23     |
| 3     | 16   | 87   | 206  | 75   | 266   | 178  | 152  | 620   | 17    | 14    | 12     | 36     |
| 4     | 16   | 52   | 133  | 209  | 214   | 171  | 136  | 443   | 17    | 20    | 9.3    | 83     |
| 5     | 17   | 40   | 110  | 154  | 629   | 223  | 174  | 369   | 15    | 47    | 8.5    | 171    |
| 6     | 19   | 32   | 220  | 110  | 1200  | 152  | 303  | 320   | 15    | 18    | 18     | 80     |
| 7     | 44   | 27   | 134  | 114  | 882   | 110  | 170  | 300   | 13    | 14    | 12     | 34     |
| 8     | 271  | 23   | 114  | 119  | 571   | 120  | 135  | 2070  | 15    | 11    | 9.8    | 100    |
| 9     | 184  | 20   | 102  | 93   | 498   | 119  | 123  | 492   | 13    | 9.9   | 9.0    | 590    |
| 10    | 33   | 102  | 91   | 193  | 1450  | 100  | 101  | 322   | 14    | 9.4   | 7.1    | 95     |
| 11    | 21   | 185  | 83   | 200  | 4600  | 98   | 90   | 280   | 16    | 8.9   | 6.3    | 57     |
| 12    | 18   | 61   | 76   | 115  | 1530  | 92   | 83   | 222   | 25    | 8.0   | 6.0    | 39     |
| 13    | 17   | 33   | 71   | 86   | 831   | 84   | 79   | 173   | 15    | 7.4   | 6.2    | 25     |
| 14    | 16   | 25   | 63   | 85   | 638   | 77   | 89   | 155   | 12    | 6.1   | 5.7    | 20     |
| 15    | 16   | 115  | 56   | 75   | 475   | 69   | 299  | 115   | 11    | 7.3   | 12     | 15     |
| 16    | 20   | 252  | 51   | 408  | 365   | 66   | 238  | 96    | 11    | 27    | 541    | 12     |
| 17    | 141  | 69   | 59   | 1570 | 283   | 64   | 145  | 76    | 12    | 23    | 776    | 10     |
| 18    | 48   | 943  | 65   | 409  | 217   | 68   | 134  | 68    | 48    | 10    | 104    | 9.6    |
| 19    | 38   | 2530 | 55   | 261  | 232   | 57   | 116  | 54    | 33    | 7.1   | 47     | 9.3    |
| 20    | 34   | 454  | 125  | 165  | 319   | 58   | 85   | 45    | 18    | 5.8   | 32     | 8.8    |
| 21    | 254  | 312  | 103  | 99   | 224   | 91   | 69   | 49    | 12    | 5.0   | 27     | 8.4    |
| 22    | 920  | 239  | 142  | 131  | 169   | 240  | 57   | 85    | 10    | 6.4   | 23     | 7.9    |
| 23    | 2260 | 137  | 100  | 127  | 182   | 144  | 223  | 54    | 9.6   | 4.6   | 20     | 35     |
| 24    | 483  | 97   | 81   | 132  | 3050  | 109  | 3280 | 39    | 10    | 8.0   | 27     | 20     |
| 25    | 231  | 75   | 90   | 112  | 832   | 94   | 566  | 31    | 13    | 60    | 196    | 14     |
| 26    | 135  | 59   | 84   | 85   | 611   | 86   | 480  | 28    | 43    | 115   | 97     | 11     |
| 27    | 92   | 504  | 70   | 85   | 428   | 112  | 523  | 25    | 226   | 196   | 33     | 8.8    |
| 28    | 69   | 848  | 66   | 451  | 319   | 162  | 585  | 28    | 191   | 37    | 24     | 7.4    |
| 29    | 54   | 270  | 61   | 269  | ---   | 119  | 296  | 55    | 30    | 19    | 21     | 6.6    |
| 30    | 43   | 217  | 57   | 227  | ---   | 96   | 260  | 28    | 19    | 14    | 20     | 20     |
| 31    | 36   | ---  | 64   | 717  | ---   | 1100 | ---  | 22    | ---   | 11    | 19     | ---    |
| TOTAL | 5579 | 8157 | 3102 | 7065 | 22169 | 4714 | 9616 | 12264 | 919.6 | 768.9 | 2158.9 | 1576.8 |
| MEAN  | 180  | 272  | 100  | 228  | 792   | 152  | 321  | 396   | 30.7  | 24.8  | 69.6   | 52.6   |
| MAX   | 2260 | 2530 | 220  | 1570 | 4600  | 1100 | 3280 | 4410  | 226   | 196   | 776    | 590    |
| MIN   | 16   | 20   | 51   | 75   | 169   | 57   | 57   | 22    | 9.6   | 4.6   | 5.7    | 6.6    |
| CFSM  | .77  | 1.17 | .43  | .98  | 3.40  | .65  | 1.38 | 1.70  | .13   | .11   | .30    | .23    |
| IN.   | .89  | 1.30 | .50  | 1.13 | 3.54  | .75  | 1.54 | 1.96  | .15   | .12   | .34    | .25    |

|             |       |          |          |           |         |           |          |
|-------------|-------|----------|----------|-----------|---------|-----------|----------|
| CAL YR 1984 | TOTAL | 114513.3 | MEAN 313 | MAX 10300 | MIN 1.9 | CFSM 1.34 | IN 18.28 |
| WTR YR 1985 | TOTAL | 78090.2  | MEAN 214 | MAX 4600  | MIN 4.6 | CFSM .92  | IN 12.47 |



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

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY         | OCT    | NOV    | DEC        | JAN    | FEB           | MAR    | APR          | MAY    | JUN      | JUL   | AUG   | SEP  |
|-------------|--------|--------|------------|--------|---------------|--------|--------------|--------|----------|-------|-------|------|
| 1           | 2.82   | 3.14   | 3.54       | 3.27   | 6.42          | 3.80   | 4.43         | 16.42  | 2.77     | 2.75  | 2.66  | 2.77 |
| 2           | 2.82   | 3.84   | 3.55       | 3.23   | 4.10          | 3.67   | 3.76         | 8.15   | 2.75     | 2.78  | 2.75  | 2.79 |
| 3           | 2.82   | 3.17   | 3.62       | 3.17   | 3.87          | 3.56   | 3.45         | 5.62   | 2.74     | 2.71  | 2.69  | 2.89 |
| 4           | 2.82   | 3.02   | 3.37       | 3.65   | 3.67          | 3.54   | 3.40         | 4.74   | 2.74     | 2.74  | 2.64  | 3.11 |
| 5           | 2.83   | 2.96   | 3.29       | 3.46   | 5.62          | 3.72   | 3.56         | 4.33   | 2.72     | 2.94  | 2.63  | 3.44 |
| 6           | 2.85   | 2.90   | 3.67       | 3.31   | 8.31          | 3.48   | 4.04         | 4.06   | 2.72     | 2.75  | 2.74  | ---  |
| 7           | 3.02   | 2.87   | 3.38       | 3.33   | 6.87          | 3.34   | 3.51         | 3.97   | 2.70     | 2.70  | 2.68  | ---  |
| 8           | 3.94   | 2.84   | 3.32       | 3.35   | 5.39          | 3.37   | 3.39         | 10.58  | 2.72     | 2.67  | 2.65  | ---  |
| 9           | 3.60   | 2.81   | 3.27       | 3.25   | 5.02          | 3.37   | 3.35         | 4.96   | 2.70     | 2.65  | 2.64  | ---  |
| 10          | 2.95   | 3.20   | 3.23       | 3.61   | 8.31          | 3.30   | 3.26         | 4.07   | 2.71     | 2.64  | 2.60  | ---  |
| 11          | 2.86   | 3.53   | 3.20       | 3.62   | 17.08         | 3.29   | 3.22         | 3.88   | 2.73     | 2.64  | 2.59  | ---  |
| 12          | 2.83   | 3.07   | 3.17       | 3.33   | 9.43          | 3.27   | 3.19         | 3.64   | 2.81     | 2.62  | 2.58  | ---  |
| 13          | 2.82   | 2.93   | 3.14       | 3.22   | 6.65          | 3.22   | 3.17         | 3.47   | 2.72     | 2.61  | 2.59  | ---  |
| 14          | 2.81   | 2.86   | 3.11       | 3.22   | 5.70          | 3.19   | 3.21         | 3.41   | 2.68     | 2.58  | 2.57  | ---  |
| 15          | 2.80   | 3.27   | 3.08       | 3.18   | 4.91          | 3.16   | 4.01         | 3.27   | 2.67     | 2.60  | 2.64  | ---  |
| 16          | 2.82   | 3.84   | 3.06       | 4.49   | 4.33          | 3.14   | 3.74         | 3.20   | 2.66     | 2.79  | 4.86  | ---  |
| 17          | 3.42   | 3.11   | 3.09       | 9.14   | 3.94          | 3.14   | 3.41         | 3.12   | 2.66     | 2.79  | 6.03  | ---  |
| 18          | 3.02   | 5.56   | 3.12       | 4.56   | 3.68          | 3.15   | 3.38         | 3.08   | 2.95     | 2.65  | 3.19  | ---  |
| 19          | 2.97   | 11.84  | 3.07       | 3.84   | 3.74          | 3.11   | 3.31         | 3.01   | 2.87     | 2.60  | 2.95  | ---  |
| 20          | 2.94   | 4.78   | 3.34       | 3.50   | 4.10          | 3.11   | 3.19         | 2.96   | 2.75     | 2.58  | 2.87  | ---  |
| 21          | 3.82   | 4.04   | 3.28       | 3.26   | 3.71          | 3.24   | 3.11         | 2.98   | 2.69     | 2.56  | 2.83  | ---  |
| 22          | 6.77   | 3.74   | 3.41       | 3.39   | 3.52          | 3.77   | 3.07         | 3.14   | 2.66     | 2.58  | 2.80  | ---  |
| 23          | 10.97  | 3.38   | 3.26       | 3.37   | 3.61          | 3.43   | 3.61         | 3.01   | 2.65     | 2.55  | 2.77  | ---  |
| 24          | 4.93   | 3.23   | 3.19       | 3.39   | 13.12         | 3.31   | 13.77        | 2.93   | 2.65     | 2.62  | 2.82  | ---  |
| 25          | 3.71   | 3.14   | 3.23       | 3.32   | 6.65          | 3.25   | 5.35         | 2.88   | 2.69     | 2.96  | 3.53  | ---  |
| 26          | 3.36   | 3.07   | 3.20       | 3.22   | 5.57          | 3.22   | 4.89         | 2.85   | 2.81     | 3.22  | 3.16  | ---  |
| 27          | 3.20   | 5.07   | 3.14       | 3.22   | 4.67          | 3.31   | 5.14         | 2.83   | 3.77     | 3.56  | 2.87  | ---  |
| 28          | 3.11   | 6.54   | 3.12       | 4.79   | 4.11          | 3.49   | 5.44         | 2.83   | 3.58     | 2.89  | 2.81  | ---  |
| 29          | 3.04   | 3.87   | 3.10       | 3.89   | ---           | 3.35   | 3.97         | 3.00   | 2.85     | 2.76  | 2.78  | ---  |
| 30          | 2.98   | 3.66   | 3.08       | 3.71   | ---           | 3.26   | 3.85         | 2.84   | 2.76     | 2.70  | 2.77  | ---  |
| 31          | 2.94   | ---    | 3.11       | 5.73   | ---           | 7.39   | ---          | 2.80   | ---      | 2.66  | 2.76  | ---  |
| TOTAL       | 108.59 | 115.28 | 100.74     | 117.02 | 166.10        | 107.95 | 122.18       | 132.03 | 83.88    | 84.85 | 91.45 | ---  |
| MEAN        | 3.50   | 3.84   | 3.25       | 3.77   | 5.93          | 3.48   | 4.07         | 4.26   | 2.80     | 2.74  | 2.95  | ---  |
| MAX         | 10.97  | 11.84  | 3.67       | 9.14   | 17.08         | 7.39   | 13.77        | 16.42  | 3.77     | 3.56  | 6.03  | ---  |
| MIN         | 2.80   | 2.81   | 3.06       | 3.17   | 3.52          | 3.11   | 3.07         | 2.80   | 2.65     | 2.55  | 2.57  | ---  |
| CAL YR 1984 | TOTAL  |        | 4001390.01 |        | MEAN 10932.76 |        | MAX 99998.00 |        | MIN 2.52 |       |       |      |

## 02436500 TOWN CREEK NEAR NETTLETON, MS

LOCATION.--Lat 34°03'32", long 88°37'40", in NW¼ 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>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for October 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 National Geodetic Vertical Datum of 1929 (levels by U. S. Army Corps of Engineers). Prior to Oct. 1, 1947, at datum 10.00 ft higher.

REMARKS.--Estimated daily discharges: Mar. 10-13 and May 18-21, 23 and 24. Records good.

AVERAGE DISCHARGE.--46 years, 974 ft<sup>3</sup>/s, 21.33 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 151,000 ft<sup>3</sup>/s, Mar. 22, 1955, gage height, 33.88 ft; minimum, 0.8 ft<sup>3</sup>/s, Sept. 14, 15, 1942.

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 (ft <sup>3</sup> /s) | Gage Height (ft) | Date    | Time | Discharge (ft <sup>3</sup> /s) | Gage Height (ft) |
|---------|------|--------------------------------|------------------|---------|------|--------------------------------|------------------|
| Feb. 11 | 1315 | 19,700                         | 25.25            | May 1   | 2015 | *20,400                        | *25.52           |
| Feb. 24 | 0500 | 15,800                         | 22.59            | May 8   | 1115 | 16,900                         | 22.98            |
| Apr. 24 | 0330 | 18,900                         | 23.60            | Aug. 16 | 2015 | 15,700                         | 22.11            |

Minimum daily discharge, 23 ft<sup>3</sup>/s, July 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC  | JAN   | FEB   | MAR   | APR   | MAY   | JUN  | JUL  | AUG   | SEP  |
|-------|-------|-------|------|-------|-------|-------|-------|-------|------|------|-------|------|
| 1     | 28    | 124   | 604  | 256   | 3130  | 814   | 1180  | 12500 | 92   | 64   | 46    | 77   |
| 2     | 29    | 1120  | 1170 | 238   | 1950  | 719   | 691   | 8920  | 82   | 95   | 95    | 68   |
| 3     | 29    | 376   | 963  | 194   | 2520  | 615   | 477   | 2090  | 72   | 57   | 48    | 76   |
| 4     | 29    | 205   | 480  | 609   | 2300  | 555   | 400   | 1380  | 67   | 48   | 39    | 154  |
| 5     | 29    | 158   | 381  | 449   | 2260  | 635   | 348   | 1060  | 64   | 72   | 33    | 296  |
| 6     | 30    | 126   | 641  | 324   | 4290  | 480   | 693   | 854   | 57   | 52   | 740   | 131  |
| 7     | 101   | 108   | 419  | 313   | 2960  | 415   | 446   | 883   | 54   | 41   | 244   | 78   |
| 8     | 566   | 98    | 336  | 310   | 1750  | 388   | 343   | 7610  | 56   | 37   | 81    | 114  |
| 9     | 448   | 88    | 295  | 250   | 1530  | 369   | 291   | 2860  | 53   | 34   | 53    | 1270 |
| 10    | 110   | 308   | 265  | 456   | 4410  | 344   | 258   | 1560  | 57   | 33   | 50    | 450  |
| 11    | 81    | 428   | 233  | 560   | 15700 | 311   | 240   | 1190  | 63   | 31   | 48    | 203  |
| 12    | 69    | 197   | 216  | 299   | 6500  | 291   | 226   | 886   | 100  | 31   | 42    | 135  |
| 13    | 62    | 125   | 209  | 226   | 2620  | 275   | 222   | 673   | 70   | 28   | 34    | 82   |
| 14    | 57    | 104   | 195  | 213   | 1960  | 261   | 250   | 575   | 52   | 27   | 33    | 61   |
| 15    | 55    | 123   | 178  | 189   | 1470  | 244   | 804   | 454   | 47   | 29   | 37    | 52   |
| 16    | 54    | 644   | 164  | 1260  | 1120  | 233   | 763   | 365   | 338  | 131  | 3080  | 47   |
| 17    | 414   | 248   | 197  | 5330  | 926   | 226   | 414   | 310   | 64   | 70   | 3800  | 43   |
| 18    | 213   | 1380  | 252  | 1130  | 770   | 204   | 316   | 278   | 632  | 38   | 577   | 41   |
| 19    | 154   | 6670  | 197  | 830   | 779   | 206   | 258   | 254   | 195  | 29   | 272   | 39   |
| 20    | 164   | 1430  | 243  | 533   | 1570  | 193   | 218   | 236   | 91   | 26   | 184   | 37   |
| 21    | 664   | 874   | 261  | 467   | 939   | 256   | 187   | 231   | 65   | 24   | 145   | 35   |
| 22    | 2920  | 657   | 275  | 489   | 689   | 651   | 165   | 364   | 54   | 23   | 118   | 33   |
| 23    | 5060  | 457   | 245  | 393   | 587   | 405   | 157   | 241   | 92   | 36   | 102   | 45   |
| 24    | 1560  | 346   | 193  | 367   | 9050  | 334   | 9250  | 199   | 65   | 44   | 96    | 116  |
| 25    | 896   | 279   | 283  | 328   | 2940  | 265   | 2140  | 164   | 50   | 95   | 1560  | 55   |
| 26    | 487   | 233   | 241  | 247   | 2030  | 224   | 1740  | 143   | 124  | 512  | 922   | 45   |
| 27    | 316   | 2010  | 192  | 235   | 1370  | 278   | 2020  | 125   | 257  | 857  | 252   | 39   |
| 28    | 231   | 3030  | 175  | 1130  | 1020  | 577   | 2060  | 114   | 536  | 206  | 160   | 35   |
| 29    | 180   | 920   | 164  | 798   | ---   | 382   | 1060  | 172   | 98   | 97   | 124   | 32   |
| 30    | 145   | 650   | 153  | 622   | ---   | 299   | 786   | 135   | 88   | 68   | 102   | 44   |
| 31    | 144   | ---   | 161  | 2430  | ---   | 1860  | ---   | 108   | ---  | 53   | 89    | ---  |
| TOTAL | 15325 | 23516 | 9981 | 21475 | 79140 | 13309 | 28403 | 46934 | 3735 | 2978 | 13206 | 3933 |
| MEAN  | 494   | 784   | 322  | 693   | 2826  | 429   | 947   | 1514  | 125  | 96.1 | 426   | 131  |
| MAX   | 5060  | 6670  | 1170 | 5330  | 15700 | 1860  | 9250  | 12500 | 632  | 857  | 3800  | 1270 |
| MIN   | 28    | 88    | 153  | 189   | 587   | 193   | 157   | 108   | 47   | 23   | 33    | 32   |
| CFSM  | .80   | 1.27  | .52  | 1.12  | 4.56  | .69   | 1.53  | 2.44  | .20  | .16  | .69   | .21  |
| IN.   | .92   | 1.41  | .60  | 1.29  | 4.75  | .80   | 1.70  | 2.82  | .22  | .18  | .79   | .24  |

CAL YR 1984 TOTAL 324806 MEAN 887 MAX 24000 MIN 22 CFSM 1.43 IN 19.49  
WTR YR 1985 TOTAL 261935 MEAN 718 MAX 15700 MIN 23 CFSM 1.16 IN 15.72

## MOBILE RIVER BASIN

02436500 TOWN CREEK NEAR NETTLETON, MS--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959, 1962-65, 1968, 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(NTU) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) |
|--------------|------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|----------------------------------------------|------------------------------|-------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| NOV<br>20... | 0915 | 1490                                            | 148                                               | 7.3                            | 10.0                        | 100                                          | 90                           | 11.7                                | 103                                                            | 4.9                                                            |
| FEB<br>20... | 0850 | 2090                                            | 215                                               | 7.2                            | 7.0                         | 80                                           | 85                           | 11.8                                | 96                                                             | 4.6                                                            |
| JUN<br>04... | 1600 | 64                                              | 350                                               | 8.9                            | 35.5                        | 10                                           | 2.5                          | 12.4                                | 181                                                            | 6.8                                                            |
| AUG<br>01... | 1610 | 43                                              | 338                                               | 9.4                            | 38.0                        | 25                                           | 8.0                          | 13.8                                | 209                                                            | 6.5                                                            |

| DATE         | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CACO3) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LITY<br>LAB<br>(MG/L<br>AS<br>CACO3) |
|--------------|----------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|-----------------------------------------------|
| NOV<br>20... | K1600                                                          | 68                                     | 5                                                      | 25                                           | 1.4                                                  | 3.4                                          | 9                 | .2                                      | 2.7                                                 | 63                                            |
| FEB<br>20... | 3700                                                           | 94                                     | 5                                                      | 35                                           | 1.5                                                  | 5.0                                          | 10                | .2                                      | 1.8                                                 | 89                                            |
| JUN<br>04... | K14                                                            | 130                                    | 9                                                      | 46                                           | 2.8                                                  | 19                                           | 24                | .8                                      | 2.7                                                 | 118                                           |
| AUG<br>01... | <10                                                            | 110                                    | 6                                                      | 41                                           | 2.5                                                  | 25                                           | 31                | 1                                       | 4.6                                                 | 107                                           |

| DATE         | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SIO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTI-<br>TUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | NITRO-<br>GEN,<br>NITRATE<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N) |
|--------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| NOV<br>20... | 9.9                                           | 5.7                                                 | .10                                                | 4.7                                               | 121                                                                | 91                                                                  | .16                                                 | 487                                               | .26                                                  | .040                                                 |
| FEB<br>20... | 15                                            | 6.9                                                 | .10                                                | 4.7                                               | 130                                                                | 120                                                                 | .18                                                 | 734                                               | .36                                                  | .040                                                 |
| JUN<br>04... | 21                                            | 24                                                  | .20                                                | 5.7                                               | 211                                                                | 190                                                                 | .29                                                 | 36                                                | .18                                                  | .020                                                 |
| AUG<br>01... | 17                                            | 30                                                  | .20                                                | 6.0                                               | 211                                                                | 190                                                                 | .29                                                 | 24                                                | .46                                                  | .040                                                 |

| DATE         | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |
|--------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|------------------------------------------------------|--------------------------------------------|------------------------------------------------------|
| NOV<br>20... | .30                                                  | .270                                                 | .43                                                  | .70                                                                 | 1.0                                       | .140                                        | .040                                                 | 82                                         | 34                                                   |
| FEB<br>20... | .40                                                  | .100                                                 | 1.2                                                  | 1.3                                                                 | 1.7                                       | .170                                        | <.010                                                | 160                                        | 28                                                   |
| JUN<br>04... | .20                                                  | .030                                                 | .47                                                  | .50                                                                 | .70                                       | .150                                        | .090                                                 | 8                                          | 12                                                   |
| AUG<br>01... | .50                                                  | <.010                                                | --                                                   | .90                                                                 | 1.4                                       | .430                                        | .330                                                 | 13                                         | 11                                                   |

## MOBILE RIVER BASIN

02436500 TOWN CREEK NEAR NETTLETON, MS--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS) | ARSENIC<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS AS) | CADMIUM<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD) | CADMIUM<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CD) | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR) | CHRO-<br>MIUM,<br>TOTAL<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G) | COBALT,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CO) | COBALT,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CO) | COPPER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU) |
|--------------|-------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------|
| AUG<br>01... | 3                                   | <1                                                                  | 1                                                       | <1                                                                   | 5                                                              | 5                                                                           | <1                                                      | <10                                                                  | 3                                                       |

| DATE         | COPPER,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CU) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB) | LEAD,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS PB) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) | MERCURY<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS HG) | NICKEL,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS NI) | NICKEL,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS NI) | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN) | ZINC,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS ZN) |
|--------------|----------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------|
| AUG<br>01... | 2                                                                    | 4                                                     | <10                                                                | .1                                                      | .05                                                                  | 11                                                      | <10                                                                  | 10                                                    | 10                                                                 |

## PESTICIDE ANALYSES, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | PCB,<br>TOTAL<br>(UG/L) | PCB,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | NAPH-<br>THA-<br>LENES,<br>POLY-<br>CHLOR.<br>TOTAL<br>(UG/L) | PCN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | ALDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L) | ALDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | CHLOR-<br>DANE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L) | CHLOR-<br>DANE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | DDD,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L) | DDD,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | DDE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L) | DDE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) |
|--------------|-------------------------|----------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------|
| AUG<br>01... | <.1                     | 1                                                        | <.10                                                          | <1.0                                                     | <.010                                                      | .1                                                          | <.1                                                                | <1.0                                                                | <.010                                                   | <.1                                                      | <.010                                                   | 2.4                                                      |

| DATE         | DDT,<br>TOTAL<br>(UG/L) | DDT,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | DI-<br>AZINON,<br>TOTAL<br>(UG/L) | DI-<br>ELDRIN,<br>TOTAL<br>(UG/L) | DI-<br>ELDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | ENDO-<br>SULFAN,<br>TOTAL<br>(UG/L) | ENDO-<br>SULFAN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | ENDRIN,<br>TOTAL<br>(UG/L) | ENDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | ETHION,<br>TOTAL<br>(UG/L) | HEPTA-<br>CHLOR,<br>TOTAL<br>(UG/L) |
|--------------|-------------------------|----------------------------------------------------------|-----------------------------------|-----------------------------------|--------------------------------------------------------------------|-------------------------------------|----------------------------------------------------------------------|----------------------------|-------------------------------------------------------------|----------------------------|-------------------------------------|
| AUG<br>01... | <.010                   | <.1                                                      | .12                               | <.010                             | <.1                                                                | <.010                               | <.1                                                                  | <.010                      | <.1                                                         | <.01                       | <.010                               |

| DATE         | HEPTA-<br>CHLOR,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/L) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG) | LINDANE<br>TOTAL<br>(UG/L) | LINDANE<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | MALA-<br>THION,<br>TOTAL<br>(UG/L) | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>(UG/L) | METH-<br>OXY-<br>CHLOR,<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG) | METHYL<br>PARA-<br>THION,<br>TOTAL<br>(UG/L) | METHYL<br>TRI-<br>THION,<br>TOTAL<br>(UG/L) | MIREX,<br>TOTAL<br>(UG/L) |
|--------------|----------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------|-------------------------------------------------------------|------------------------------------|--------------------------------------------|------------------------------------------------------------------|----------------------------------------------|---------------------------------------------|---------------------------|
| AUG<br>01... | <.1                                                                  | <.010                                                              | <.1                                                                 | <.010                      | <.1                                                         | <.01                               | <.01                                       | <.1                                                              | <.01                                         | <.01                                        | <.01                      |

| DATE         | MIREX,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | PARA-<br>THION,<br>TOTAL<br>(UG/L) | PER-<br>THANE<br>TOTAL<br>(UG/L) | PER-<br>THANE<br>IN<br>BOTTOM<br>MATERIL<br>(UG/KG) | TOX-<br>APHENE,<br>TOTAL<br>(UG/L) | TOXA-<br>PHENE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>TRI-<br>THION<br>(UG/L) | 2,4-D,<br>TOTAL<br>(UG/L) | 2, 4-DP<br>TOTAL<br>(UG/L) | 2,4,5-T<br>TOTAL<br>(UG/L) | SILVEX,<br>TOTAL<br>(UG/L) |
|--------------|------------------------------------------------------------|------------------------------------|----------------------------------|-----------------------------------------------------|------------------------------------|---------------------------------------------------------------------|----------------------------------|---------------------------|----------------------------|----------------------------|----------------------------|
| AUG<br>01... | .1                                                         | <.01                               | <.1                              | <1.00                                               | <1                                 | 40                                                                  | <.01                             | .04                       | <.01                       | <.01                       | <.01                       |



## MOBILE RIVER BASIN

02436500 TOWN CREEK NEAR NETTLETON, MS--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDE<br>(T/DAY) |
|-------|------|-------------------------------------------------|-------------------------------------------|---------------------------------------------------------------|
| DEC   |      |                                                 |                                           |                                                               |
| 13... | 1030 | 208                                             | 67                                        | 38                                                            |
| JAN   |      |                                                 |                                           |                                                               |
| 24... | 1100 | 369                                             | 70                                        | 70                                                            |
| MAR   |      |                                                 |                                           |                                                               |
| 13... | 1430 | 275                                             | 31                                        | 23                                                            |
| APR   |      |                                                 |                                           |                                                               |
| 23... | 1045 | 158                                             | 40                                        | 17                                                            |
| 24... | 1230 | 10500                                           | 1540                                      | 43700                                                         |
| MAY   |      |                                                 |                                           |                                                               |
| 01... | 0415 | 3100                                            | 1770                                      | 14800                                                         |
| 01... | 0515 | 5520                                            | 1940                                      | 28900                                                         |
| 01... | 0700 | 9510                                            | 3060                                      | 78600                                                         |
| 01... | 1100 | 11500                                           | 3170                                      | 98400                                                         |
| 01... | 1215 | 11300                                           | 2680                                      | 81800                                                         |
| 01... | 2230 | 20000                                           | 1420                                      | 76700                                                         |
| 02... | 1130 | 7470                                            | 605                                       | 12200                                                         |
| 03... | 0900 | 2150                                            | 431                                       | 2500                                                          |
| 08... | 0915 | 7020                                            | 2000                                      | 37900                                                         |
| 08... | 1130 | 15300                                           | 4730                                      | 195000                                                        |
| 08... | 1330 | 15600                                           | 3130                                      | 132000                                                        |
| 08... | 1600 | 11900                                           | 1990                                      | 63900                                                         |
| 09... | 0745 | 2850                                            | 772                                       | 5940                                                          |
| 09... | 1845 | 2050                                            | 484                                       | 2680                                                          |

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | TIME | SAMPLE<br>LOCAT.<br>X-SECT.<br>LOOKING<br>UPSTRM.<br>(% FROM<br>R BANK) | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.125 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.250 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.500 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>1.00 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>2.00 MM | BED<br>MAT.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>4.00 MM |
|-------|------|-------------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|
| MAY   |      |                                                                         |                                                             |                                                             |                                                             |                                                             |                                                             |                                                             |                                                             |
| 02... | 1132 | 25.0                                                                    | 0                                                           | 2                                                           | 13                                                          | 60                                                          | 100                                                         | --                                                          | --                                                          |
| 02... | 1134 | 50.0                                                                    | 0                                                           | 1                                                           | 7                                                           | 40                                                          | 99                                                          | 100                                                         | --                                                          |
| 02... | 1136 | 75.0                                                                    | 0                                                           | 1                                                           | 14                                                          | 55                                                          | 97                                                          | 99                                                          | 100                                                         |
| 09... | 0747 | 25.0                                                                    | 0                                                           | 3                                                           | 8                                                           | 91                                                          | 100                                                         | --                                                          | --                                                          |
| 09... | 0749 | 50.0                                                                    | 0                                                           | 2                                                           | 4                                                           | 95                                                          | 95                                                          | 99                                                          | 100                                                         |
| 09... | 0751 | 75.0                                                                    | 0                                                           | 1                                                           | 5                                                           | 28                                                          | 95                                                          | 98                                                          | 99                                                          |

## 02437000 TOMBIGBEE RIVER NEAR AMORY, MS

LOCATION.--Lat 33°59'07", long 88°33'03", in NW¼NE¼ 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>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1937 to current year. Monthly discharge only for October and November 1937, published in WSP 1304. Daily mean gage heights published since October 1971.

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

GAGE.--Water-stage recorder. Datum of gage is 178.34 ft above National Geodetic Vertical Datum of 1929 (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.--Estimated daily discharges: Nov. 29 to Mar. 4, Jan. 21-22 and Feb. 1-4. Records poor. Telemeter at station.

AVERAGE DISCHARGE.--48 years, 3,130 ft<sup>3</sup>/s, 22.05 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 162,000 ft<sup>3</sup>/s, Mar. 17, 1973, gage height, 34.65 ft; minimum discharge, 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 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) |
|---------|---------|-----------------------------------|---------------------|-------|------|-----------------------------------|---------------------|
| Feb. 12 | unknown | *24,200                           | *24.07              | May 2 | 1115 | 20,100                            | 22.57               |

Minimum daily discharge, 371 ft<sup>3</sup>/s, Oct. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB    | MAR   | APR   | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|
| 1     | 439   | 938   | 4140  | 875   | 7080   | 3070  | 3210  | 8560   | 596   | 602   | 583   | 473   |
| 2     | 460   | 2050  | 4200  | 708   | 3770   | 2670  | 2660  | 18300  | 553   | 574   | 527   | 548   |
| 3     | 371   | 975   | 4820  | 555   | 3070   | 2430  | 2220  | 13400  | 423   | 539   | 613   | 572   |
| 4     | 384   | 705   | 3460  | 671   | 2770   | 2050  | 1900  | 9400   | 455   | 541   | 561   | 555   |
| 5     | 375   | 666   | 2680  | 997   | 4700   | 1550  | 1300  | 5900   | 481   | 658   | 540   | 631   |
| 6     | 375   | 1910  | 2700  | 1260  | 8570   | 1360  | 1340  | 3980   | 484   | 649   | 924   | 515   |
| 7     | 403   | 607   | 2390  | 1050  | 7570   | 1180  | 1310  | 2880   | 567   | 586   | 642   | 536   |
| 8     | 764   | 610   | 2570  | 997   | 5810   | 1060  | 1130  | 7210   | 443   | 558   | 499   | 673   |
| 9     | 833   | 876   | 2630  | 1020  | 5370   | 925   | 864   | 8030   | 546   | 597   | 475   | 1860  |
| 10    | 814   | 627   | 2780  | 972   | 6460   | 785   | 915   | 4430   | 526   | 555   | 542   | 695   |
| 11    | 574   | 1020  | 2610  | 746   | 16700  | 816   | 716   | 3480   | 505   | 578   | 518   | 563   |
| 12    | 576   | 1220  | 2530  | 1230  | 20100  | 700   | 613   | 2830   | 630   | 579   | 470   | 484   |
| 13    | 438   | 574   | 2280  | 1290  | 12700  | 736   | 588   | 2300   | 529   | 517   | 524   | 460   |
| 14    | 410   | 500   | 1500  | 1650  | 11800  | 614   | 635   | 1710   | 511   | 593   | 460   | 560   |
| 15    | 512   | 569   | 947   | 2440  | 8940   | 662   | 915   | 864    | 447   | 593   | 449   | 480   |
| 16    | 449   | 772   | 875   | 2340  | 5610   | 599   | 1880  | 1040   | 946   | 552   | 1690  | 541   |
| 17    | 979   | 757   | 788   | 8700  | 3930   | 587   | 1150  | 598    | 515   | 542   | 7080  | 504   |
| 18    | 974   | 1030  | 708   | 4120  | 3220   | 580   | 787   | 518    | 1770  | 586   | 2490  | 455   |
| 19    | 829   | 9160  | 671   | 3490  | 2670   | 603   | 766   | 550    | 758   | 582   | 1180  | 554   |
| 20    | 781   | 4290  | 671   | 3030  | 3490   | 657   | 732   | 588    | 597   | 583   | 650   | 517   |
| 21    | 1520  | 3610  | 708   | 2720  | 3070   | 674   | 699   | 581    | 528   | 566   | 619   | 509   |
| 22    | 4130  | 3600  | 708   | 2590  | 2990   | 2660  | 588   | 689    | 538   | 519   | 546   | 595   |
| 23    | 8750  | 3290  | 788   | 2510  | 2900   | 2270  | 614   | 582    | 606   | 518   | 567   | 552   |
| 24    | 5690  | 2740  | 875   | 2470  | 6290   | 2020  | 9780  | 665    | 591   | 558   | 603   | 511   |
| 25    | 3610  | 2020  | 727   | 2440  | 8690   | 1370  | 5990  | 685    | 515   | 589   | 1570  | 471   |
| 26    | 2910  | 1110  | 767   | 2470  | 5670   | 1050  | 3890  | 506    | 599   | 775   | 1760  | 458   |
| 27    | 2530  | 2790  | 727   | 2420  | 4650   | 1020  | 4690  | 528    | 593   | 1780  | 696   | 461   |
| 28    | 2220  | 7080  | 875   | 2640  | 3540   | 1290  | 4140  | 534    | 879   | 849   | 570   | 460   |
| 29    | 1500  | 3320  | 708   | 2870  | ---    | 1570  | 2920  | 490    | 651   | 757   | 549   | 547   |
| 30    | 869   | 3490  | 746   | 2730  | ---    | 1050  | 2440  | 842    | 537   | 520   | 559   | 502   |
| 31    | 668   | ---   | 671   | 3100  | ---    | 3880  | ---   | 1780   | ---   | 543   | 467   | ---   |
| TOTAL | 46137 | 62906 | 54250 | 67101 | 182130 | 42488 | 61382 | 104450 | 18319 | 19538 | 29923 | 17242 |
| MEAN  | 1488  | 2097  | 1750  | 2165  | 6505   | 1371  | 2046  | 3369   | 611   | 630   | 965   | 575   |
| MAX   | 8750  | 9160  | 4820  | 8700  | 20100  | 3880  | 9780  | 18300  | 1770  | 1780  | 7080  | 1860  |
| MIN   | 371   | 500   | 671   | 555   | 2670   | 580   | 588   | 490    | 423   | 517   | 449   | 455   |
| CFSM  | .77   | 1.09  | .91   | 1.12  | 3.37   | .71   | 1.06  | 1.75   | .32   | .33   | .50   | .30   |
| IN.   | .89   | 1.21  | 1.05  | 1.29  | 3.51   | .82   | 1.18  | 2.02   | .35   | .38   | .58   | .33   |

|             |       |         |      |      |     |       |     |     |      |      |    |       |
|-------------|-------|---------|------|------|-----|-------|-----|-----|------|------|----|-------|
| CAL YR 1984 | TOTAL | 1062218 | MEAN | 2902 | MAX | 36500 | MIN | 359 | CFSM | 1.51 | IN | 20.50 |
| WTR YR 1985 | TOTAL | 705866  | MEAN | 1934 | MAX | 20100 | MIN | 371 | CFSM | 1.00 | IN | 13.62 |

## MOBILE RIVER BASIN

02437000 TOMBIGBEE RIVER NEAR AMORY, MS--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY         | OCT    | NOV     | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1           | 11.23  | 11.46   | 13.58  | 11.48  | 15.75  | 12.60  | 12.72  | 16.31  | 11.30  | 11.32  | 11.32  | 11.24  |
| 2           | 11.24  | 11.98   | 13.63  | 11.40  | 13.26  | 12.20  | 12.19  | 21.75  | 11.29  | 11.30  | 11.28  | 11.29  |
| 3           | 11.15  | 11.49   | 14.14  | 11.31  | 12.60  | 11.95  | 11.91  | 19.23  | 11.20  | 11.28  | 11.34  | 11.31  |
| 4           | 10.94  | 11.39   | 12.97  | 11.38  | 12.30  | 11.80  | 11.77  | 17.12  | 11.23  | 11.29  | 11.30  | 11.31  |
| 5           | 10.66  | 11.34   | 12.21  | 11.53  | 14.04  | 11.69  | 11.62  | 14.93  | 11.25  | 11.36  | 11.29  | 11.35  |
| 6           | 10.55  | 11.89   | 12.23  | 11.62  | 16.67  | 11.64  | 11.63  | 13.43  | 11.24  | 11.35  | 11.45  | 11.28  |
| 7           | 10.61  | 11.34   | 11.90  | 11.55  | 16.06  | 11.59  | 11.63  | 12.41  | 11.31  | 11.31  | 11.35  | 11.29  |
| 8           | 10.81  | 11.34   | 12.10  | 11.53  | 14.88  | 11.55  | 11.57  | 15.43  | 11.22  | 11.30  | 11.26  | 11.33  |
| 9           | 10.98  | 11.44   | 12.16  | 11.54  | 14.56  | 11.49  | 11.47  | 16.20  | 11.29  | 11.33  | 11.24  | 11.80  |
| 10          | 11.35  | 11.35   | 12.31  | 11.52  | 15.34  | 11.43  | 11.49  | 13.81  | 11.28  | 11.31  | 11.29  | 11.37  |
| 11          | 11.31  | 11.54   | 12.14  | 11.42  | 21.03  | 11.45  | 11.39  | 12.99  | 11.27  | 11.31  | 11.27  | 11.31  |
| 12          | 11.31  | 11.58   | 12.06  | 11.61  | 22.58  | 11.38  | 11.33  | 12.36  | 11.32  | 11.31  | 11.24  | 11.26  |
| 13          | 11.22  | 11.32   | 11.86  | 11.63  | 18.88  | 11.40  | 11.32  | 11.94  | 11.28  | 11.28  | 11.28  | 11.24  |
| 14          | 11.20  | 11.27   | 11.69  | 11.72  | 18.43  | 11.34  | 11.35  | 11.73  | 11.27  | 11.32  | 11.23  | 11.30  |
| 15          | 11.28  | 11.31   | 11.51  | 11.97  | 16.89  | 11.36  | 11.48  | 11.47  | 11.22  | 11.32  | 11.22  | 11.24  |
| 16          | 11.23  | 11.43   | 11.48  | 11.88  | 14.74  | 11.33  | 11.77  | 11.50  | 11.46  | 11.30  | 12.01  | 11.29  |
| 17          | 11.49  | 11.43   | 11.44  | 16.75  | 13.40  | 11.32  | 11.58  | 11.33  | 11.27  | 11.30  | 15.62  | 11.27  |
| 18          | 11.50  | 11.59   | 11.40  | 13.56  | 12.75  | 11.31  | 11.42  | 11.28  | 11.81  | 11.33  | 12.04  | 11.23  |
| 19          | 11.42  | 16.98   | 11.38  | 13.00  | 12.20  | 11.34  | 11.42  | 11.29  | 11.41  | 11.32  | 11.58  | 11.30  |
| 20          | 11.43  | 13.70   | 11.38  | 12.56  | 13.00  | 11.37  | 11.39  | 11.31  | 11.33  | 11.32  | 11.36  | 11.28  |
| 21          | 11.77  | 13.12   | 11.40  | 12.25  | 12.60  | 11.38  | 11.38  | 11.32  | 11.27  | 11.30  | 11.34  | 11.27  |
| 22          | 13.58  | 13.10   | 11.40  | 12.12  | 12.52  | 12.34  | 11.32  | 11.38  | 11.29  | 11.27  | 11.30  | 11.32  |
| 23          | 16.80  | 12.81   | 11.44  | 12.04  | 12.43  | 12.00  | 11.34  | 11.31  | 11.32  | 11.28  | 11.31  | 11.30  |
| 24          | 14.73  | 12.27   | 11.48  | 12.00  | 15.22  | 11.83  | 17.12  | 11.35  | 11.32  | 11.29  | 11.34  | 11.26  |
| 25          | 13.11  | 11.81   | 11.41  | 11.96  | 16.74  | 11.65  | 14.91  | 11.36  | 11.28  | 11.33  | 11.83  | 11.24  |
| 26          | 12.44  | 11.55   | 11.43  | 12.00  | 14.78  | 11.54  | 13.35  | 11.26  | 11.33  | 11.42  | 11.85  | 11.23  |
| 27          | 12.06  | 12.67   | 11.41  | 11.94  | 13.70  | 11.53  | 14.03  | 11.28  | 11.33  | 11.78  | 11.39  | 11.23  |
| 28          | 11.86  | 15.66   | 11.48  | 12.17  | 13.05  | 11.62  | 13.57  | 11.29  | 11.47  | 11.46  | 11.31  | 11.23  |
| 29          | 11.67  | 13.36   | 11.40  | 12.40  | ---    | 11.71  | 12.45  | 11.26  | 11.36  | 11.40  | 11.30  | 11.30  |
| 30          | 11.47  | 13.52   | 11.42  | 12.26  | ---    | 11.54  | 11.98  | 11.41  | 11.29  | 11.27  | 11.31  | 11.27  |
| 31          | 11.37  | ---     | 11.38  | 12.63  | ---    | 13.43  | ---    | 11.75  | ---    | 11.30  | 11.24  | ---    |
| TOTAL       | 363.77 | 367.04  | 369.22 | 374.73 | 420.40 | 362.11 | 363.90 | 402.79 | 339.51 | 351.36 | 357.49 | 338.94 |
| MEAN        | 11.73  | 12.23   | 11.91  | 12.09  | 15.01  | 11.68  | 12.13  | 12.99  | 11.32  | 11.33  | 11.53  | 11.30  |
| MAX         | 16.80  | 16.98   | 14.14  | 16.75  | 22.58  | 13.43  | 17.12  | 21.75  | 11.81  | 11.78  | 15.62  | 11.80  |
| MIN         | 10.55  | 11.27   | 11.38  | 11.31  | 12.20  | 11.31  | 11.32  | 11.26  | 11.20  | 11.27  | 11.22  | 11.23  |
| WTR YR 1985 | TOTAL  | 4411.26 | MEAN   | 12.09  | MAX    | 22.58  | MIN    | 10.55  |        |        |        |        |

## MOBILE RIVER BASIN

02437000 TOMBIGBEE RIVER NEAR AMORY, MS--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963-64, 1972 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(NTU) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) |
|--------------|------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|----------------------------------------------|------------------------------|-------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| NOV<br>20... | 1020 | 3470                                            | 100                                               | 6.8                            | 11.0                        | 110                                          | 100                          | 11.0                                | 99                                                             | 4.3                                                            |
| FEB<br>20... | 0950 | 3190                                            | 175                                               | 7.0                            | 7.5                         | 30                                           | 60                           | 11.6                                | 96                                                             | 3.1                                                            |
| JUN<br>04... | 1430 | 335                                             | 218                                               | 8.2                            | 31.0                        | 10                                           | .80                          | 9.6                                 | 130                                                            | 4.8                                                            |
| AUG<br>01... | 1445 | 497                                             | 136                                               | 8.3                            | 31.0                        | 25                                           | 17                           | 9.3                                 | 126                                                            | 4.7                                                            |

| DATE         | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | HARD-<br>NESS<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CAC03) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LITY<br>LAB<br>(MG/L<br>AS<br>CAC03) |
|--------------|----------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|-----------------------------------------------|
| NOV<br>20... | 2800                                                           | 45                                     | 7                                                      | 16                                           | 1.2                                                  | 2.5                                          | 10                | .2                                      | 2.7                                                 | 38                                            |
| FEB<br>20... | 1400                                                           | 74                                     | 11                                                     | 27                                           | 1.5                                                  | 4.8                                          | 12                | .3                                      | 1.7                                                 | 63                                            |
| JUN<br>04... | K9                                                             | 83                                     | 7                                                      | 29                                           | 2.5                                                  | 8.5                                          | 18                | .4                                      | 2.1                                                 | 76                                            |
| AUG<br>01... | K19                                                            | 55                                     | 5                                                      | 19                                           | 1.9                                                  | 4.5                                          | 14                | .3                                      | 2.4                                                 | 50                                            |

| DATE         | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTI-<br>TUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | NITRO-<br>GEN,<br>NITRATE<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N) |
|--------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| NOV<br>20... | 9.8                                           | 4.2                                                 | .10                                                | 5.7                                               | 79                                                                 | 65                                                                  | .11                                                 | 740                                               | .17                                                  | .030                                                 |
| FEB<br>20... | 18                                            | 6.9                                                 | .10                                                | 6.0                                               | 115                                                                | 100                                                                 | .16                                                 | 990                                               | .18                                                  | .020                                                 |
| JUN<br>04... | 14                                            | 7.7                                                 | .10                                                | 7.1                                               | 111                                                                | 120                                                                 | .15                                                 | 100                                               | --                                                   | <.010                                                |
| AUG<br>01... | 9.2                                           | 6.4                                                 | .30                                                | 6.6                                               | 94                                                                 | 81                                                                  | .13                                                 | 126                                               | --                                                   | <.010                                                |

| DATE         | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |
|--------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|------------------------------------------------------|--------------------------------------------|------------------------------------------------------|
| NOV<br>20... | .20                                                  | .290                                                 | .31                                                  | .60                                                                 | .80                                       | .110                                        | <.010                                                | 430                                        | 83                                                   |
| FEB<br>20... | .20                                                  | .070                                                 | .73                                                  | .80                                                                 | 1.0                                       | .100                                        | <.010                                                | 86                                         | 58                                                   |
| JUN<br>04... | <.10                                                 | <.010                                                | --                                                   | .30                                                                 | --                                        | .070                                        | <.010                                                | 59                                         | 94                                                   |
| AUG<br>01... | <.10                                                 | <.010                                                | --                                                   | .50                                                                 | --                                        | .050                                        | <.010                                                | 260                                        | 30                                                   |



## MOBILE RIVER BASIN

02437000 TOMBIGBEE RIVER NEAR AMORY, MS--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS) | ARSENIC<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS AS) | CADMIUM<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD) | CADMIUM<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CD) | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR) | CHRO-<br>MIUM,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G) | COBALT,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CO) | COBALT,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CO) | COPPER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU) |
|--------------|-------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------|
| AUG<br>01... | 1                                   | <1                                                                  | <1                                                      | <1                                                                   | 10                                                             | 1                                                                  | 1                                                       | <10                                                                  | 9                                                       |

| DATE         | COPPER,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CU) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB) | LEAD,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS PB) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) | MERCURY<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS HG) | NICKEL,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS NI) | NICKEL,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS NI) | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN) | ZINC,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS ZN) |
|--------------|----------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------|
| AUG<br>01... | <1                                                                   | 3                                                     | <10                                                                | <.1                                                     | .03                                                                  | 7                                                       | <10                                                                  | 20                                                    | 4                                                                  |

## PESTICIDE ANALYSES, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | PCB,<br>TOTAL<br>(UG/L) | PCB,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | NAPH-<br>THA-<br>LENES,<br>POLY-<br>CHLOR.<br>TOTAL<br>(UG/L) | PCN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | ALDRIN,<br>TOTAL<br>(UG/L) | ALDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | CHLOR-<br>DANE,<br>TOTAL<br>(UG/L) | CHLOR-<br>DANE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | DDD,<br>TOTAL<br>(UG/L) | DDD,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | DDE,<br>TOTAL<br>(UG/L) | DDE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) |
|--------------|-------------------------|----------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------|----------------------------|-------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------|-------------------------|----------------------------------------------------------|-------------------------|----------------------------------------------------------|
| AUG<br>01... | <.1                     | <1                                                       | <.10                                                          | <1.0                                                     | <.010                      | <.1                                                         | <.1                                | 2.0                                                                 | <.010                   | .6                                                       | <.010                   | 1.4                                                      |

| DATE         | DDT,<br>TOTAL<br>(UG/L) | DDT,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | DI-<br>AZINON,<br>TOTAL<br>(UG/L) | DI-<br>ELDRIN<br>TOTAL<br>(UG/L) | DI-<br>ELDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | ENDO-<br>SULFAN,<br>TOTAL<br>(UG/L) | ENDO-<br>SULFAN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | ENDRIN,<br>TOTAL<br>(UG/L) | ENDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | ETHION,<br>TOTAL<br>(UG/L) | HEPTA-<br>CHLOR,<br>TOTAL<br>(UG/L) |
|--------------|-------------------------|----------------------------------------------------------|-----------------------------------|----------------------------------|--------------------------------------------------------------------|-------------------------------------|----------------------------------------------------------------------|----------------------------|-------------------------------------------------------------|----------------------------|-------------------------------------|
| AUG<br>01... | <.010                   | .5                                                       | <.02                              | <.010                            | <.1                                                                | <.010                               | <.1                                                                  | <.010                      | <.1                                                         | <.01                       | <.010                               |

| DATE         | HEPTA-<br>CHLOR,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOTAL<br>(UG/L) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG) | LINDANE<br>TOTAL<br>(UG/L) | LINDANE<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | MALA-<br>THION,<br>TOTAL<br>(UG/L) | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>(UG/L) | METH-<br>OXY-<br>CHLOR,<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG) | METHYL<br>PARA-<br>THION,<br>TOTAL<br>(UG/L) | METHYL<br>TRI-<br>THION,<br>TOTAL<br>(UG/L) | MIREX,<br>TOTAL<br>(UG/L) |
|--------------|----------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------|----------------------------|-------------------------------------------------------------|------------------------------------|--------------------------------------------|------------------------------------------------------------------|----------------------------------------------|---------------------------------------------|---------------------------|
| AUG<br>01... | <.1                                                                  | <.010                                         | <.1                                                                 | <.010                      | <.1                                                         | <.01                               | <.01                                       | <.1                                                              | <.01                                         | <.01                                        | <.01                      |

| DATE         | MIREX,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | PARA-<br>THION,<br>TOTAL<br>(UG/L) | PER-<br>THANE<br>TOTAL<br>(UG/L) | PER-<br>THANE<br>IN<br>BOTTOM<br>MATERIAL<br>(UG/KG) | TOX-<br>APHENE,<br>TOTAL<br>(UG/L) | TOXA-<br>PHENE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>TRI-<br>THION<br>(UG/L) | 2,4-D,<br>TOTAL<br>(UG/L) | 2, 4-OP<br>TOTAL<br>(UG/L) | 2,4,5-T<br>TOTAL<br>(UG/L) | SILVEX,<br>TOTAL<br>(UG/L) |
|--------------|------------------------------------------------------------|------------------------------------|----------------------------------|------------------------------------------------------|------------------------------------|---------------------------------------------------------------------|----------------------------------|---------------------------|----------------------------|----------------------------|----------------------------|
| AUG<br>01... | .1                                                         | <.01                               | <.1                              | <1.00                                                | <1                                 | 20                                                                  | <.01                             | .03                       | <.01                       | <.01                       | <.01                       |

## MOBILE RIVER BASIN

02437101 TOMBIGBEE RIVER BELOW ABERDEEN LOCK AND DAM, MS

LOCATION.--Lat 33 49 29 , long 88 31 16 , in SW sec.22, T.14 S., R.19 W., Huntsville Meridian, Monroe County,  
Hydrologic Unit 03160101, 800 ft downstream from spillway, 1.5 mi northeast of Aberdeen, and at mile 362.9.

DRAINAGE AREA.--2,040 mi<sup>2</sup>.

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(NTU) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) |
|--------------|------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|----------------------------------------------|------------------------------|-------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| NOV<br>20... | 1130 | 2120                                            | 130                                               | 7.7                            | 12.0                        | 110                                          | 130                          | 11.1                                | 102                                                            | 4.1                                                            |
| FEB<br>21... | 1100 | 2120                                            | 85                                                | 6.9                            | 8.0                         | 40                                           | 30                           | 13.3                                | 112                                                            | 3.2                                                            |
| MAY<br>22... | 0930 | 2120                                            | 116                                               | 7.5                            | 23.5                        | 25                                           | 7.5                          | 9.3                                 | 110                                                            | 2.9                                                            |
| AUG<br>01... | 1000 | 270                                             | 121                                               | 7.1                            | 28.5                        | 20                                           | 15                           | 8.7                                 | 112                                                            | 1.3                                                            |

| DATE         | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | HARD-<br>NESS<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CAC03) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LINITY<br>LAB<br>(MG/L<br>AS<br>CAC03) |
|--------------|----------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|-------------------------------------------------|
| NOV<br>20... | --                                                             | 58                                     | 5                                                      | 21                                           | 1.3                                                  | 3.0                                          | 10                | .2                                      | 2.7                                                 | 53                                              |
| FEB<br>21... | 100                                                            | 34                                     | 4                                                      | 12                                           | .93                                                  | 2.4                                          | 13                | .2                                      | 1.3                                                 | 30                                              |
| MAY<br>22... | K20                                                            | 49                                     | 6                                                      | 17                                           | 1.5                                                  | 3.3                                          | 12                | .2                                      | 1.8                                                 | 43                                              |
| AUG<br>01... | K4                                                             | 47                                     | 3                                                      | 16                                           | 1.8                                                  | 4.1                                          | 15                | .3                                      | 2.2                                                 | 44                                              |

| DATE         | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTITUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | NITRO-<br>GEN,<br>NITRATE<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N) |
|--------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| NOV<br>20... | 9.5                                           | 5.7                                                 | .20                                                | 5.0                                               | 81                                                                 | 80                                                             | .11                                                 | 464                                               | .26                                                  | .040                                                 |
| FEB<br>21... | 9.9                                           | 4.1                                                 | <.10                                               | 5.2                                               | 64                                                                 | 54                                                             | .09                                                 | 366                                               | .18                                                  | .020                                                 |
| MAY<br>22... | 8.1                                           | 3.9                                                 | <.10                                               | 6.1                                               | 76                                                                 | 68                                                             | .10                                                 | 435                                               | --                                                   | <.010                                                |
| AUG<br>01... | 7.5                                           | 5.3                                                 | .20                                                | 4.3                                               | 77                                                                 | 68                                                             | .10                                                 | 56                                                | .09                                                  | .010                                                 |

| DATE         | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |
|--------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|------------------------------------------------------|--------------------------------------------|------------------------------------------------------|
| NOV<br>20... | .30                                                  | .510                                                 | .09                                                  | .60                                                                 | .90                                       | .160                                        | .020                                                 | 68                                         | 46                                                   |
| FEB<br>21... | .20                                                  | <.010                                                | --                                                   | .80                                                                 | 1.0                                       | <.010                                       | <.010                                                | 52                                         | 76                                                   |
| MAY<br>22... | <.10                                                 | .050                                                 | .75                                                  | .80                                                                 | --                                        | .020                                        | <.010                                                | 270                                        | 5                                                    |
| AUG<br>01... | .10                                                  | .110                                                 | .39                                                  | .50                                                                 | .60                                       | <.010                                       | <.010                                                | 86                                         | 7                                                    |

## MOBILE RIVER BASIN

02437600 JAMES CREEK AT ABERDEEN, MS

LOCATION.--Lat 33 48 48 , long 88 33 59 , in SE sec.33, T.14 S., R.7 E., Chickasaw Meridian, Monroe County, Hydrologic Unit 03160101, at downstream side of bridge on State Highway 25, 0.8 mi southwest of Aberdeen, and 1.5 mi southwest of intersection of State Highway 25 and State Highway 8 and U.S. Highway 45.

DRAINAGE AREA.--28.4 mi<sup>2</sup>.

PERIOD OF RECORD.--Water years 1963, 1977 to current year.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(NTU) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) |
|--------------|------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|----------------------------------------------|------------------------------|-------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| NOV<br>20... | 1125 | 12                                              | 228                                               | 7.3                            | 10.0                        | 55                                           | 55                           | 12.9                                | 113                                                            | 4.4                                                            |
| FEB<br>20... | 1120 | 7.7                                             | 394                                               | 7.6                            | 11.5                        | 15                                           | 20                           | 11.4                                | 104                                                            | 3.7                                                            |
| AUG<br>02... | 1100 | 14                                              | 124                                               | 7.6                            | 26.0                        | 150                                          | 100                          | 6.6                                 | 82                                                             | 3.7                                                            |

| DATE         | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | HARD-<br>NESS<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CAC03) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LITY<br>LAB<br>(MG/L<br>AS<br>CAC03) |
|--------------|----------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|-----------------------------------------------|
| NOV<br>20... | 1100                                                           | 110                                    | 18                                                     | 43                                           | 1.3                                                  | 3.7                                          | 6                 | .2                                      | 2.8                                                 | 95                                            |
| FEB<br>20... | 220                                                            | 190                                    | 39                                                     | 72                                           | 1.9                                                  | 7.7                                          | 8                 | .3                                      | 1.9                                                 | 149                                           |
| AUG<br>02... | >1200                                                          | 53                                     | 10                                                     | 20                                           | .69                                                  | 2.3                                          | 8                 | .1                                      | 2.2                                                 | 43                                            |

| DATE         | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTITUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | NITRO-<br>GEN,<br>NITRATE<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N) |
|--------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| NOV<br>20... | 20                                            | 11                                                  | .20                                                | 6.2                                               | 170                                                                | 150                                                            | .23                                                 | 5.5                                               | .18                                                  | .020                                                 |
| FEB<br>20... | 44                                            | 13                                                  | .30                                                | 3.8                                               | 255                                                                | 230                                                            | .35                                                 | 5.3                                               | .29                                                  | .010                                                 |
| AUG<br>02... | 11                                            | 3.4                                                 | .30                                                | 6.6                                               | 89                                                                 | 72                                                             | .12                                                 | 3.4                                               | .45                                                  | .050                                                 |

| DATE         | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |
|--------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|------------------------------------------------------|--------------------------------------------|------------------------------------------------------|
| NOV<br>20... | .20                                                  | .170                                                 | .33                                                  | .50                                                                 | .70                                       | .110                                        | .020                                                 | 57                                         | 12                                                   |
| FEB<br>20... | .30                                                  | <.010                                                | --                                                   | 1.1                                                                 | 1.4                                       | .050                                        | <.010                                                | 21                                         | 24                                                   |
| AUG<br>02... | .50                                                  | .040                                                 | 1.2                                                  | 1.2                                                                 | 1.7                                       | .270                                        | .160                                                 | 66                                         | 8                                                    |

## 02439400 BUTTAHATCHEE RIVER NEAR ABERDEEN, MS

LOCATION.--Lat 33°47'24", long 88°18'53", in NW¼ 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.--799 mi<sup>2</sup>.

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

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

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

REMARKS.--Estimated daily discharges: Nov. 12 to Dec. 12 and July 25 to Aug. 2. Records good except those for estimated daily discharges, which are poor. U. S. Army Corps of Engineers telemeter at station.

AVERAGE DISCHARGE.--19 years, 1,481 ft<sup>3</sup>/s, 25.17 in/yr. The figure published in the 1983 and 1984 reports were in error. The correct figures are: 17 years, 1,476 ft<sup>3</sup>/s, 25.09 in/yr., and 18 years, 1,487 ft<sup>3</sup>/s, 25.27 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 80,000 ft<sup>3</sup>/s, Mar. 17, 1973, gage height, 33.48 ft, observed at crest; minimum, 117 ft<sup>3</sup>/s, Sept. 16, 1972, gage height, 4.26 ft.

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; all at present datum.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base 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) |
|---------|------|-----------------------------------|---------------------|-------|------|-----------------------------------|---------------------|
| Oct. 25 | 0200 | 9,870                             | 15.31               | May 3 | 0700 | *36,000                           | *19.29              |

Minimum discharge, 132 ft<sup>3</sup>/s, Oct. 1, gage height, 4.68 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY    | JUN   | JUL   | AUG   | SEP  |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|------|
| 1     | 134   | 756   | 5600  | 751   | 1810  | 1480  | 1310  | 2050   | 479   | 474   | 780   | 377  |
| 2     | 135   | 808   | 3000  | 898   | 2480  | 1340  | 1480  | 14800  | 452   | 488   | 437   | 350  |
| 3     | 138   | 1090  | 3400  | 1120  | 3280  | 1270  | 1190  | 32100  | 430   | 527   | 403   | 332  |
| 4     | 141   | 1070  | 3900  | 1060  | 4380  | 1200  | 1030  | 14800  | 403   | 452   | 378   | 340  |
| 5     | 144   | 870   | 3200  | 1100  | 4120  | 1140  | 956   | 7740   | 381   | 410   | 355   | 370  |
| 6     | 144   | 754   | 2600  | 1070  | 3230  | 1090  | 1130  | 5010   | 362   | 550   | 334   | 363  |
| 7     | 144   | 661   | 2050  | 956   | 3710  | 1010  | 1610  | 3310   | 348   | 570   | 330   | 338  |
| 8     | 163   | 590   | 1670  | 893   | 5510  | 951   | 1520  | 2320   | 336   | 508   | 506   | 323  |
| 9     | 190   | 549   | 1380  | 847   | 5000  | 922   | 1210  | 2080   | 335   | 424   | 493   | 554  |
| 10    | 244   | 550   | 1220  | 812   | 3470  | 908   | 1040  | 2420   | 339   | 359   | 391   | 542  |
| 11    | 239   | 766   | 1050  | 835   | 2830  | 878   | 943   | 2640   | 601   | 329   | 336   | 404  |
| 12    | 214   | 985   | 1040  | 888   | 3010  | 856   | 879   | 2410   | 1150  | 306   | 303   | 339  |
| 13    | 197   | 1000  | 999   | 819   | 4160  | 836   | 839   | 1890   | 955   | 330   | 280   | 306  |
| 14    | 185   | 900   | 955   | 752   | 5560  | 794   | 821   | 1450   | 759   | 344   | 265   | 283  |
| 15    | 178   | 780   | 918   | 730   | 4800  | 771   | 914   | 1220   | 550   | 301   | 261   | 266  |
| 16    | 175   | 740   | 870   | 726   | 3220  | 747   | 1200  | 1050   | 459   | 346   | 319   | 256  |
| 17    | 190   | 840   | 830   | 1010  | 2360  | 723   | 1140  | 931    | 511   | 587   | 760   | 248  |
| 18    | 322   | 900   | 827   | 1760  | 1900  | 709   | 939   | 847    | 592   | 525   | 1640  | 242  |
| 19    | 509   | 940   | 849   | 2100  | 1650  | 696   | 841   | 797    | 1260  | 431   | 1810  | 236  |
| 20    | 342   | 960   | 830   | 1670  | 1530  | 676   | 758   | 745    | 1290  | 344   | 986   | 235  |
| 21    | 546   | 990   | 818   | 1270  | 1530  | 667   | 701   | 702    | 860   | 301   | 702   | 226  |
| 22    | 1680  | 1000  | 820   | 959   | 1470  | 840   | 662   | 757    | 622   | 275   | 816   | 221  |
| 23    | 3370  | 900   | 846   | 949   | 1330  | 1200  | 629   | 763    | 514   | 260   | 745   | 242  |
| 24    | 7500  | 810   | 879   | 1010  | 1330  | 1230  | 739   | 710    | 462   | 342   | 562   | 305  |
| 25    | 7930  | 730   | 805   | 988   | 1520  | 1260  | 1270  | 657    | 430   | 500   | 602   | 499  |
| 26    | 4480  | 700   | 822   | 933   | 1770  | 1130  | 1520  | 610    | 405   | 710   | 873   | 443  |
| 27    | 1790  | 4600  | 852   | 853   | 1850  | 972   | 1180  | 566    | 443   | 1000  | 901   | 357  |
| 28    | 1020  | 11000 | 795   | 839   | 1720  | 944   | 1020  | 532    | 590   | 1450  | 689   | 370  |
| 29    | 1030  | 25000 | 762   | 944   | ---   | 980   | 884   | 512    | 765   | 2100  | 540   | 314  |
| 30    | 1220  | 10000 | 745   | 1000  | ---   | 932   | 793   | 519    | 604   | 2500  | 462   | 291  |
| 31    | 924   | ---   | 733   | 1090  | ---   | 948   | ---   | 513    | ---   | 1200  | 413   | ---  |
| TOTAL | 35618 | 72239 | 46065 | 31632 | 80530 | 30100 | 31148 | 107451 | 17687 | 19243 | 18672 | 9972 |
| MEAN  | 1149  | 2408  | 1486  | 1020  | 2876  | 971   | 1038  | 3466   | 590   | 621   | 602   | 332  |
| MAX   | 7930  | 25000 | 5600  | 2100  | 5560  | 1480  | 1610  | 32100  | 1290  | 2500  | 1810  | 554  |
| MIN   | 134   | 549   | 733   | 726   | 1330  | 667   | 629   | 512    | 335   | 260   | 261   | 221  |
| CFM   | 1.44  | 3.02  | 1.86  | 1.28  | 3.60  | 1.22  | 1.30  | 4.34   | .74   | .78   | .75   | .42  |
| IN.   | 1.66  | 3.37  | 2.15  | 1.47  | 3.75  | 1.40  | 1.45  | 5.01   | .82   | .90   | .87   | .46  |

CAL YR 1984 TOTAL 563755 MEAN 1540 MAX 25000 MIN 134 CFM 1.93 IN 26.28  
WTR YR 1985 TOTAL 500357 MEAN 1371 MAX 32100 MIN 134 CFM 1.72 IN 23.32



## MOBILE RIVER BASIN

02439600 BUTTAHATCHEE RIVER NEAR KOLOLA SPRINGS, MS

LOCATION.--Lat 33 40 24 , long 88 25 45 , in SW sec.16, T.16 S., R.18 W., Huntsville Meridian, Lowndes County, Hydrologic Unit 03160103, at downstream side of bridge on U.S. Highway 45, 1.8 mi northwest of Kolola Springs, and at mile 8.6.

DRAINAGE AREA.--855 mi<sup>2</sup>.

PERIOD OF RECORD.--Water years 1963-64, 1977 to current year.

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(NTU) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) |
|--------------|------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|----------------------------------------------|------------------------------|-------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| NOV<br>20... | 1320 | 1030                                            | 28                                                | 5.8                            | 11.0                        | 32                                           | 11                           | 11.7                                | 105                                                            | 2.4                                                            |
| FEB<br>20... | 1300 | 1620                                            | 26                                                | 5.7                            | 8.0                         | 15                                           | 7.0                          | 11.6                                | 97                                                             | 2.0                                                            |
| JUN<br>05... | 1100 | 409                                             | 26                                                | 6.8                            | 27.5                        | 20                                           | 5.0                          | 7.1                                 | 90                                                             | 2.2                                                            |
| AUG<br>02... | 1245 | 479                                             | 32                                                | 6.6                            | 27.0                        | 10                                           | 20                           | 6.7                                 | 84                                                             | .6                                                             |

| DATE         | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | HARD-<br>NESS<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>AS<br>CAC03) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LINEITY<br>LAB<br>(MG/L<br>AS<br>CAC03) |
|--------------|----------------------------------------------------------------|----------------------------------------|--------------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|--------------------------------------------------|
| NOV<br>20... | 110                                                            | 16                                     | 9                                                            | 4.9                                          | .86                                                  | 1.7                                          | 18                | .2                                      | 1.1                                                 | 7.0                                              |
| FEB<br>20... | K12                                                            | 7                                      | 1                                                            | 1.8                                          | .67                                                  | 1.4                                          | 27                | .2                                      | .80                                                 | 6.0                                              |
| JUN<br>05... | K14                                                            | 10                                     | 1                                                            | 2.4                                          | 1.0                                                  | 2.2                                          | 29                | .3                                      | 1.2                                                 | 9.0                                              |
| AUG<br>02... | K29                                                            | 12                                     | 6                                                            | 3.8                                          | .73                                                  | 1.5                                          | 19                | .2                                      | 1.3                                                 | 7.0                                              |

| DATE         | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTI-<br>TUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N) |
|--------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|------------------------------------------------------|
| NOV<br>20... | 4.1                                           | 2.9                                                 | <.10                                               | 7.4                                               | 27                                                                 | 28                                                                  | .04                                                 | 75                                                | <.010                                                |
| FEB<br>20... | 4.0                                           | 2.5                                                 | <.10                                               | 6.1                                               | 22                                                                 | 21                                                                  | .03                                                 | 96                                                | <.010                                                |
| JUN<br>05... | 4.7                                           | 1.0                                                 | <.10                                               | 6.4                                               | 19                                                                 | 25                                                                  | .03                                                 | 21                                                | <.010                                                |
| AUG<br>02... | 3.4                                           | 2.2                                                 | <.10                                               | 7.1                                               | 29                                                                 | 25                                                                  | .04                                                 | 38                                                | <.010                                                |

| DATE         | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |
|--------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|------------------------------------------------------|--------------------------------------------|------------------------------------------------------|
| NOV<br>20... | .10                                                  | .150                                                 | .55                                                  | .70                                                                 | .80                                       | .010                                        | <.010                                                | 730                                        | 69                                                   |
| FEB<br>20... | .30                                                  | <.010                                                | --                                                   | .80                                                                 | 1.1                                       | <.010                                       | <.010                                                | 140                                        | 48                                                   |
| JUN<br>05... | .10                                                  | <.010                                                | --                                                   | .30                                                                 | .40                                       | <.010                                       | <.010                                                | 440                                        | 76                                                   |
| AUG<br>02... | .20                                                  | <.010                                                | --                                                   | .30                                                                 | .50                                       | <.010                                       | <.010                                                | 490                                        | 56                                                   |

## 02441000 TIBBEE CREEK NEAR TIBBEE, MS

LOCATION.--Lat 33°32'17", long 88°38'00", in SW¼ 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 Gulf, Mobile and Ohio 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>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1928 to September 1930, October 1939 to January 1981, February 1981 to current year (high water records 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 National Geodetic Vertical Datum of 1929 (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.--No estimated daily discharges. Records fair. Discharges below 500 ft<sup>3</sup>/s not determined. 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 above base 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) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Oct. 23 | 2045 | *31,700                           | *27.22              | Feb. 13 | 0300 | 16,400                            | 24.50               |

Minimum discharge, not determined.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT   | NOV  | DEC  | JAN  | FEB    | MAR  | APR  | MAY  | JUN  | JUL | AUG  | SEP  |
|-------|-------|------|------|------|--------|------|------|------|------|-----|------|------|
| 1     | ---   | ---  | 1510 | ---  | 3200   | 2240 | 2170 | 1860 | ---  | --- | ---  | ---  |
| 2     | ---   | 1440 | 1110 | ---  | 4820   | 1060 | 2390 | 5110 | ---  | --- | ---  | ---  |
| 3     | ---   | 2640 | 1950 | ---  | 3990   | 898  | 1050 | 7520 | ---  | --- | ---  | ---  |
| 4     | ---   | 2150 | 2600 | ---  | 2480   | 774  | 526  | 7160 | ---  | --- | ---  | ---  |
| 5     | ---   | 921  | 2580 | ---  | 1970   | 637  | ---  | 5330 | ---  | --- | ---  | ---  |
| 6     | ---   | ---  | 1330 | ---  | 3760   | 538  | 679  | 1800 | ---  | --- | ---  | ---  |
| 7     | ---   | ---  | 867  | ---  | 5760   | ---  | 675  | ---  | ---  | --- | ---  | ---  |
| 8     | ---   | ---  | 551  | ---  | 6170   | ---  | ---  | ---  | ---  | --- | ---  | ---  |
| 9     | ---   | ---  | ---  | ---  | 5810   | ---  | ---  | 580  | ---  | --- | ---  | ---  |
| 10    | ---   | ---  | ---  | ---  | 4160   | ---  | ---  | 569  | ---  | --- | ---  | 1250 |
| 11    | ---   | 595  | ---  | ---  | 4810   | ---  | ---  | ---  | ---  | --- | ---  | 1170 |
| 12    | ---   | ---  | ---  | ---  | 11300  | ---  | ---  | ---  | ---  | --- | ---  | ---  |
| 13    | ---   | ---  | ---  | ---  | 15500  | ---  | ---  | ---  | ---  | --- | ---  | ---  |
| 14    | ---   | ---  | ---  | ---  | 11700  | ---  | ---  | ---  | ---  | --- | ---  | ---  |
| 15    | ---   | ---  | ---  | ---  | 7020   | ---  | ---  | ---  | ---  | --- | ---  | ---  |
| 16    | ---   | 677  | ---  | ---  | 3380   | ---  | 584  | ---  | ---  | --- | ---  | ---  |
| 17    | ---   | 690  | ---  | 1910 | 1220   | ---  | ---  | ---  | ---  | --- | 700  | ---  |
| 18    | ---   | ---  | ---  | 3200 | 834    | ---  | ---  | ---  | 531  | --- | 1400 | ---  |
| 19    | ---   | ---  | ---  | 3780 | 690    | ---  | ---  | ---  | 1280 | --- | 1680 | ---  |
| 20    | ---   | 1300 | ---  | 3390 | 643    | ---  | ---  | ---  | 1030 | --- | 1070 | ---  |
| 21    | 612   | 1190 | ---  | 938  | 866    | ---  | ---  | ---  | ---  | --- | ---  | ---  |
| 22    | 2600  | ---  | ---  | ---  | 809    | 569  | ---  | ---  | ---  | --- | ---  | ---  |
| 23    | 20500 | ---  | ---  | ---  | 621    | 509  | ---  | ---  | ---  | --- | ---  | ---  |
| 24    | 25200 | ---  | ---  | ---  | 1480   | ---  | 1020 | ---  | ---  | --- | ---  | ---  |
| 25    | 12600 | ---  | ---  | ---  | 3320   | ---  | 1290 | ---  | ---  | --- | ---  | ---  |
| 26    | 6340  | ---  | ---  | ---  | 5590   | ---  | 717  | ---  | ---  | --- | ---  | ---  |
| 27    | 1990  | 720  | ---  | ---  | 6440   | ---  | 796  | ---  | ---  | 532 | ---  | ---  |
| 28    | ---   | 2490 | ---  | ---  | 4850   | ---  | 848  | ---  | ---  | 867 | ---  | ---  |
| 29    | ---   | 3540 | ---  | 509  | ---    | 533  | 600  | ---  | ---  | --- | ---  | ---  |
| 30    | ---   | 3210 | ---  | 632  | ---    | ---  | ---  | ---  | ---  | --- | ---  | ---  |
| 31    | ---   | ---  | ---  | 1430 | ---    | 905  | ---  | ---  | ---  | --- | ---  | ---  |
| TOTAL | ---   | ---  | ---  | ---  | 123193 | ---  | ---  | ---  | ---  | --- | ---  | ---  |
| MEAN  | ---   | ---  | ---  | ---  | 4400   | ---  | ---  | ---  | ---  | --- | ---  | ---  |
| MAX   | ---   | ---  | ---  | ---  | 15500  | ---  | ---  | ---  | ---  | --- | ---  | ---  |
| MIN   | ---   | ---  | ---  | ---  | 621    | ---  | ---  | ---  | ---  | --- | ---  | ---  |
| CFSM  | ---   | ---  | ---  | ---  | 4.75   | ---  | ---  | ---  | ---  | --- | ---  | ---  |
| IN.   | ---   | ---  | ---  | ---  | 4.95   | ---  | ---  | ---  | ---  | --- | ---  | ---  |

## MOBILE RIVER BASIN

02441000 TIBBEE CREEK NEAR TIBBEE, MS--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974-75, 1977-80, 1983 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(NTU) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) |
|--------------|------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|----------------------------------------------|------------------------------|-------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| NOV<br>20... | 1520 | 1400                                            | 150                                               | 6.8                            | 11.5                        | 110                                          | 100                          | 9.9                                 | 96                                                             | 4.9                                                            |
| FEB<br>20... | 1500 | 600                                             | 178                                               | 7.1                            | 9.5                         | 30                                           | 35                           | 10.9                                | 95                                                             | 2.5                                                            |
| JUN<br>05... | 1300 | 93                                              | 268                                               | 8.6                            | 31.5                        | 5                                            | 3.0                          | 10.8                                | 147                                                            | 3.8                                                            |
| AUG<br>02... | 1430 | 387                                             | 212                                               | 7.5                            | 29.0                        | 20                                           | 45                           | 6.2                                 | 81                                                             | 4.6                                                            |

| DATE         | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>AS CACO3) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LITY<br>LAB<br>(MG/L<br>AS<br>CACO3) |
|--------------|----------------------------------------------------------------|----------------------------------------|-----------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|-----------------------------------------------|
| NOV<br>20... | K7700                                                          | 69                                     | 11                                                        | 25                                           | 1.5                                                  | 3.3                                          | 9                 | .2                                      | 3.2                                                 | 58                                            |
| FEB<br>20... | 190                                                            | 78                                     | 16                                                        | 28                                           | 2.0                                                  | 4.8                                          | 12                | .2                                      | 1.6                                                 | 62                                            |
| JUN<br>05... | K9                                                             | 110                                    | 8                                                         | 41                                           | 2.4                                                  | 6.6                                          | 11                | .3                                      | 2.0                                                 | 104                                           |
| AUG<br>02... | 100                                                            | 94                                     | 10                                                        | 35                                           | 1.7                                                  | 4.5                                          | 9                 | .2                                      | 2.5                                                 | 85                                            |

| DATE         | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTI-<br>TUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | NITRO-<br>GEN,<br>NITRATE<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N) |
|--------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| NOV<br>20... | 14                                            | 6.5                                                 | .10                                                | 5.8                                               | 107                                                                | 94                                                                  | .15                                                 | 404                                               | .16                                                  | .040                                                 |
| FEB<br>20... | 21                                            | 5.8                                                 | <.10                                               | 6.2                                               | 101                                                                | 110                                                                 | .14                                                 | 164                                               | .08                                                  | .020                                                 |
| JUN<br>05... | 16                                            | 10                                                  | .30                                                | 5.0                                               | 160                                                                | 150                                                                 | .22                                                 | 40                                                | --                                                   | <.010                                                |
| AUG<br>02... | 12                                            | 6.0                                                 | .30                                                | 6.0                                               | 135                                                                | 120                                                                 | .18                                                 | 141                                               | --                                                   | <.010                                                |

| DATE         | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |
|--------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|------------------------------------------------------|--------------------------------------------|------------------------------------------------------|
| NOV<br>20... | .20                                                  | .190                                                 | .21                                                  | .40                                                                 | .60                                       | .160                                        | .050                                                 | 74                                         | 31                                                   |
| FEB<br>20... | .10                                                  | <.010                                                | --                                                   | 1.7                                                                 | 1.8                                       | .040                                        | <.010                                                | 74                                         | 46                                                   |
| JUN<br>05... | <.10                                                 | .010                                                 | .29                                                  | .30                                                                 | --                                        | .050                                        | <.010                                                | 13                                         | 14                                                   |
| AUG<br>02... | <.10                                                 | <.010                                                | --                                                   | .90                                                                 | --                                        | .040                                        | <.010                                                | 26                                         | 9                                                    |

## MOBILE RIVER BASIN

02441000 TIBBEE CREEK NEAR TIBBEE, MS--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS) | ARSENIC<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS AS) | CADMIUM<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD) | CADMIUM<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CD) | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR) | CHRO-<br>MIUM,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G) | COBALT,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CO) | COBALT,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CO) | COPPER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU) |
|--------------|-------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------|
| AUG<br>02... | 1                                   | <1                                                                  | <1                                                      | <1                                                                   | 8                                                              | 10                                                                 | 1                                                       | 10                                                                   | 3                                                       |

| DATE         | COPPER,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CU) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB) | LEAD,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS PB) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) | MERCURY<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS HG) | NICKEL,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS NI) | NICKEL,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS NI) | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN) | ZINC,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS ZN) |
|--------------|----------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------|
| AUG<br>02... | 7                                                                    | 5                                                     | 20                                                                 | .2                                                      | .06                                                                  | 11                                                      | 10                                                                   | 10                                                    | 30                                                                 |

## PESTICIDE ANALYSES, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | PCB,<br>TOTAL<br>(UG/L) | PCB,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | NAPH-<br>THA-<br>LENES,<br>POLY-<br>CHLOR.<br>TOTAL<br>(UG/L) | PCN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | ALDRIN,<br>TOTAL<br>(UG/L) | ALDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | CHLOR-<br>DANE,<br>TOTAL<br>(UG/L) | CHLOR-<br>DANE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | DDD,<br>TOTAL<br>(UG/L) | DDD,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) |
|--------------|-------------------------|----------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------|----------------------------|-------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------|-------------------------|----------------------------------------------------------|
| AUG<br>02... | <.1                     | <1                                                       | <.10                                                          | <1.0                                                     | <.010                      | <.1                                                         | <.1                                | <1.0                                                                | <.010                   | 1.4                                                      |

| DATE         | DDE,<br>TOTAL<br>(UG/L) | DDE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | DDT,<br>TOTAL<br>(UG/L) | DDT,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | DI-<br>ELDRIN<br>TOTAL<br>(UG/L) | DI-<br>ELDRIN<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | ENDO-<br>SULFAN,<br>TOTAL<br>(UG/L) | ENDO-<br>SULFAN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | ENDRIN,<br>TOTAL<br>(UG/L) | ENDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) |
|--------------|-------------------------|----------------------------------------------------------|-------------------------|----------------------------------------------------------|----------------------------------|-------------------------------------------------------------------|-------------------------------------|----------------------------------------------------------------------|----------------------------|-------------------------------------------------------------|
| AUG<br>02... | <.010                   | 4.3                                                      | <.010                   | <.1                                                      | <.010                            | .1                                                                | <.010                               | <.1                                                                  | <.010                      | <.1                                                         |

| DATE         | HEPTA-<br>CHLOR,<br>TOTAL<br>(UG/L) | HEPTA-<br>CHLOR,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOTAL<br>(UG/L) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG) | LINDANE<br>TOTAL<br>(UG/L) | LINDANE<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>(UG/L) | METH-<br>OXY-<br>CHLOR,<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG) | MIREX,<br>TOTAL<br>(UG/L) |
|--------------|-------------------------------------|----------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------|----------------------------|-------------------------------------------------------------|--------------------------------------------|------------------------------------------------------------------|---------------------------|
| AUG<br>02... | <.010                               | <.1                                                                  | <.010                                         | .1                                                                  | <.010                      | <.1                                                         | <.01                                       | <.1                                                              | <.01                      |

| DATE         | MIREX,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | PER-<br>THANE<br>TOTAL<br>(UG/L) | PER-<br>THANE<br>IN<br>BOTTOM<br>MATERIAL<br>(UG/KG) | TOX-<br>APHENE,<br>TOTAL<br>(UG/L) | TOXA-<br>PHENE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | 2,4-D,<br>TOTAL<br>(UG/L) | 2, 4-DP<br>TOTAL<br>(UG/L) | 2,4,5-T<br>TOTAL<br>(UG/L) | SILVEX,<br>TOTAL<br>(UG/L) |
|--------------|------------------------------------------------------------|----------------------------------|------------------------------------------------------|------------------------------------|---------------------------------------------------------------------|---------------------------|----------------------------|----------------------------|----------------------------|
| AUG<br>02... | .3                                                         | <.1                              | <1.00                                                | <1                                 | <10                                                                 | .07                       | .09                        | <.01                       | <.01                       |



## MOBILE RIVER BASIN

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

LOCATION.--Lat 33°31'05", long 88°29'19", in NE¼ 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>.

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 National Geodetic Vertical Datum of 1929 (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).

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 NGVD of 1929 and 110 ft by 600 ft lock with maximum lift of 27 ft at normal pool elevation of 163.0 ft above NGVD of 1929. 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.

AVERAGE DISCHARGE.--70 years, 6,643 ft<sup>3</sup>/s, 20.32 in/yr.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 8, 1892, the greatest since at least 1867, reached an elevation of 173.0 ft above NGVD of 1929 at site 3.93 mi downstream, discharge 278,000 ft<sup>3</sup>/s estimated by U. S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 56,800 ft<sup>3</sup>/s, May 4, gage height 63.48 ft; minimum daily discharge, 125 ft<sup>3</sup>/s, Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 1     | 165    | 3110   | 12200  | 3430   | 21400  | 9460   | 9480   | 19200  | 2630  | 2230  | 1910  | 1590  |
| 2     | 125    | 6400   | 13700  | 2690   | 14900  | 6310   | 8030   | 39500  | 501   | 1270  | 2230  | 790   |
| 3     | 217    | 5430   | 14800  | 3570   | 11900  | 5620   | 5580   | 42200  | 1980  | 1930  | 2130  | 1640  |
| 4     | 449    | 5240   | 10100  | 4090   | 10200  | 5510   | 4290   | 52700  | 1990  | 1240  | 1380  | 1140  |
| 5     | 642    | 2680   | 9450   | 3810   | 14700  | 4890   | 4860   | 35400  | 571   | 1590  | 1450  | 2130  |
| 6     | 427    | 4120   | 8040   | 3660   | 26100  | 4700   | 5290   | 18000  | 1300  | 1560  | 2020  | 1530  |
| 7     | 344    | 1570   | 5450   | 3310   | 22400  | 3880   | 4160   | 10500  | 1640  | 1320  | 2460  | 1470  |
| 8     | 338    | 2130   | 4550   | 3420   | 18700  | 3750   | 4700   | 11600  | 1560  | 1800  | 2080  | 1350  |
| 9     | 1020   | 1560   | 3780   | 3260   | 18600  | 3530   | 3780   | 17800  | 651   | 1170  | 2000  | 6120  |
| 10    | 437    | 2540   | 3460   | 3010   | 19300  | 3570   | 3480   | 10600  | 2920  | 1470  | 664   | 3180  |
| 11    | 463    | 3110   | 3490   | 3770   | 35200  | 3320   | 3260   | 8450   | 1310  | 454   | 1720  | 3540  |
| 12    | 972    | 3080   | 4060   | 2690   | 46100  | 3550   | 3010   | 7690   | 2860  | 1520  | 1000  | 1500  |
| 13    | 846    | 2230   | 3130   | 1690   | 35000  | 2610   | 2940   | 5860   | 2330  | 1130  | 1390  | 905   |
| 14    | 285    | 1970   | 3280   | 2310   | 31500  | 3220   | 3020   | 5000   | 2070  | 497   | 1030  | 1210  |
| 15    | 204    | 2190   | 2730   | 2910   | 26100  | 2290   | 3830   | 3780   | 732   | 1040  | 1300  | 794   |
| 16    | 441    | 3260   | 2760   | 3340   | 18100  | 2460   | 4630   | 4020   | 3550  | 3120  | 2480  | 878   |
| 17    | 3260   | 2990   | 2960   | 17700  | 11700  | 2660   | 4310   | 2690   | 778   | 1580  | 13800 | 966   |
| 18    | 1390   | 2880   | 2830   | 11300  | 8640   | 2390   | 4010   | 2340   | 7300  | 1170  | 6060  | 496   |
| 19    | 1510   | 10700  | 2780   | 10400  | 6740   | 2440   | 3080   | 2440   | 5150  | 1350  | 5700  | 583   |
| 20    | 1270   | 7780   | 2740   | 9300   | 7500   | 2810   | 3040   | 2560   | 3660  | 1630  | 4740  | 1100  |
| 21    | 4500   | 6330   | 2530   | 5540   | 5190   | 2820   | 2290   | 2250   | 2550  | 1570  | 3130  | 621   |
| 22    | 22500  | 5360   | 2840   | 4090   | 5930   | 7140   | 2520   | 2390   | 2390  | 1090  | 2010  | 955   |
| 23    | 34500  | 4620   | 2330   | 3540   | 5670   | 5490   | 2410   | 2290   | 1830  | 630   | 1550  | 1560  |
| 24    | 36500  | 3790   | 2960   | 3640   | 15100  | 5080   | 13700  | 1940   | 2550  | 2560  | 1930  | 2430  |
| 25    | 26400  | 3070   | 2450   | 3970   | 18400  | 4530   | 12100  | 2630   | 1090  | 1370  | 2890  | 638   |
| 26    | 19200  | 2380   | 3110   | 3020   | 17400  | 4050   | 7700   | 1390   | 1500  | 2490  | 4300  | 1270  |
| 27    | 10600  | 7540   | 2470   | 2980   | 15900  | 3680   | 9430   | 2340   | 1900  | 5520  | 2590  | 2360  |
| 28    | 5060   | 18400  | 2840   | 3530   | 13400  | 4770   | 8210   | 2050   | 2460  | 3860  | 2010  | 248   |
| 29    | 3570   | 11200  | 2360   | 4690   | ---    | 4290   | 5890   | 1390   | 1640  | 3870  | 1900  | 190   |
| 30    | 2280   | 10400  | 2560   | 5380   | ---    | 3370   | 4280   | 1130   | 1490  | 1530  | 1380  | 1440  |
| 31    | 2850   | ---    | 2280   | 8720   | ---    | 9350   | ---    | 2870   | ---   | 2540  | 1540  | ---   |
| TOTAL | 182765 | 148060 | 145020 | 148760 | 501770 | 133540 | 157310 | 325000 | 64883 | 56101 | 82774 | 44624 |
| MEAN  | 5896   | 4935   | 4678   | 4799   | 17920  | 4308   | 5244   | 10480  | 2163  | 1810  | 2670  | 1487  |
| MAX   | 36500  | 18400  | 14800  | 17700  | 46100  | 9460   | 13700  | 52700  | 7300  | 5520  | 13800 | 6120  |
| MIN   | 125    | 1560   | 2280   | 1690   | 5190   | 2290   | 2290   | 1130   | 501   | 454   | 664   | 190   |
| CFSM  | 1.33   | 1.11   | 1.05   | 1.08   | 4.04   | .97    | 1.18   | 2.36   | .49   | .41   | .60   | .34   |
| IN.   | 1.53   | 1.24   | 1.22   | 1.25   | 4.20   | 1.12   | 1.32   | 2.72   | .54   | .47   | .69   | .37   |

CAL YR 1984 TOTAL 2490805 MEAN 6805 MAX 50000 MIN 120 CFSM 1.53 IN 20.87  
WTR YR 1985 TOTAL 1990607 MEAN 5454 MAX 52700 MIN 125 CFSM 1.23 IN 16.68

## MOBILE RIVER BASIN

02441391 TOMBIGBEE RIVER BELOW COLUMBUS LOCK AND DAM, MS

LOCATION.--Lat 33 31 04 , Long 88 29 22 , in NE sec.11, T.18 S., R.19 W., Huntsville Meridian, Lowndes County,  
Hydrologic Unit 03160101, 800 ft downstream from spillway, 3.5 mi northwest of Columbus, and at mile 325.2.

DRAINAGE AREA.--4,440 mi<sup>2</sup>.

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(NTU) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) |
|--------------|------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|----------------------------------------------|------------------------------|-------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| NOV<br>20... | 1400 | 8300                                            | 150                                               | 7.8                            | 12.0                        | 31                                           | 30                           | 11.5                                | --                                                             | 3.4                                                            |
| FEB<br>21... | 1500 | 5500                                            | 67                                                | 7.0                            | 9.0                         | 40                                           | 30                           | 12.0                                | 103                                                            | 2.6                                                            |
| MAY<br>22... | 1330 | 641                                             | 102                                               | 7.7                            | 25.0                        | 35                                           | 16                           | 8.9                                 | 108                                                            | 2.8                                                            |
| AUG<br>02... | 1430 | 2070                                            | 123                                               | 7.5                            | 29.5                        | 20                                           | 15                           | 8.5                                 | 112                                                            | 1.2                                                            |

| DATE         | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CACO3) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LITY<br>LAB<br>(MG/L<br>AS<br>CACO3) |
|--------------|----------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|-----------------------------------------------|
| NOV<br>20... | --                                                             | 62                                     | 10                                                     | 22                                           | 1.6                                                  | 6.6                                          | 18                | .4                                      | 2.5                                                 | 52                                            |
| FEB<br>21... | K31                                                            | 32                                     | 10                                                     | 11                                           | 1.0                                                  | 2.6                                          | 14                | .2                                      | 1.4                                                 | 22                                            |
| MAY<br>22... | K9                                                             | 42                                     | 9                                                      | 15                                           | 1.2                                                  | 3.0                                          | 13                | .2                                      | 1.5                                                 | 33                                            |
| AUG<br>02... | <2                                                             | 46                                     | 11                                                     | 16                                           | 1.5                                                  | 5.1                                          | 19                | .3                                      | 1.9                                                 | 35                                            |

| DATE         | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTITUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | NITRO-<br>GEN,<br>NITRATE<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N) |
|--------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| NOV<br>20... | 14                                            | 9.2                                                 | .10                                                | 7.0                                               | 100                                                                | 94                                                             | .14                                                 | 2240                                              | .37                                                  | .030                                                 |
| FEB<br>21... | 8.6                                           | 4.2                                                 | <.10                                               | 5.5                                               | 52                                                                 | 48                                                             | .07                                                 | 772                                               | .18                                                  | .020                                                 |
| MAY<br>22... | 7.9                                           | 5.7                                                 | <.10                                               | 6.0                                               | 65                                                                 | 60                                                             | .09                                                 | 112                                               | --                                                   | <.010                                                |
| AUG<br>02... | 7.9                                           | 11                                                  | <.10                                               | 3.9                                               | 78                                                                 | 68                                                             | .11                                                 | 436                                               | --                                                   | <.010                                                |

| DATE         | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |
|--------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|------------------------------------------------------|--------------------------------------------|------------------------------------------------------|
| NOV<br>20... | .40                                                  | .210                                                 | .09                                                  | .30                                                                 | .70                                       | .110                                        | .020                                                 | 270                                        | 27                                                   |
| FEB<br>21... | .20                                                  | <.010                                                | --                                                   | .60                                                                 | .80                                       | <.010                                       | <.010                                                | 69                                         | 93                                                   |
| MAY<br>22... | .10                                                  | .120                                                 | .38                                                  | .50                                                                 | .60                                       | .030                                        | <.010                                                | 210                                        | 5                                                    |
| AUG<br>02... | <.10                                                 | <.010                                                | --                                                   | .50                                                                 | --                                        | <.010                                       | <.010                                                | 89                                         | 4                                                    |

## MOBILE RIVER BASIN

02441391 TOMBIGBEE RIVER BELOW COLUMBUS LOCK AND DAM, MS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS) | ARSENIC<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS AS) | CADMIUM<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD) | CADMIUM<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CD) | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR) | CHRO-<br>MIUM,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CO) | COBALT,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CO) | COBALT,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CO) | COPPER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU) |
|--------------|-------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------|
| AUG<br>02... | 1                                   | <1                                                                  | <1                                                      | <1                                                                   | 5                                                              | 5                                                                           | 1                                                       | <10                                                                  | 2                                                       |

| DATE         | COPPER,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CU) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB) | LEAD,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS PB) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) | MERCURY<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS HG) | NICKEL,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS NI) | NICKEL,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS NI) | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN) | ZINC,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS ZN) |
|--------------|----------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------|
| AUG<br>02... | 4                                                                    | 2                                                     | <10                                                                | <.1                                                     | .03                                                                  | 6                                                       | <10                                                                  | 50                                                    | 20                                                                 |

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | PCB,<br>TOTAL<br>(UG/L) | PCB,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | NAPH-<br>THA-<br>LENES,<br>POLY-<br>CHLOR.<br>TOTAL<br>(UG/L) | PCN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | ALDRIN,<br>TOTAL<br>(UG/L) | ALDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | CHLOR-<br>DANE,<br>TOTAL<br>(UG/L) | CHLOR-<br>DANE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | DDD,<br>TOTAL<br>(UG/L) | DDD,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) |
|--------------|-------------------------|----------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------|----------------------------|-------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------|-------------------------|----------------------------------------------------------|
| AUG<br>02... | <.1                     | 1                                                        | <.10                                                          | <1.0                                                     | <.010                      | <.1                                                         | <.1                                | 1.0                                                                 | <.010                   | 1.2                                                      |

| DATE         | DDE,<br>TOTAL<br>(UG/L) | DDE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | DDT,<br>TOTAL<br>(UG/L) | DDT,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | DI-<br>ELDRIN,<br>TOTAL<br>(UG/L) | DI-<br>ELDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | ENDO-<br>SULFAN,<br>TOTAL<br>(UG/L) | ENDO-<br>SULFAN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | ENDRIN,<br>TOTAL<br>(UG/L) | ENDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) |
|--------------|-------------------------|----------------------------------------------------------|-------------------------|----------------------------------------------------------|-----------------------------------|--------------------------------------------------------------------|-------------------------------------|----------------------------------------------------------------------|----------------------------|-------------------------------------------------------------|
| AUG<br>02... | <.010                   | 4.2                                                      | <.010                   | <.1                                                      | <.010                             | <.1                                                                | <.010                               | <.1                                                                  | <.010                      | <.1                                                         |

| DATE         | HEPTA-<br>CHLOR,<br>TOTAL<br>(UG/L) | HEPTA-<br>CHLOR,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | HEPTA-<br>CHLOR,<br>EPOXIDE<br>TOTAL<br>(UG/L) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG) | LINDANE<br>TOTAL<br>(UG/L) | LINDANE<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>(UG/L) | METH-<br>OXY-<br>CHLOR,<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG) | MIREX,<br>TOTAL<br>(UG/L) |
|--------------|-------------------------------------|----------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------|----------------------------|-------------------------------------------------------------|--------------------------------------------|------------------------------------------------------------------|---------------------------|
| AUG<br>02... | <.010                               | <.1                                                                  | <.010                                          | <.1                                                                 | <.010                      | <.1                                                         | <.01                                       | <.1                                                              | <.01                      |

| DATE         | MIREX,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | PER-<br>THANE<br>TOTAL<br>(UG/L) | PER-<br>THANE<br>IN<br>BOTTOM<br>MATERIAL<br>(UG/KG) | TOX-<br>APHENE,<br>TOTAL<br>(UG/L) | TOXA-<br>PHENE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | 2,4-D,<br>TOTAL<br>(UG/L) | 2, 4-DP<br>TOTAL<br>(UG/L) | 2,4,5-T<br>TOTAL<br>(UG/L) | SILVEX,<br>TOTAL<br>(UG/L) |
|--------------|------------------------------------------------------------|----------------------------------|------------------------------------------------------|------------------------------------|---------------------------------------------------------------------|---------------------------|----------------------------|----------------------------|----------------------------|
| AUG<br>02... | .5                                                         | <.1                              | <1.00                                                | <1                                 | <10                                                                 | .05                       | <.01                       | <.01                       | <.01                       |

## MOBILE RIVER BASIN

02441391 TOMBIGBEE RIVER BELOW COLUMBUS LOCK AND DAM, MS--Continued

SPECTROGRAPHIC ANALYSES, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

|              | ACE-<br>NAPHTH-<br>ENE<br>TOTAL<br>(UG/L)                 | ACE-<br>NAPHTH-<br>ENE<br>BOT.MAT<br>(UG/KG)                           | ACE-<br>NAPHTH-<br>YLENE<br>TOTAL<br>(UG/L)                               | ACE-<br>NAPHTH-<br>YLENE<br>BOT.MAT<br>(UG/KG)                       | ANTHRA-<br>CENE<br>TOTAL<br>(UG/L)                    | ANTHRA-<br>CENE<br>BOT.MAT<br>(UG/KG)                        | BENZO A<br>ANTHRAC<br>ENE1,2-<br>BENZANT<br>HRACENE<br>TOTAL<br>(UG/L) | BENZO A<br>ANTHRAC<br>ENE1,2-<br>BENZANT<br>HRACENE<br>BOT.MAT<br>(UG/KG) | BENZO B<br>FLUOR-<br>AN-<br>THENE<br>TOTAL<br>(UG/L)              | BENZO B<br>FLUOR-<br>AN-<br>THENE<br>BOT.MAT<br>(UG/KG)        | BENZO K<br>FLUOR-<br>AN-<br>THENE<br>TOTAL<br>(UG/L)              |
|--------------|-----------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------|
| AUG<br>02... | <5.0                                                      | <200                                                                   | <5.0                                                                      | <200                                                                 | <5.0                                                  | <200                                                         | <5.0                                                                   | <200                                                                      | <10.0                                                             | <400                                                           | <10.0                                                             |
|              | BENZO K<br>FLUOR-<br>AN-<br>THENE<br>BOT.MAT<br>(UG/KG)   | BENZOGH<br>I PERYL<br>ENE1,12<br>-BENZOP<br>ERYLENE<br>TOTAL<br>(UG/L) | BENZOGH<br>I PERYL<br>ENE1,12<br>-BENZOP<br>ERYLENE<br>BOT.MAT<br>(UG/KG) | BENZO-<br>A-<br>PYRENE<br>TOTAL<br>(UG/L)                            | BENZO-<br>A-<br>PYRENE<br>BOT.MAT<br>(UG/KG)          | 4-<br>BROMO-<br>PHENYL<br>PHENYL<br>ETHER<br>TOTAL<br>(UG/L) | 4-<br>BROMO-<br>PHENYL<br>PHENYL<br>ETHER<br>BOT.MAT<br>(UG/KG)        | N-BUTYL<br>BENZYL<br>PHTHAL-<br>ATE<br>TOTAL<br>(UG/L)                    | N-BUTYL<br>BENZYL<br>PHTHAL-<br>ATE<br>BOT.MAT<br>(UG/KG)         | BIS<br>(2-<br>CHLORO-<br>ETHOXY)<br>METHANE<br>TOTAL<br>(UG/L) | BIS<br>(2-<br>CHLORO-<br>ETHOXY)<br>METHANE<br>BOT.MAT<br>(UG/KG) |
| AUG<br>02... | <400                                                      | <10.0                                                                  | <400                                                                      | <10.0                                                                | <400                                                  | <5.0                                                         | <200                                                                   | <5.0                                                                      | <200                                                              | <5.0                                                           | <200                                                              |
|              | BIS<br>2-<br>CHLORO-<br>ETHYL<br>ETHER<br>TOTAL<br>(UG/L) | BIS<br>(2-<br>CHLORO-<br>ETHYL<br>ETHER<br>BOT.MAT<br>(UG/KG)          | BIS (2-<br>CHLORO-<br>ISO-<br>PROPYL)<br>ETHER<br>TOTAL<br>(UG/L)         | BIS (2-<br>CHLORO-<br>ISO-<br>PROPYL)<br>ETHER<br>BOT.MAT<br>(UG/KG) | 2-<br>CHLORO-<br>NAPH-<br>THALENE<br>TOTAL<br>(UG/L)  | 2-<br>CHLORO-<br>NAPH-<br>THALENE<br>BOT.MAT<br>(UG/KG)      | 4-<br>CHLORO-<br>PHENYL<br>PHENYL<br>ETHER<br>TOTAL<br>(UG/L)          | CHRY-<br>SENE<br>TOTAL<br>(UG/L)                                          | CHRY-<br>SENE<br>BOT.MAT<br>(UG/KG)                               | 1,2,5,6<br>-DIBENZ<br>-ANTHRA<br>-CENE<br>TOTAL<br>(UG/L)      | 1,2,5,6<br>-DIBENZ<br>-ANTHRA<br>-CENE<br>BOT.MAT<br>(UG/KG)      |
| AUG<br>02... | <5.0                                                      | <200                                                                   | <5.0                                                                      | <200                                                                 | <5.0                                                  | <200                                                         | <5.0                                                                   | <10.0                                                                     | <400                                                              | <10.0                                                          | <400                                                              |
|              | 1,2-DI-<br>CHLORO-<br>BENZENE<br>TOTAL<br>(UG/L)          | 1,2-DI-<br>CHLORO-<br>BENZENE<br>BOT.MAT<br>(UG/KG)                    | 1,3-DI-<br>CHLORO-<br>BENZENE<br>TOTAL<br>(UG/L)                          | 1,3-DI-<br>CHLORO-<br>BENZENE<br>BOT.MAT<br>(UG/KG)                  | 1,4-DI-<br>CHLORO-<br>BENZENE<br>TOTAL<br>(UG/L)      | 1,4-DI-<br>CHLORO-<br>BENZENE<br>BOT.MAT<br>(UG/KG)          | DIETHYL<br>PHTHAL-<br>ATE<br>TOTAL<br>(UG/L)                           | DIETHYL<br>PHTHAL-<br>ATE<br>BOT.MAT<br>(UG/KG)                           | DI-<br>METHYL<br>PHTHAL-<br>ATE<br>TOTAL<br>(UG/L)                | DI-<br>METHYL<br>PHTHAL-<br>ATE<br>BOT.MAT<br>(UG/KG)          | DI-N-<br>BUTYL<br>PHTHAL-<br>ATE<br>TOTAL<br>(UG/L)               |
| AUG<br>02... | <5.0                                                      | <200                                                                   | <5.0                                                                      | <200                                                                 | <5.0                                                  | <200                                                         | <5.0                                                                   | <200                                                                      | <5.0                                                              | <200                                                           | <5.0                                                              |
|              | DI-N-<br>BUTYL<br>PHTHAL-<br>ATE<br>BOT.MAT<br>(UG/KG)    | 2,4-DI-<br>NITRO-<br>TOLUENE<br>TOTAL<br>(UG/L)                        | 2,4-DI-<br>NITRO-<br>TOLUENE<br>BOT.MAT<br>(UG/KG)                        | 2,6-DI-<br>NITRO-<br>TOLUENE<br>TOTAL<br>(UG/L)                      | 2,6-DI-<br>NITRO-<br>TOLUENE<br>BOT.MAT<br>(UG/KG)    | DI-N-<br>OCTYL<br>PHTHAL-<br>ATE<br>TOTAL<br>(UG/L)          | DI-N-<br>OCTYL<br>PHTHAL-<br>ATE<br>BOT.MAT<br>(UG/KG)                 | BIS(2-<br>ETHYL<br>HEXYL)<br>PHTHAL-<br>ATE<br>TOTAL<br>(UG/L)            | BIS(2-<br>ETHYL<br>HEXYL)<br>PHTHAL-<br>ATE<br>BOT.MAT<br>(UG/KG) | FLUOR-<br>ANTHENE<br>TOTAL<br>(UG/L)                           | FLUOR-<br>ANTHENE<br>BOT.MAT<br>(UG/KG)                           |
| AUG<br>02... | <200                                                      | <5.0                                                                   | <200                                                                      | <5.0                                                                 | <200                                                  | <10.0                                                        | <400                                                                   | <35.0                                                                     | <200                                                              | <5.0                                                           | <200                                                              |
|              | FLUOR-<br>ENE<br>TOTAL<br>(UG/L)                          | FLUOR-<br>ENE<br>BOT.MAT<br>(UG/L)                                     | HEXA-<br>CHLORO-<br>BENZENE<br>TOTAL<br>(UG/L)                            | HEXA-<br>CHLORO-<br>BENZENE<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG) | HEXA-<br>CHLORO-<br>BUT-<br>ADIENE<br>TOTAL<br>(UG/L) | HEXA-<br>CHLORO-<br>BUT-<br>ADIENE<br>BOT.MAT<br>(UG/KG)     | HEXA-<br>CHLORO-<br>CYCLO-<br>PENT-<br>ADIENE<br>TOTAL<br>(UG/L)       | HEXA-<br>CHLORO-<br>CYCLO-<br>PENT-<br>ADIENE<br>BOT.MAT<br>(UG/KG)       | HEXA-<br>CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L)                     | HEXA-<br>CHLORO-<br>ETHANE<br>BOT.MAT<br>(UG/KG)               |                                                                   |
| AUG<br>02... | <5.0                                                      | <200                                                                   | <5.0                                                                      | <200                                                                 | <5.0                                                  | <200                                                         | <5.0                                                                   | <200                                                                      | <5.0                                                              | <200                                                           |                                                                   |



SPECTROGRAPHIC ANALYSES, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

[illegible]

## MOBILE RIVER BASIN

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02441500 TOMBIGBEE RIVER AT COLUMBUS, MS

LOCATION.--Lat 33°29'21", long 88°25'57", in NE¼ 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>.

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 National Geodetic Vertical Datum of 1929. 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 gage at 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 NGVD of 1929.

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

AVERAGE DISCHARGE.--See 02441390 Tombigbee River at Columbus Lock and Dam, near Columbus.

EXTREMES FOR PERIOD OF RECORD.--See 02441390.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 8, 1892, the greatest since at least 1867, reached an elevation of 173.0 ft above NGVD 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, 22.48 ft, May 4; minimum, 6.97 ft, Oct. 5.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1     | 7.22   | 7.54   | 10.89  | 7.73   | 12.99  | 9.41   | 9.19   | 11.74  | 7.57   | 7.53   | 7.47   | 7.42   |
| 2     | 7.21   | 8.31   | 10.83  | 7.62   | 12.37  | 8.45   | 8.62   | 17.32  | 7.30   | 7.42   | 7.49   | 7.47   |
| 3     | 7.18   | 8.10   | 11.48  | 7.69   | 11.25  | 8.24   | 8.22   | 18.93  | 7.42   | 7.49   | 7.43   | 7.57   |
| 4     | 7.10   | 7.88   | 9.95   | 7.86   | 10.28  | 8.28   | 7.96   | 22.08  | 7.44   | 7.42   | 7.41   | 7.43   |
| 5     | 7.13   | 7.10   | 9.66   | 7.81   | 11.07  | 7.93   | 8.00   | 18.20  | 7.32   | 7.46   | 7.59   | 7.53   |
| 6     | 7.25   | 7.12   | 9.07   | 7.74   | 14.90  | 7.86   | 8.14   | 12.57  | 7.43   | 7.46   | 7.43   | 7.41   |
| 7     | 7.28   | 7.19   | 8.55   | 7.75   | 14.41  | 7.90   | 7.80   | 9.58   | 7.43   | 7.42   | 7.42   | 7.38   |
| 8     | 7.32   | 7.58   | 8.15   | 7.69   | 12.68  | 7.91   | 7.93   | 9.82   | 7.42   | 7.48   | 7.48   | 7.46   |
| 9     | 7.42   | 7.56   | 7.87   | 7.68   | 12.31  | 7.70   | 7.77   | 11.29  | 7.36   | 7.40   | 7.44   | 8.21   |
| 10    | 7.24   | 7.58   | 7.72   | 7.66   | 12.29  | 7.73   | 7.77   | 9.30   | 7.61   | 7.43   | 7.42   | 7.65   |
| 11    | 7.29   | 7.49   | 7.85   | 7.66   | 15.54  | 7.73   | 7.55   | 8.79   | 7.51   | 7.41   | 7.39   | 7.64   |
| 12    | 7.41   | 7.57   | 7.83   | 7.53   | 19.35  | 7.77   | 7.66   | 8.59   | 7.81   | 7.45   | 7.47   | 7.39   |
| 13    | 7.43   | 7.50   | 7.66   | 7.48   | 17.51  | 7.61   | 7.60   | 8.20   | 7.63   | 7.39   | 7.39   | 7.36   |
| 14    | 7.37   | 7.44   | 7.69   | 7.53   | 16.09  | 7.64   | 7.66   | 7.92   | 7.54   | 7.38   | 7.46   | 7.38   |
| 15    | 7.41   | 7.51   | 7.68   | 7.92   | 14.71  | 7.55   | 7.75   | 7.77   | 7.46   | 7.43   | 7.94   | 7.38   |
| 16    | 7.43   | 7.67   | 7.68   | 7.72   | 12.36  | 7.61   | 7.87   | 7.72   | 7.64   | 7.58   | 9.67   | 7.38   |
| 17    | 7.69   | 7.57   | 7.64   | 11.03  | 10.12  | 7.52   | 7.84   | 7.56   | 7.45   | 7.42   | 8.02   | 7.47   |
| 18    | 7.68   | 7.62   | 7.62   | 10.02  | 9.09   | 7.56   | 7.81   | 7.50   | 8.46   | 7.47   | 8.04   | 7.34   |
| 19    | 7.73   | 9.00   | 7.62   | 9.61   | 8.47   | 7.60   | 7.68   | 7.58   | 8.11   | 7.45   | 7.77   | 7.44   |
| 20    | 7.68   | 8.68   | 7.63   | 9.25   | 8.61   | 7.62   | 7.67   | 7.56   | 7.74   | 7.47   | 7.60   | 7.36   |
| 21    | 8.06   | 8.26   | 7.64   | 8.18   | 8.30   | 7.66   | 7.58   | 7.54   | 7.66   | 7.45   | 7.44   | 7.35   |
| 22    | 11.51  | 7.97   | 7.63   | 7.83   | 8.25   | 8.39   | 7.58   | 7.59   | 7.59   | 7.40   | 7.42   | 7.43   |
| 23    | 16.23  | 7.76   | 7.57   | 7.76   | 8.24   | 8.07   | 7.62   | 7.54   | 7.52   | 7.40   | 7.48   | 7.45   |
| 24    | 16.76  | 7.69   | 7.70   | 7.73   | 10.26  | 7.97   | 10.07  | 8.06   | 7.55   | 7.61   | 7.70   | 7.58   |
| 25    | 14.75  | 7.56   | 7.49   | 7.71   | 12.13  | 7.88   | 10.08  | 7.55   | 7.41   | 7.47   | 7.66   | 7.46   |
| 26    | 12.52  | 7.60   | 7.66   | 7.64   | 11.91  | 7.84   | 8.87   | 7.50   | 7.44   | 7.53   | 7.62   | 7.41   |
| 27    | 9.85   | 8.91   | 7.61   | 7.66   | 11.35  | 7.80   | 9.10   | 7.56   | 7.47   | 7.93   | 7.46   | 7.95   |
| 28    | 8.09   | 13.15  | 7.68   | 7.73   | 10.63  | 7.96   | 8.75   | 7.51   | 7.55   | 7.68   | 7.53   | 7.85   |
| 29    | 7.80   | 11.61  | 7.58   | 7.89   | ---    | 7.96   | 8.19   | 7.40   | 7.41   | 7.48   | 7.50   | 7.84   |
| 30    | 7.56   | 11.26  | 7.64   | 8.06   | ---    | 7.83   | 8.00   | 7.47   | 7.43   | 7.49   | 7.40   | 7.94   |
| 31    | 7.62   | ---    | 7.61   | 9.03   | ---    | 8.78   | ---    | 7.58   | ---    | 7.81   | 7.43   | ---    |
| TOTAL | 268.22 | 245.78 | 254.88 | 250.20 | 337.47 | 245.76 | 244.33 | 303.32 | 226.68 | 232.21 | 235.97 | 225.93 |
| MEAN  | 8.65   | 8.19   | 8.22   | 8.07   | 12.05  | 7.93   | 8.14   | 9.78   | 7.56   | 7.49   | 7.61   | 7.53   |
| MAX   | 16.76  | 13.15  | 11.48  | 11.03  | 19.35  | 9.41   | 10.08  | 22.08  | 8.46   | 7.93   | 9.67   | 8.21   |
| MIN   | 7.10   | 7.10   | 7.49   | 7.48   | 8.24   | 7.52   | 7.55   | 7.40   | 7.30   | 7.38   | 7.39   | 7.34   |

CAL YR 1984 TOTAL 3412.39 MEAN 9.32 MAX 23.12 MIN 7.10  
WTR YR 1985 TOTAL 3070.75 MEAN 8.41 MAX 22.08 MIN 7.10

## MOBILE RIVER BASIN

02443500 LUXAPALLILA CREEK NEAR COLUMBUS, MS

LOCATION.--Lat 33°30'50", long 88°23'44", in NW¼SW¼ 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.--September 1928 to September 1930, October 1974 to current year.

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 National Geodetic Vertical Datum of 1929. 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.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--13 years, 1,275 ft<sup>3</sup>/s, 24.22 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,400 ft<sup>3</sup>/s, Apr. 14, 1979, gage height, 32.35 ft; minimum, since October 1974, 58 ft<sup>3</sup>/s, Oct. 4, 5, 6, 1982, minimum gage height, 7.15 ft, Oct. 4, 1983.

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) |
|-------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| May 4 | 0730 | *9,910                            | *21.79              | No other peak greater than base discharge. |      |                                   |                     |

Minimum discharge, 94 ft<sup>3</sup>/s, Oct. 1, gage height, 7.39 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL  | AUG   | SEP  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|
| 1     | 97    | 413   | 3990  | 647   | 2460  | 1500  | 847   | 1300  | 219   | 267  | 396   | 222  |
| 2     | 99    | 499   | 2670  | 928   | 4310  | 1360  | 954   | 2760  | 203   | 253  | 346   | 198  |
| 3     | 103   | 609   | 2530  | 1180  | 4700  | 1240  | 843   | 6830  | 189   | 254  | 272   | 184  |
| 4     | 105   | 660   | 2990  | 1080  | 3320  | 1140  | 733   | 9130  | 175   | 252  | 230   | 199  |
| 5     | 106   | 577   | 2560  | 1020  | 3040  | 1090  | 641   | 4720  | 163   | 229  | 206   | 191  |
| 6     | 107   | 497   | 2200  | 948   | 3880  | 1080  | 685   | 2420  | 154   | 240  | 192   | 186  |
| 7     | 107   | 430   | 1980  | 824   | 4410  | 1040  | 896   | 1640  | 152   | 232  | 185   | 176  |
| 8     | 110   | 378   | 1670  | 736   | 3220  | 962   | 906   | 1250  | 161   | 276  | 335   | 170  |
| 9     | 113   | 343   | 1370  | 670   | 2500  | 901   | 765   | 1120  | 204   | 292  | 371   | 183  |
| 10    | 124   | 352   | 1200  | 646   | 1950  | 853   | 647   | 1110  | 250   | 232  | 271   | 239  |
| 11    | 145   | 463   | 1060  | 665   | 2070  | 814   | 566   | 999   | 784   | 195  | 218   | 396  |
| 12    | 142   | 583   | 945   | 681   | 3130  | 771   | 518   | 970   | 1940  | 257  | 183   | 359  |
| 13    | 139   | 654   | 858   | 655   | 3870  | 733   | 493   | 823   | 1240  | 244  | 163   | 260  |
| 14    | 134   | 552   | 794   | 607   | 2800  | 694   | 489   | 685   | 901   | 211  | 149   | 199  |
| 15    | 131   | 476   | 744   | 567   | 2270  | 662   | 595   | 578   | 560   | 182  | 140   | 166  |
| 16    | 134   | 501   | 699   | 561   | 1850  | 639   | 916   | 497   | 391   | 200  | 167   | 151  |
| 17    | 177   | 573   | 665   | 941   | 1520  | 617   | 967   | 429   | 310   | 219  | 277   | 141  |
| 18    | 199   | 679   | 652   | 1360  | 1320  | 592   | 797   | 379   | 492   | 200  | 527   | 134  |
| 19    | 292   | 690   | 632   | 1450  | 1190  | 571   | 651   | 346   | 806   | 188  | 727   | 130  |
| 20    | 301   | 717   | 614   | 1190  | 1100  | 548   | 543   | 321   | 994   | 168  | 524   | 125  |
| 21    | 331   | 731   | 595   | 1110  | 1040  | 539   | 478   | 311   | 770   | 150  | 378   | 121  |
| 22    | 576   | 650   | 610   | 971   | 993   | 622   | 433   | 301   | 576   | 137  | 516   | 118  |
| 23    | 1130  | 566   | 634   | 695   | 944   | 749   | 398   | 376   | 428   | 130  | 526   | 124  |
| 24    | 2090  | 501   | 669   | 692   | 1140  | 826   | 848   | 429   | 330   | 145  | 388   | 150  |
| 25    | 1900  | 461   | 642   | 709   | 1450  | 777   | 1660  | 402   | 279   | 169  | 423   | 269  |
| 26    | 1510  | 432   | 604   | 690   | 1930  | 689   | 1980  | 341   | 271   | 186  | 489   | 401  |
| 27    | 1220  | 1150  | 580   | 646   | 2080  | 620   | 1480  | 293   | 245   | 284  | 544   | 337  |
| 28    | 843   | 3870  | 557   | 627   | 1740  | 607   | 1260  | 259   | 233   | 462  | 450   | 251  |
| 29    | 606   | 6200  | 540   | 647   | ---   | 618   | 1140  | 247   | 248   | 775  | 350   | 204  |
| 30    | 513   | 6560  | 524   | 735   | ---   | 619   | 970   | 237   | 276   | 663  | 284   | 183  |
| 31    | 460   | ---   | 518   | 1120  | ---   | 691   | ---   | 228   | ---   | 505  | 245   | ---  |
| TOTAL | 14044 | 31767 | 37296 | 25998 | 66227 | 25164 | 25099 | 41731 | 13944 | 8197 | 10472 | 6167 |
| MEAN  | 453   | 1059  | 1203  | 839   | 2365  | 812   | 837   | 1346  | 465   | 264  | 338   | 206  |
| MAX   | 2090  | 6560  | 3990  | 1450  | 4700  | 1500  | 1980  | 9130  | 1940  | 775  | 727   | 401  |
| MIN   | 97    | 343   | 518   | 561   | 944   | 539   | 398   | 228   | 152   | 130  | 140   | 118  |
| CFSM  | .63   | 1.48  | 1.68  | 1.17  | 3.31  | 1.14  | 1.17  | 1.88  | .65   | .37  | .47   | .29  |
| IN.   | .73   | 1.65  | 1.94  | 1.35  | 3.45  | 1.31  | 1.31  | 2.17  | .73   | .43  | .54   | .32  |

|             |       |        |      |      |     |      |     |    |      |      |    |       |
|-------------|-------|--------|------|------|-----|------|-----|----|------|------|----|-------|
| CAL YR 1984 | TOTAL | 438148 | MEAN | 1197 | MAX | 9900 | MIN | 94 | CFSM | 1.67 | IN | 22.80 |
| WTR YR 1985 | TOTAL | 306106 | MEAN | 839  | MAX | 9130 | MIN | 97 | CFSM | 1.17 | IN | 15.93 |

## MOBILE RIVER BASIN

02443500 LUXAPALLILA CREEK NEAR COLUMBUS, MS--Continued

## WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(NTU) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) |
|--------------|------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|----------------------------------------------|------------------------------|-------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| NOV<br>20... | 1420 | 710                                             | 27                                                | 5.8                            | 11.5                        | 55                                           | 11                           | 11.4                                | 103                                                            | 1.6                                                            |
| FEB<br>20... | 1405 | 1050                                            | 25                                                | 5.6                            | 10.0                        | 20                                           | 8.0                          | 10.9                                | 96                                                             | 2.5                                                            |
| JUN<br>05... | 1200 | 150                                             | 29                                                | 6.7                            | 28.0                        | 55                                           | 8.9                          | 7.0                                 | 90                                                             | 1.2                                                            |
| AUG<br>02... | 1700 | 311                                             | 34                                                | 7.2                            | 27.5                        | 70                                           | 17                           | 6.9                                 | 88                                                             | .7                                                             |

| DATE         | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | HARD-<br>NESS<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CAC03) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LINITY<br>LAB<br>(MG/L<br>AS<br>CAC03) |
|--------------|----------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|-------------------------------------------------|
| NOV<br>20... | 220                                                            | 7                                      | 2                                                      | 1.8                                          | .71                                                  | 1.7                                          | 29                | .3                                      | 1.2                                                 | 5.0                                             |
| FEB<br>20... | K18                                                            | 6                                      | 0                                                      | 1.4                                          | .56                                                  | 1.5                                          | 32                | .3                                      | .90                                                 | 5.0                                             |
| JUN<br>05... | K43                                                            | 10                                     | 1                                                      | 2.4                                          | 1.0                                                  | 1.9                                          | 27                | .3                                      | 1.0                                                 | 9.0                                             |
| AUG<br>02... | K49                                                            | 11                                     | 4                                                      | 3.2                                          | .61                                                  | 1.9                                          | 25                | .3                                      | 1.4                                                 | 7.0                                             |

| DATE         | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTITUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | NITRO-<br>GEN,<br>NITRATE<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N) |
|--------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| NOV<br>20... | 4.5                                           | 3.7                                                 | <.10                                               | 7.8                                               | 39                                                                 | 25                                                             | .05                                                 | 75                                                | --                                                   | <.010                                                |
| FEB<br>20... | 3.7                                           | 2.6                                                 | <.10                                               | 5.8                                               | 20                                                                 | 20                                                             | .03                                                 | 57                                                | .09                                                  | .010                                                 |
| JUN<br>05... | 4.6                                           | .40                                                 | <.10                                               | 6.6                                               | 23                                                                 | 24                                                             | .03                                                 | 9.3                                               | --                                                   | <.010                                                |
| AUG<br>02... | 3.7                                           | 2.6                                                 | <.10                                               | 7.3                                               | 24                                                                 | 25                                                             | .03                                                 | 20                                                | --                                                   | <.010                                                |

| DATE         | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |
|--------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|------------------------------------------------------|--------------------------------------------|------------------------------------------------------|
| NOV<br>20... | <.10                                                 | .230                                                 | 2.1                                                  | 2.3                                                                 | --                                        | .010                                        | <.010                                                | 490                                        | 80                                                   |
| FEB<br>20... | .10                                                  | .030                                                 | .87                                                  | .90                                                                 | 1.0                                       | <.010                                       | <.010                                                | 230                                        | 58                                                   |
| JUN<br>05... | .20                                                  | .070                                                 | .03                                                  | .10                                                                 | .30                                       | .020                                        | .020                                                 | 440                                        | 110                                                  |
| AUG<br>02... | <.10                                                 | <.010                                                | --                                                   | .40                                                                 | --                                        | <.010                                       | <.010                                                | 140                                        | 29                                                   |



## MOBILE RIVER BASIN

02448000 NOXUBEE RIVER AT MACON, MS

LOCATION.--Lat 33°06'08", long 88°33'40", in NE¼ 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 Gulf, Mobile and Ohio Railroad bridge, 1.5 mi downstream from Horse Hunters Creek, and 6.2 mi upstream from Running Water Creek.

DRAINAGE AREA.--768 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1624: 1929-30, 1932. WDR MS-78-1: 1977. WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 142.38 ft above National Geodetic Vertical Datum of 1929 (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.

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

AVERAGE DISCHARGE.--51 years, 1,068 ft<sup>3</sup>/s, 18.88 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 125,000 ft<sup>3</sup>/s, Apr. 13, 1979, gage height, 38.97 ft from flood-mark; minimum, 22 ft<sup>3</sup>/s, Aug. 25, 26, 1943, gage height, 4.89 ft.

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.

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) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Nov. 29 | 1000 | *6,390                            | *25.98              | Feb. 7  | 1100 | 5,880                             | 24.95               |
| Feb. 2  | 1000 | 6,120                             | 25.45               | Feb. 11 | 2300 | 5,050                             | 22.75               |

Minimum discharge, 53 ft<sup>3</sup>/s, Sept. 22, gage height, 5.63 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT  | NOV   | DEC   | JAN   | FEB    | MAR   | APR   | MAY   | JUN  | JUL  | AUG  | SEP  |
|-------|------|-------|-------|-------|--------|-------|-------|-------|------|------|------|------|
| 1     | 66   | 168   | 2640  | 532   | 5770   | 2920  | 646   | 2460  | 126  | 122  | 169  | 82   |
| 2     | 69   | 841   | 1570  | 559   | 6090   | 2960  | 669   | 3990  | 152  | 111  | 149  | 83   |
| 3     | 68   | 843   | 2000  | 408   | 5640   | 2600  | 804   | 4610  | 142  | 102  | 136  | 78   |
| 4     | 68   | 638   | 1510  | 417   | 4300   | 1630  | 722   | 3580  | 130  | 98   | 127  | 73   |
| 5     | 67   | 609   | 1370  | 392   | 4700   | 1130  | 559   | 2410  | 119  | 96   | 127  | 73   |
| 6     | 67   | 464   | 1520  | 357   | 5590   | 885   | 604   | 2180  | 111  | 92   | 108  | 77   |
| 7     | 68   | 328   | 1180  | 316   | 5830   | 748   | 680   | 1930  | 105  | 88   | 102  | 67   |
| 8     | 72   | 249   | 860   | 291   | 5320   | 666   | 502   | 1620  | 106  | 87   | 109  | 65   |
| 9     | 80   | 197   | 718   | 265   | 4230   | 606   | 507   | 2060  | 105  | 85   | 96   | 68   |
| 10    | 107  | 193   | 595   | 246   | 3380   | 559   | 435   | 1500  | 104  | 89   | 85   | 77   |
| 11    | 107  | 406   | 490   | 243   | 4200   | 520   | 369   | 1130  | 97   | 82   | 80   | 74   |
| 12    | 115  | 316   | 417   | 239   | 4910   | 489   | 333   | 875   | 127  | 91   | 80   | 70   |
| 13    | 119  | 214   | 372   | 221   | 4730   | 463   | 315   | 661   | 104  | 127  | 77   | 67   |
| 14    | 113  | 185   | 349   | 210   | 3840   | 434   | 317   | 523   | 123  | 95   | 72   | 65   |
| 15    | 103  | 187   | 316   | 203   | 3070   | 410   | 486   | 428   | 146  | 117  | 69   | 64   |
| 16    | 98   | 279   | 273   | 214   | 2980   | 412   | 1220  | 354   | 125  | 95   | 138  | 64   |
| 17    | 106  | 292   | 285   | 1350  | 2810   | 404   | 1170  | 297   | 115  | 97   | 160  | 62   |
| 18    | 130  | 275   | 574   | 1640  | 1880   | 372   | 1010  | 262   | 125  | 99   | 174  | 60   |
| 19    | 163  | 433   | 578   | 1290  | 1020   | 345   | 962   | 230   | 182  | 91   | 132  | 58   |
| 20    | 171  | 396   | 432   | 1280  | 743    | 332   | 702   | 205   | 249  | 90   | 264  | 57   |
| 21    | 218  | 274   | 370   | 1040  | 619    | 330   | 536   | 188   | 182  | 83   | 443  | 56   |
| 22    | 525  | 218   | 513   | 653   | 548    | 339   | 427   | 201   | 140  | 77   | 219  | 55   |
| 23    | 899  | 186   | 544   | 489   | 505    | 351   | 352   | 208   | 133  | 78   | 117  | 60   |
| 24    | 1060 | 174   | 424   | 394   | 2240   | 408   | 1160  | 175   | 117  | 126  | 94   | 70   |
| 25    | 992  | 162   | 343   | 362   | 3940   | 490   | 2290  | 160   | 118  | 144  | 102  | 90   |
| 26    | 926  | 152   | 303   | 339   | 4500   | 441   | 1400  | 154   | 106  | 283  | 191  | 67   |
| 27    | 657  | 2080  | 271   | 310   | 3910   | 402   | 1750  | 147   | 116  | 232  | 100  | 74   |
| 28    | 416  | 6020  | 249   | 376   | 3110   | 398   | 1600  | 136   | 137  | 329  | 83   | 96   |
| 29    | 314  | 6300  | 233   | 544   | ---    | 401   | 998   | 128   | 109  | 384  | 78   | 97   |
| 30    | 244  | 5380  | 225   | 806   | ---    | 387   | 701   | 122   | 118  | 257  | 81   | 86   |
| 31    | 192  | ---   | 220   | 3770  | ---    | 433   | ---   | 121   | ---  | 187  | 34   | ---  |
| TOTAL | 8400 | 28459 | 21744 | 19756 | 100405 | 23265 | 24226 | 33045 | 3869 | 4134 | 4046 | 2135 |
| MEAN  | 271  | 949   | 701   | 637   | 3586   | 750   | 808   | 1066  | 129  | 133  | 131  | 71.2 |
| MAX   | 1060 | 6300  | 2640  | 3770  | 6090   | 2960  | 2290  | 4610  | 249  | 384  | 443  | 97   |
| MIN   | 66   | 152   | 220   | 203   | 505    | 330   | 315   | 121   | 97   | 77   | 69   | 55   |
| CFSM  | .35  | 1.24  | .91   | .83   | 4.67   | .98   | 1.05  | 1.39  | .17  | .17  | .17  | .09  |
| IN.   | .41  | 1.38  | 1.05  | .96   | 4.86   | 1.13  | 1.17  | 1.60  | .19  | .20  | .20  | .10  |

|             |       |        |      |      |     |       |     |    |      |      |    |       |
|-------------|-------|--------|------|------|-----|-------|-----|----|------|------|----|-------|
| CAL YR 1984 | TOTAL | 465342 | MEAN | 1271 | MAX | 15400 | MIN | 66 | CFSM | 1.66 | IN | 22.54 |
| WTR YR 1985 | TOTAL | 273484 | MEAN | 749  | MAX | 6300  | MIN | 55 | CFSM | .98  | IN | 13.25 |

## MOBILE RIVER BASIN

02448000 NOXUBEE RIVER AT MACON, MS--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967, 1972-75, 1981 to current year.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L) | SEDI-<br>MENT,<br>DIS-<br>CHARGE,<br>SUS-<br>PENDE<br>(T/DAY) |
|-------|------|-------------------------------------------------|-------------------------------------------|---------------------------------------------------------------|
| OCT   |      |                                                 |                                           |                                                               |
| 22... | 1545 | 618                                             | 205                                       | 342                                                           |
| 23... | 0830 | 872                                             | 284                                       | 669                                                           |
| 30... | 1430 | 232                                             | 45                                        | 28                                                            |
| DEC   |      |                                                 |                                           |                                                               |
| 13... | 1600 | 166                                             | 35                                        | 16                                                            |
| JAN   |      |                                                 |                                           |                                                               |
| 31... | 1600 | 4610                                            | 619                                       | 7700                                                          |
| MAR   |      |                                                 |                                           |                                                               |
| 12... | 1600 | 432                                             | 43                                        | 50                                                            |
| APR   |      |                                                 |                                           |                                                               |
| 18... | 1445 | 954                                             | 124                                       | 319                                                           |
| MAY   |      |                                                 |                                           |                                                               |
| 29... | 1530 | 126                                             | 34                                        | 12                                                            |
| JUL   |      |                                                 |                                           |                                                               |
| 10... | 2000 | 79                                              | 33                                        | 7.0                                                           |

## MOBILE RIVER BASIN

02448500 NOXUBEE RIVER NEAR GEIGER, AL

LOCATION (revised).--Lat 32°55'57", long 88°17'52", in NE¼ 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, July 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 National Geodetic Vertical Datum of 1929. 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 present site and datum. June 6, 1949 to Sept. 30, 1984, at site on old river channel 1 mi south at same datum. Water-stage recorder for Tombigbee River at Gainesville is used as an auxiliary gage for this station.

REMARKS.--Estimated daily discharges: May 27 to June 6. Water-discharge records fair except those for period of estimated record, which are poor. Discharge includes flow of old river channel at bridge on State Highway 17, 1 mi south of gage.

AVERAGE DISCHARGE.--41 years (water years 1940, 1945-65, 1967-85), 1,607 ft<sup>3</sup>/s, 19.89 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 156,000 ft<sup>3</sup>/s, Apr. 14, 1979, gage height, 48.58 ft; minimum, 13 ft/s, July 7, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,880 ft<sup>3</sup>/s, Feb. 6, gage height, 32.23 ft; minimum, 80 ft<sup>3</sup>/s, Oct. 2, 3, 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY         | OCT   | NOV    | DEC   | JAN   | FEB    | MAR   | APR   | MAY   | JUN  | JUL  | AUG   | SEP  |       |
|-------------|-------|--------|-------|-------|--------|-------|-------|-------|------|------|-------|------|-------|
| 1           | 83    | 218    | 6280  | 464   | 7090   | 3700  | 465   | 915   | 170  | 114  | 412   | 226  |       |
| 2           | 82    | 371    | 4520  | 1160  | 8300   | 3260  | 625   | 3110  | 190  | 122  | 375   | 227  |       |
| 3           | 80    | 915    | 2380  | 815   | 7790   | 3150  | 645   | 4450  | 170  | 121  | 447   | 219  |       |
| 4           | 82    | 883    | 1980  | 644   | 7140   | 2620  | 743   | 4790  | 155  | 127  | 326   | 220  |       |
| 5           | 82    | 670    | 1770  | 617   | 7760   | 1690  | 721   | 3930  | 145  | 107  | 303   | 213  |       |
| 6           | 82    | 613    | 1830  | 534   | 9690   | 1190  | 818   | 2560  | 135  | 104  | 293   | 205  |       |
| 7           | 82    | 502    | 1630  | 475   | 8880   | 958   | 756   | 2130  | 114  | 102  | 279   | 207  |       |
| 8           | 83    | 369    | 1180  | 418   | 7800   | 816   | 701   | 1760  | 110  | 98   | 253   | 210  |       |
| 9           | 86    | 284    | 922   | 384   | 6810   | 722   | 526   | 1920  | 107  | 94   | 251   | 196  |       |
| 10          | 89    | 233    | 789   | 353   | 5680   | 653   | 485   | 2120  | 180  | 93   | 257   | 191  |       |
| 11          | 102   | 275    | 672   | 330   | 5770   | 604   | 432   | 1480  | 332  | 121  | 236   | 194  |       |
| 12          | 116   | 441    | 583   | 321   | 8060   | 561   | 375   | 1080  | 127  | 97   | 217   | 207  |       |
| 13          | 115   | 418    | 506   | 316   | 7530   | 526   | 341   | 861   | 122  | 92   | 207   | 201  |       |
| 14          | 119   | 258    | 464   | 301   | 6530   | 492   | 370   | 678   | 121  | 105  | 207   | 191  |       |
| 15          | 121   | 214    | 441   | 285   | 5210   | 458   | 648   | 553   | 106  | 113  | 201   | 185  |       |
| 16          | 116   | 264    | 409   | 275   | 3710   | 429   | 1150  | 459   | 134  | 105  | 246   | 179  |       |
| 17          | 113   | 430    | 365   | 620   | 3090   | 421   | 1400  | 390   | 131  | 133  | 936   | 178  |       |
| 18          | 109   | 397    | 355   | 1660  | 2760   | 416   | 1140  | 335   | 471  | 104  | 529   | 178  |       |
| 19          | 113   | 382    | 603   | 1650  | 1860   | 388   | 959   | 301   | 455  | 102  | 398   | 175  |       |
| 20          | 139   | 428    | 570   | 1310  | 1100   | 362   | 886   | 277   | 200  | 102  | 325   | 170  |       |
| 21          | 192   | 505    | 526   | 1230  | 847    | 356   | 687   | 270   | 236  | 97   | 346   | 167  |       |
| 22          | 229   | 363    | 454   | 1020  | 718    | 411   | 536   | 268   | 226  | 96   | 745   | 166  |       |
| 23          | 591   | 280    | 550   | 735   | 639    | 378   | 439   | 275   | 156  | 93   | 488   | 172  |       |
| 24          | 362   | 226    | 631   | 578   | 2180   | 410   | 1230  | 274   | 139  | 130  | 331   | 176  |       |
| 25          | 377   | 200    | 515   | 479   | 5010   | 427   | 2190  | 275   | 127  | 2340 | 292   | 178  |       |
| 26          | 377   | 188    | 423   | 435   | 6280   | 484   | 2310  | 244   | 116  | 1380 | 335   | 211  |       |
| 27          | 366   | 417    | 379   | 409   | 5920   | 454   | 1800  | 215   | 113  | 690  | 382   | 221  |       |
| 28          | 669   | 4320   | 346   | 406   | 4920   | 422   | 1980  | 210   | 121  | 531  | 314   | 187  |       |
| 29          | 455   | 6110   | 321   | 495   | ---    | 413   | 1590  | 200   | 140  | 489  | 249   | 202  |       |
| 30          | 340   | 6430   | 306   | 673   | ---    | 408   | 1030  | 190   | 137  | 613  | 235   | 245  |       |
| 31          | 277   | ---    | 297   | 2210  | ---    | 426   | ---   | 180   | ---  | 504  | 228   | ---  |       |
| TOTAL       | 8229  | 27604  | 32997 | 21602 | 149074 | 28005 | 27978 | 36700 | 5186 | 9119 | 10643 | 5897 |       |
| MEAN        | 265   | 920    | 1064  | 697   | 5324   | 903   | 933   | 1184  | 173  | 294  | 343   | 197  |       |
| MAX         | 377   | 6430   | 6280  | 2210  | 9690   | 3700  | 2310  | 4790  | 471  | 2340 | 936   | 245  |       |
| MIN         | 80    | 188    | 297   | 275   | 639    | 356   | 341   | 180   | 106  | 92   | 201   | 166  |       |
| CFSM        | .24   | .84    | .97   | .64   | 4.85   | .82   | .85   | 1.08  | .16  | .27  | .31   | .18  |       |
| IN.         | .28   | .94    | 1.12  | .73   | 5.06   | .95   | .95   | 1.24  | .18  | .31  | .36   | .20  |       |
| CAL YR 1984 | TOTAL | 548507 |       | MEAN  | 1499   | MAX   | 10900 | MIN   | 80   | CFSM | 1.37  | IN.  | 18.60 |
| WTR YR 1985 | TOTAL | 363034 |       | MEAN  | 995    | MAX   | 9690  | MIN   | 80   | CFSM | .91   | IN.  | 12.31 |

## PASCAGOULA RIVER BASIN

73

02472000 LEAF RIVER NEAR COLLINS, MS

LOCATION.--Lat 31°42'25", Long 89°24'25", in NE¼ 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. Datum of gage is 197.01 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 8, 1938, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: April 7-9 and Aug. 16. Records good. National Weather Service telemeter at station.

AVERAGE DISCHARGE.--47 years, 1,094 ft<sup>3</sup>/s, 20.00 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54,200 ft<sup>3</sup>/s, Apr. 14, 1974, gage height, 32.6 ft, from flood-mark; minimum, 55 ft<sup>3</sup>/s, Aug. 28-30, 1957.

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) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Oct. 24 | 1800 | *13,200                           | *19.77              | Aug. 17 | 0200 | 8,670                             | 16.32               |

Minimum discharge, 89 ft<sup>3</sup>/s, Oct. 1-3, gage height, 3.45 ft.

| DAY               | DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985<br>MEAN VALUES |       |       |          |           |        |           |          |      |      |       |      |
|-------------------|-----------------------------------------------------------------------------------------------|-------|-------|----------|-----------|--------|-----------|----------|------|------|-------|------|
|                   | OCT                                                                                           | NOV   | DEC   | JAN      | FEB       | MAR    | APR       | MAY      | JUN  | JUL  | AUG   | SEP  |
| 1                 | 89                                                                                            | 423   | 1710  | 707      | 3330      | 4480   | 1000      | 584      | 149  | 135  | 160   | 198  |
| 2                 | 89                                                                                            | 2150  | 945   | 1200     | 4220      | 4450   | 1150      | 446      | 146  | 144  | 155   | 188  |
| 3                 | 90                                                                                            | 2680  | 1270  | 1170     | 4690      | 3520   | 917       | 374      | 143  | 178  | 171   | 184  |
| 4                 | 91                                                                                            | 3030  | 3280  | 948      | 3360      | 2560   | 684       | 336      | 141  | 151  | 160   | 193  |
| 5                 | 93                                                                                            | 2250  | 5650  | 644      | 4660      | 1800   | 580       | 309      | 137  | 139  | 146   | 275  |
| 6                 | 93                                                                                            | 1020  | 3880  | 565      | 7040      | 1230   | 689       | 281      | 136  | 137  | 141   | 210  |
| 7                 | 93                                                                                            | 629   | 2730  | 491      | 7160      | 973    | 840       | 280      | 133  | 137  | 231   | 202  |
| 8                 | 101                                                                                           | 493   | 2110  | 444      | 6360      | 837    | 780       | 275      | 130  | 136  | 219   | 188  |
| 9                 | 117                                                                                           | 428   | 1250  | 409      | 3100      | 757    | 510       | 268      | 131  | 130  | 196   | 204  |
| 10                | 121                                                                                           | 388   | 880   | 383      | 2010      | 703    | 447       | 248      | 138  | 125  | 173   | 271  |
| 11                | 124                                                                                           | 365   | 738   | 363      | 2950      | 656    | 396       | 238      | 158  | 125  | 154   | 267  |
| 12                | 121                                                                                           | 347   | 645   | 346      | 4590      | 610    | 369       | 226      | 153  | 167  | 142   | 226  |
| 13                | 117                                                                                           | 332   | 580   | 336      | 4910      | 569    | 394       | 215      | 153  | 156  | 136   | 193  |
| 14                | 111                                                                                           | 307   | 527   | 338      | 4060      | 540    | 432       | 207      | 150  | 199  | 133   | 176  |
| 15                | 126                                                                                           | 295   | 492   | 334      | 2250      | 518    | 547       | 207      | 144  | 229  | 153   | 165  |
| 16                | 157                                                                                           | 311   | 465   | 329      | 1550      | 487    | 600       | 216      | 149  | 192  | 2290  | 157  |
| 17                | 247                                                                                           | 1000  | 443   | 851      | 1030      | 480    | 541       | 197      | 147  | 194  | 4810  | 153  |
| 18                | 499                                                                                           | 2050  | 425   | 1420     | 860       | 460    | 458       | 185      | 159  | 220  | 1490  | 150  |
| 19                | 512                                                                                           | 1820  | 409   | 1580     | 762       | 435    | 388       | 178      | 283  | 255  | 783   | 146  |
| 20                | 380                                                                                           | 1220  | 397   | 974      | 700       | 429    | 344       | 173      | 246  | 224  | 448   | 144  |
| 21                | 613                                                                                           | 1010  | 388   | 621      | 645       | 847    | 316       | 171      | 198  | 187  | 338   | 145  |
| 22                | 6210                                                                                          | 662   | 382   | 485      | 597       | 873    | 297       | 184      | 184  | 151  | 286   | 143  |
| 23                | 8650                                                                                          | 476   | 370   | 433      | 562       | 865    | 287       | 188      | 167  | 542  | 251   | 195  |
| 24                | 12600                                                                                         | 400   | 360   | 417      | 622       | 800    | 300       | 187      | 153  | 1640 | 227   | 295  |
| 25                | 9950                                                                                          | 355   | 349   | 418      | 3380      | 685    | 367       | 177      | 144  | 982  | 218   | 234  |
| 26                | 4740                                                                                          | 329   | 344   | 407      | 7140      | 605    | 569       | 171      | 151  | 556  | 217   | 198  |
| 27                | 2600                                                                                          | 599   | 340   | 405      | 6800      | 531    | 627       | 165      | 144  | 411  | 313   | 192  |
| 28                | 1050                                                                                          | 2420  | 337   | 928      | 6090      | 610    | 620       | 160      | 157  | 342  | 361   | 191  |
| 29                | 690                                                                                           | 2810  | 333   | 1280     | ---       | 670    | 831       | 157      | 172  | 245  | 279   | 183  |
| 30                | 540                                                                                           | 2880  | 332   | 1360     | ---       | 629    | 774       | 155      | 148  | 201  | 247   | 230  |
| 31                | 462                                                                                           | ---   | 333   | 1020     | ---       | 752    | ---       | 152      | ---  | 175  | 220   | ---  |
| TOTAL             | 51476                                                                                         | 33479 | 32694 | 21606    | 95428     | 34361  | 17054     | 7310     | 4744 | 8805 | 15248 | 5896 |
| MEAN              | 1661                                                                                          | 1116  | 1055  | 697      | 3408      | 1108   | 568       | 236      | 158  | 284  | 492   | 197  |
| MAX               | 12600                                                                                         | 3030  | 5650  | 1580     | 7160      | 4480   | 1150      | 584      | 283  | 1640 | 4810  | 295  |
| MIN               | 89                                                                                            | 295   | 332   | 329      | 562       | 429    | 287       | 152      | 130  | 125  | 133   | 143  |
| CFSM              | 2.24                                                                                          | 1.50  | 1.42  | .94      | 4.59      | 1.49   | .76       | .32      | .21  | .38  | .66   | .27  |
| IN.               | 2.58                                                                                          | 1.68  | 1.64  | 1.08     | 4.78      | 1.72   | .85       | .37      | .24  | .44  | .76   | .30  |
| CAL YR 1984 TOTAL | 360132                                                                                        |       |       | MEAN 984 | MAX 12600 | MIN 89 | CFSM 1.32 | IN 18.03 |      |      |       |      |
| WTR YR 1985 TOTAL | 328101                                                                                        |       |       | MEAN 899 | MAX 12600 | MIN 89 | CFSM 1.21 | IN 16.43 |      |      |       |      |



## PASCAGOULA RIVER BASIN

02472500 BOWIE CREEK NEAR HATTIESBURG, MS

LOCATION.--Lat 31°25'32", long 89°24'53", in NW¼SW¼ 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.

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

GAGE.--Water-stage recorder. Datum of gage is 160.04 ft above National Geodetic Vertical Datum of 1929 (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. Record good.

AVERAGE DISCHARGE.--47 years, 449 ft<sup>3</sup>/s, 20.06 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,500 ft<sup>3</sup>/s, Apr. 14, 1974, gage height, 28.18 ft, from flood-mark; minimum, 83 ft<sup>3</sup>/s, Aug. 29, 1957; minimum gage height, 2.37 ft, Sept. 16, 17, 1972.

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) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Feb. 26 | 0330 | 4,560                             | 13.51               | Aug. 17 | 1800 | *7,000                            | *17.01              |

Minimum discharge, 127 ft<sup>3</sup>/s, Sept. 21, 22, gage height, 3.54 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC  | JAN   | FEB   | MAR   | APR  | MAY  | JUN  | JUL  | AUG   | SEP  |
|-------|-------|-------|------|-------|-------|-------|------|------|------|------|-------|------|
| 1     | 144   | 233   | 338  | 710   | 652   | 2160  | 651  | 330  | 160  | 151  | 152   | 167  |
| 2     | 144   | 2220  | 272  | 691   | 819   | 1890  | 456  | 303  | 158  | 148  | 182   | 166  |
| 3     | 143   | 2420  | 243  | 439   | 719   | 1170  | 360  | 266  | 156  | 149  | 155   | 167  |
| 4     | 144   | 1270  | 289  | 337   | 507   | 915   | 331  | 230  | 154  | 147  | 146   | 262  |
| 5     | 144   | 788   | 1000 | 279   | 715   | 797   | 311  | 215  | 152  | 146  | 142   | 277  |
| 6     | 145   | 450   | 1300 | 239   | 1190  | 625   | 380  | 207  | 149  | 150  | 141   | 213  |
| 7     | 145   | 319   | 774  | 220   | 1150  | 474   | 432  | 224  | 147  | 151  | 311   | 192  |
| 8     | 154   | 268   | 484  | 211   | 1010  | 410   | 355  | 230  | 145  | 156  | 301   | 562  |
| 9     | 181   | 243   | 367  | 203   | 586   | 382   | 305  | 233  | 145  | 153  | 210   | 1100 |
| 10    | 187   | 228   | 316  | 198   | 405   | 363   | 280  | 219  | 145  | 146  | 218   | 612  |
| 11    | 191   | 223   | 286  | 196   | 1020  | 347   | 267  | 206  | 164  | 161  | 162   | 326  |
| 12    | 186   | 215   | 263  | 192   | 1330  | 334   | 264  | 200  | 172  | 173  | 174   | 228  |
| 13    | 177   | 203   | 248  | 187   | 1010  | 322   | 296  | 190  | 158  | 149  | 226   | 187  |
| 14    | 164   | 196   | 237  | 184   | 765   | 311   | 334  | 185  | 155  | 144  | 170   | 168  |
| 15    | 169   | 192   | 229  | 185   | 502   | 301   | 320  | 195  | 150  | 151  | 261   | 156  |
| 16    | 200   | 249   | 224  | 189   | 392   | 291   | 308  | 208  | 152  | 183  | 2150  | 147  |
| 17    | 378   | 434   | 218  | 738   | 346   | 290   | 275  | 197  | 152  | 232  | 6020  | 142  |
| 18    | 776   | 341   | 213  | 841   | 322   | 286   | 255  | 183  | 157  | 176  | 3700  | 137  |
| 19    | 459   | 316   | 209  | 522   | 308   | 277   | 242  | 178  | 198  | 162  | 705   | 134  |
| 20    | 292   | 302   | 207  | 333   | 293   | 309   | 232  | 175  | 311  | 154  | 374   | 131  |
| 21    | 289   | 253   | 207  | 263   | 287   | 1160  | 227  | 175  | 258  | 148  | 285   | 128  |
| 22    | 942   | 223   | 206  | 230   | 277   | 855   | 222  | 185  | 186  | 161  | 245   | 131  |
| 23    | 1070  | 207   | 203  | 223   | 271   | 531   | 218  | 195  | 168  | 231  | 221   | 167  |
| 24    | 2850  | 199   | 197  | 234   | 404   | 392   | 263  | 194  | 158  | 382  | 229   | 278  |
| 25    | 2840  | 195   | 193  | 262   | 2250  | 342   | 296  | 184  | 153  | 313  | 428   | 338  |
| 26    | 1590  | 193   | 190  | 256   | 3940  | 316   | 257  | 176  | 153  | 402  | 328   | 225  |
| 27    | 776   | 307   | 187  | 276   | 2440  | 302   | 316  | 170  | 152  | 422  | 307   | 179  |
| 28    | 409   | 983   | 185  | 1110  | 1420  | 361   | 376  | 167  | 203  | 317  | 241   | 168  |
| 29    | 307   | 933   | 187  | 879   | ---   | 406   | 710  | 164  | 177  | 183  | 203   | 154  |
| 30    | 261   | 508   | 191  | 541   | ---   | 346   | 418  | 164  | 159  | 161  | 185   | 171  |
| 31    | 236   | ---   | 196  | 507   | ---   | 417   | ---  | 161  | ---  | 151  | 174   | ---  |
| TOTAL | 16093 | 15111 | 9859 | 11875 | 25330 | 17682 | 9957 | 6309 | 5047 | 6053 | 18746 | 7413 |
| MEAN  | 519   | 504   | 318  | 383   | 905   | 570   | 332  | 204  | 168  | 195  | 605   | 247  |
| MAX   | 2850  | 2420  | 1300 | 1110  | 3940  | 2160  | 710  | 330  | 311  | 422  | 6020  | 1100 |
| MIN   | 143   | 192   | 185  | 184   | 271   | 277   | 218  | 161  | 145  | 144  | 141   | 128  |
| CFSM  | 1.71  | 1.66  | 1.05 | 1.26  | 2.98  | 1.88  | 1.09 | .67  | .55  | .64  | 1.99  | .81  |
| IN.   | 1.97  | 1.85  | 1.21 | 1.45  | 3.10  | 2.16  | 1.22 | .77  | .62  | .74  | 2.29  | .91  |

|             |       |        |          |          |         |           |          |
|-------------|-------|--------|----------|----------|---------|-----------|----------|
| CAL YR 1984 | TOTAL | 154596 | MEAN 422 | MAX 3370 | MIN 142 | CFSM 1.39 | IN 18.92 |
| WTR YR 1985 | TOTAL | 149475 | MEAN 410 | MAX 6020 | MIN 128 | CFSM 1.35 | IN 18.29 |

## 02473000 LEAF RIVER AT HATTIESBURG, MS

LOCATION.--Lat 31°20'33", long 89°16'46", in SW¼NW¼ 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 Bowie Creek, 3,200 ft upstream from New Orleans and Northeastern Railroad bridge, and at mile 71.8.

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

PERIOD OF RECORD.--September 1938 to current year. Daily mean gage height, 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. Datum of gage is 118.23 ft above National Geodetic Vertical Datum of 1929 (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: Aug. 23 to Sept. 6. Records good. National Weather Service telemeter at station.

AVERAGE DISCHARGE.--47 years, 2,694 ft<sup>3</sup>/s, 20.93 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 121,000 ft<sup>3</sup>/s, Apr. 15, 1974, gage height, 34.03 ft; minimum, 318 ft<sup>3</sup>/s, Oct. 22, 1963; minimum recorded gage height, 2.20 ft, Oct. 6, 1982.

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 (ft <sup>3</sup> /s) | Gage Height (ft) | Date    | Time | Discharge (ft <sup>3</sup> /s) | Gage Height (ft) |
|---------|------|--------------------------------|------------------|---------|------|--------------------------------|------------------|
| Oct. 25 | 1945 | 16,300                         | 16.32            | Aug. 18 | 0230 | *17,200                        | *16.88           |
| Feb. 26 | 1315 | 15,200                         | 15.62            |         |      |                                |                  |

Minimum discharge, 416 ft<sup>3</sup>/s, Oct. 2, gage height, 2.29 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB    | MAR    | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|
| 1     | 422   | 1580  | 4610  | 1810  | 3440   | 11700  | 3000  | 2490  | 694   | 618   | 690   | 970   |
| 2     | 416   | 5620  | 3130  | 3070  | 6420   | 11400  | 2970  | 2160  | 684   | 654   | 672   | 910   |
| 3     | 428   | 9750  | 2290  | 2990  | 6840   | 8800   | 2710  | 1660  | 671   | 631   | 655   | 900   |
| 4     | 422   | 7070  | 3100  | 2620  | 6680   | 7010   | 2270  | 1440  | 658   | 650   | 660   | 1300  |
| 5     | 424   | 5680  | 6320  | 2160  | 5440   | 5830   | 1970  | 1310  | 642   | 625   | 653   | 1400  |
| 6     | 426   | 3970  | 8690  | 1770  | 8500   | 4440   | 2030  | 1240  | 645   | 600   | 631   | 1050  |
| 7     | 430   | 2450  | 6520  | 1610  | 9900   | 3430   | 2380  | 1220  | 631   | 601   | 732   | 927   |
| 8     | 479   | 1930  | 4940  | 1460  | 10000  | 2880   | 2250  | 1270  | 607   | 610   | 1180  | 916   |
| 9     | 752   | 1680  | 3860  | 1350  | 8690   | 2610   | 1950  | 1280  | 606   | 630   | 974   | 1750  |
| 10    | 847   | 1550  | 2860  | 1290  | 5030   | 2430   | 1670  | 1230  | 609   | 590   | 847   | 1740  |
| 11    | 830   | 1470  | 2390  | 1230  | 4680   | 2290   | 1520  | 1140  | 620   | 586   | 767   | 1420  |
| 12    | 691   | 1410  | 2130  | 1190  | 7790   | 2150   | 1440  | 1080  | 675   | 682   | 703   | 1090  |
| 13    | 622   | 1360  | 1960  | 1140  | 7960   | 2040   | 1440  | 1030  | 655   | 676   | 731   | 911   |
| 14    | 579   | 1320  | 1820  | 1120  | 7570   | 1960   | 1610  | 979   | 652   | 653   | 713   | 819   |
| 15    | 619   | 1280  | 1710  | 1120  | 6130   | 1860   | 1670  | 979   | 648   | 699   | 1190  | 748   |
| 16    | 789   | 1390  | 1630  | 1150  | 4020   | 1790   | 1770  | 991   | 632   | 932   | 4580  | 717   |
| 17    | 1370  | 1820  | 1560  | 2220  | 3090   | 1740   | 1760  | 990   | 630   | 931   | 13500 | 695   |
| 18    | 2440  | 2780  | 1500  | 3700  | 2510   | 1700   | 1600  | 927   | 621   | 816   | 14600 | 671   |
| 19    | 2160  | 3520  | 1450  | 3610  | 2250   | 1640   | 1440  | 894   | 729   | 816   | 5280  | 656   |
| 20    | 1670  | 3180  | 1420  | 3050  | 2090   | 1720   | 1320  | 878   | 1140  | 846   | 2710  | 643   |
| 21    | 1330  | 2550  | 1390  | 2150  | 1960   | 4460   | 1250  | 841   | 1100  | 805   | 1870  | 634   |
| 22    | 3650  | 2230  | 1370  | 1660  | 1840   | 4240   | 1200  | 863   | 864   | 732   | 1540  | 646   |
| 23    | 8270  | 1830  | 1350  | 1450  | 1750   | 3180   | 1170  | 885   | 755   | 876   | 1300  | 1170  |
| 24    | 12100 | 1600  | 1320  | 1400  | 2060   | 2590   | 1230  | 889   | 704   | 1910  | 1220  | 1350  |
| 25    | 15900 | 1490  | 1290  | 1450  | 6510   | 2290   | 1490  | 847   | 651   | 3270  | 2000  | 1560  |
| 26    | 14600 | 1430  | 1250  | 1440  | 14700  | 2030   | 1880  | 807   | 627   | 2490  | 1710  | 1160  |
| 27    | 8610  | 1440  | 1240  | 1490  | 13700  | 1890   | 2340  | 769   | 634   | 1890  | 1500  | 908   |
| 28    | 4160  | 3330  | 1220  | 3470  | 11500  | 1980   | 2090  | 748   | 662   | 1460  | 1360  | 838   |
| 29    | 2530  | 5310  | 1220  | 3990  | ---    | 2240   | 2620  | 728   | 681   | 1110  | 1180  | 796   |
| 30    | 2040  | 5150  | 1240  | 3520  | ---    | 2160   | 2620  | 715   | 664   | 882   | 1060  | 1080  |
| 31    | 1770  | ---   | 1250  | 3160  | ---    | 2050   | ---   | 712   | ---   | 751   | 950   | ---   |
| TOTAL | 91776 | 87170 | 78030 | 64840 | 173050 | 108530 | 56660 | 33992 | 20791 | 30022 | 68158 | 30375 |
| MEAN  | 2961  | 2906  | 2517  | 2092  | 6180   | 3501   | 1889  | 1097  | 693   | 968   | 2199  | 1013  |
| MAX   | 15900 | 9750  | 8690  | 3990  | 14700  | 11700  | 3000  | 2490  | 1140  | 3270  | 14600 | 1750  |
| MIN   | 416   | 1280  | 1220  | 1120  | 1750   | 1640   | 1170  | 712   | 606   | 586   | 631   | 634   |
| CFSM  | 1.69  | 1.66  | 1.44  | 1.20  | 3.54   | 2.00   | 1.08  | .63   | .40   | .55   | 1.26  | .58   |
| IN.   | 1.95  | 1.86  | 1.66  | 1.38  | 3.68   | 2.31   | 1.21  | .72   | .44   | .64   | 1.45  | .65   |

|             |       |        |      |      |     |       |     |     |      |      |    |       |
|-------------|-------|--------|------|------|-----|-------|-----|-----|------|------|----|-------|
| CAL YR 1984 | TOTAL | 941489 | MEAN | 2572 | MAX | 16800 | MIN | 401 | CFSM | 1.47 | IN | 20.04 |
| WTR YR 1985 | TOTAL | 843394 | MEAN | 2311 | MAX | 15900 | MIN | 416 | CFSM | 1.32 | IN | 17.95 |

## PASCAGOULA RIVER BASIN

02473000 LEAF RIVER AT HATTIESBURG, MS--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY         | OCT    | NOV     | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN   | JUL   | AUG  | SEP  |
|-------------|--------|---------|--------|--------|--------|--------|--------|--------|-------|-------|------|------|
| 1           | 2.31   | 4.10    | 7.23   | 4.24   | 6.25   | 13.33  | 5.71   | 5.14   | 2.65  | 2.53  | 2.69 | ---  |
| 2           | 2.29   | 8.19    | 5.64   | 5.79   | 9.17   | 13.12  | 5.68   | 4.73   | 2.63  | 2.60  | 2.66 | ---  |
| 3           | 2.32   | 11.93   | 4.67   | 5.70   | 9.54   | 11.18  | 5.39   | 4.10   | 2.61  | 2.56  | 2.63 | ---  |
| 4           | 2.30   | 9.74    | 5.60   | 5.29   | 9.40   | 9.69   | 4.86   | 3.79   | 2.58  | 2.60  | 2.64 | ---  |
| 5           | 2.31   | 8.50    | 8.92   | 4.75   | 8.27   | 8.63   | 4.49   | 3.61   | 2.55  | 2.55  | 2.62 | ---  |
| 6           | 2.31   | 6.79    | 11.05  | 4.26   | 10.92  | 7.30   | 4.56   | 3.50   | 2.57  | 2.51  | 2.58 | 3.26 |
| 7           | 2.32   | 5.12    | 9.13   | 4.05   | 12.05  | 6.24   | 4.99   | 3.47   | 2.54  | 2.51  | 2.76 | 3.12 |
| 8           | 2.42   | 4.46    | 7.61   | 3.86   | 12.14  | 5.64   | 4.83   | 3.55   | 2.50  | 2.52  | 3.49 | 3.10 |
| 9           | 2.93   | 4.13    | 6.49   | 3.70   | 11.08  | 5.32   | 4.46   | 3.56   | 2.50  | 2.56  | 3.17 | 4.31 |
| 10          | 3.09   | 3.93    | 5.39   | 3.61   | 7.89   | 5.11   | 4.10   | 3.49   | 2.50  | 2.49  | 2.97 | 4.30 |
| 11          | 3.06   | 3.81    | 4.85   | 3.52   | 7.54   | 4.94   | 3.88   | 3.36   | 2.52  | 2.48  | 2.83 | 3.86 |
| 12          | 2.82   | 3.71    | 4.55   | 3.46   | 10.35  | 4.77   | 3.77   | 3.28   | 2.62  | 2.66  | 2.72 | 3.37 |
| 13          | 2.70   | 3.63    | 4.33   | 3.40   | 10.50  | 4.63   | 3.78   | 3.19   | 2.59  | 2.64  | 2.77 | 3.10 |
| 14          | 2.62   | 3.55    | 4.16   | 3.37   | 10.17  | 4.52   | 4.00   | 3.12   | 2.58  | 2.60  | ---  | 2.95 |
| 15          | 2.69   | 3.48    | 4.03   | 3.36   | 8.91   | 4.39   | 4.10   | 3.12   | 2.57  | 2.70  | ---  | 2.83 |
| 16          | 2.99   | 3.62    | 3.93   | 3.41   | 6.88   | 4.30   | 4.23   | 3.14   | 2.55  | 3.09  | ---  | 2.78 |
| 17          | 3.83   | 4.20    | 3.83   | 4.81   | 5.91   | 4.24   | 4.22   | 3.13   | 2.54  | 3.09  | ---  | 2.74 |
| 18          | 5.28   | 5.34    | 3.76   | 6.53   | 5.25   | 4.18   | 4.00   | 3.03   | 2.52  | 2.90  | ---  | 2.70 |
| 19          | 4.95   | 6.16    | 3.71   | 6.43   | 4.93   | 4.09   | 3.78   | 2.98   | 2.73  | 2.90  | ---  | 2.68 |
| 20          | 4.31   | 5.76    | 3.66   | 5.82   | 4.73   | 4.18   | 3.61   | 2.95   | 3.39  | 2.95  | ---  | 2.65 |
| 21          | 3.84   | 5.04    | 3.63   | 4.77   | 4.57   | 7.26   | 3.51   | 2.89   | 3.33  | 2.88  | ---  | 2.64 |
| 22          | 6.48   | 4.65    | 3.61   | 4.14   | 4.41   | 7.06   | 3.44   | 2.93   | 2.96  | 2.75  | ---  | 2.66 |
| 23          | 10.77  | 4.13    | 3.59   | 3.86   | 4.30   | 5.93   | 3.39   | 2.96   | 2.77  | 3.00  | ---  | 3.50 |
| 24          | 13.56  | 3.81    | 3.55   | 3.79   | 4.67   | 5.27   | 3.48   | 2.98   | 2.68  | 4.41  | ---  | 3.79 |
| 25          | 16.09  | 3.64    | 3.51   | 3.86   | 9.03   | 4.91   | 3.85   | 2.91   | 2.59  | 6.09  | ---  | 4.09 |
| 26          | 15.26  | 3.55    | 3.45   | 3.85   | 15.28  | 4.58   | 4.35   | 2.84   | 2.55  | 5.19  | ---  | 3.51 |
| 27          | 10.99  | 3.54    | 3.44   | 3.91   | 14.67  | 4.41   | 4.95   | 2.78   | 2.56  | 4.46  | ---  | 3.12 |
| 28          | 7.08   | 5.77    | 3.42   | 6.26   | 13.19  | 4.52   | 4.65   | 2.74   | 2.61  | 3.89  | ---  | 3.01 |
| 29          | 5.34   | 7.94    | 3.43   | 6.84   | ---    | 4.84   | 5.29   | 2.71   | 2.64  | 3.38  | ---  | 2.94 |
| 30          | 4.73   | 7.78    | 3.47   | 6.35   | ---    | 4.74   | 5.29   | 2.68   | 2.61  | 3.02  | ---  | 3.37 |
| 31          | 4.37   | ---     | 3.48   | 5.96   | ---    | 4.60   | ---    | 2.68   | ---   | 2.80  | ---  | ---  |
| TOTAL       | 158.36 | 160.00  | 151.12 | 142.95 | 242.00 | 187.92 | 130.64 | 101.34 | 79.54 | 95.31 | ---  | ---  |
| MEAN        | 5.11   | 5.33    | 4.87   | 4.61   | 8.64   | 6.06   | 4.35   | 3.27   | 2.65  | 3.07  | ---  | ---  |
| MAX         | 16.09  | 11.93   | 11.05  | 6.84   | 15.28  | 13.33  | 5.71   | 5.14   | 3.39  | 6.09  | ---  | ---  |
| MIN         | 2.29   | 3.48    | 3.42   | 3.36   | 4.30   | 4.09   | 3.39   | 2.68   | 2.50  | 2.48  | ---  | ---  |
| CAL YR 1984 | TOTAL  | 1822.73 | MEAN   | 4.98   | MAX    | 16.61  | MIN    | 2.26   |       |       |      |      |

## PASCAGOULA RIVER BASIN

77

02473460 TALLAHALA CREEK AT WALDRUP, MS

LOCATION.--Lat 31°57'58", long 89°06'55", in SW¼ 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. Datum of gage is 290.00 ft above National Geodetic Vertical Datum of 1929. Prior to October 1979, datum of gage at NGVD. October 1979 to September 1980, non-recording gage and crest-stage gage at same site and datum.

REMARKS.--Estimated daily discharges: July 3 to Aug. 1 and Aug. 19 to Sept. 13. Records good except those for periods of estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--6 years, 173 ft<sup>3</sup>/s, 23.03 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,900 ft<sup>3</sup>/s, Apr. 13, 1974, gage height, 23.18 ft present datum; minimum, 2.4 ft<sup>3</sup>/s, July 24, 1981.

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) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Oct. 22 | 1200 | *3,180                            | *18.49              | Feb. 26 | 1230 | 3,000                             | 18.38               |
| Feb. 6  | 1015 | 2,730                             | 18.21               |         |      |                                   |                     |

Minimum discharge, 3.1 ft<sup>3</sup>/s, Oct. 1; gage height 7.29 ft gage datum.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT    | NOV  | DEC  | JAN  | FEB   | MAR  | APR  | MAY   | JUN   | JUL   | AUG    | SEP   |
|-------|--------|------|------|------|-------|------|------|-------|-------|-------|--------|-------|
| 1     | 3.3    | 22   | 73   | 317  | 621   | 525  | 322  | 53    | 7.1   | 6.1   | 8.0    | 20    |
| 2     | 3.4    | 650  | 55   | 152  | 1020  | 1110 | 123  | 47    | 6.8   | 5.7   | 6.3    | 18    |
| 3     | 3.7    | 1190 | 101  | 90   | 411   | 550  | 88   | 32    | 6.4   | 11    | 6.0    | 17    |
| 4     | 3.8    | 642  | 122  | 75   | 148   | 201  | 64   | 27    | 6.0   | 10    | 6.6    | 16    |
| 5     | 3.6    | 132  | 190  | 59   | 976   | 258  | 52   | 24    | 5.8   | 9.0   | 6.6    | 15    |
| 6     | 3.7    | 74   | 374  | 51   | 2480  | 157  | 85   | 22    | 5.5   | 8.0   | 5.8    | 14    |
| 7     | 4.0    | 47   | 192  | 46   | 1270  | 109  | 90   | 20    | 5.3   | 7.0   | 41     | 15    |
| 8     | 4.3    | 36   | 90   | 43   | 276   | 91   | 54   | 20    | 5.2   | 5.6   | 45     | 16    |
| 9     | 6.1    | 30   | 70   | 43   | 149   | 84   | 39   | 19    | 5.1   | 5.0   | 24     | 18    |
| 10    | 9.2    | 27   | 59   | 40   | 118   | 82   | 32   | 19    | 5.5   | 5.6   | 14     | 17    |
| 11    | 8.9    | 32   | 52   | 38   | 584   | 74   | 29   | 18    | 5.3   | 8.0   | 9.8    | 14    |
| 12    | 6.5    | 49   | 46   | 34   | 1220  | 65   | 32   | 17    | 5.7   | 12    | 7.7    | 13    |
| 13    | 5.2    | 32   | 43   | 32   | 702   | 60   | 104  | 16    | 10    | 15    | 6.1    | 9.0   |
| 14    | 4.8    | 25   | 40   | 31   | 183   | 55   | 100  | 15    | 8.3   | 7.0   | 5.4    | 7.9   |
| 15    | 5.9    | 23   | 38   | 30   | 128   | 50   | 111  | 14    | 6.4   | 8.0   | 7.7    | 6.8   |
| 16    | 16     | 57   | 35   | 31   | 102   | 46   | 105  | 14    | 6.0   | 8.0   | 141    | 6.3   |
| 17    | 66     | 343  | 33   | 280  | 85    | 49   | 62   | 13    | 6.6   | 20    | 188    | 5.9   |
| 18    | 103    | 138  | 32   | 327  | 76    | 44   | 39   | 12    | 7.4   | 26    | 219    | 5.7   |
| 19    | 36     | 95   | 29   | 133  | 70    | 39   | 30   | 11    | 27    | 16    | 170    | 5.4   |
| 20    | 22     | 144  | 29   | 83   | 66    | 39   | 26   | 10    | 25    | 10    | 60     | 5.0   |
| 21    | 259    | 67   | 29   | 57   | 60    | 111  | 24   | 11    | 16    | 8.0   | 36     | 4.8   |
| 22    | 2620   | 44   | 29   | 44   | 55    | 94   | 21   | 15    | 11    | 9.0   | 34     | 4.6   |
| 23    | 1770   | 34   | 26   | 42   | 52    | 66   | 19   | 17    | 8.8   | 40    | 17     | 11    |
| 24    | 1100   | 30   | 25   | 43   | 123   | 86   | 77   | 13    | 7.0   | 36    | 13     | 57    |
| 25    | 669    | 27   | 25   | 46   | 893   | 91   | 134  | 12    | 6.0   | 38    | 10     | 21    |
| 26    | 169    | 25   | 24   | 41   | 2690  | 58   | 123  | 9.9   | 5.5   | 100   | 30     | 14    |
| 27    | 67     | 50   | 23   | 42   | 1450  | 47   | 418  | 8.9   | 7.4   | 110   | 100    | 14    |
| 28    | 46     | 538  | 24   | 232  | 366   | 96   | 164  | 8.4   | 7.7   | 90    | 110    | 10    |
| 29    | 36     | 544  | 28   | 218  | ---   | 111  | 93   | 8.2   | 6.7   | 24    | 40     | 8.4   |
| 30    | 29     | 126  | 34   | 112  | ---   | 66   | 53   | 7.6   | 5.8   | 15    | 25     | 31    |
| 31    | 24     | ---  | 109  | 107  | ---   | 209  | ---  | 7.3   | ---   | 11    | 21     | ---   |
| TOTAL | 7108.4 | 5273 | 2079 | 2919 | 16374 | 4723 | 2713 | 541.3 | 248.3 | 684.0 | 1414.0 | 420.8 |
| MEAN  | 229    | 176  | 67.1 | 94.2 | 585   | 152  | 90.4 | 17.5  | 8.28  | 22.1  | 45.6   | 14.0  |
| MAX   | 2620   | 1190 | 374  | 327  | 2690  | 1110 | 418  | 53    | 27    | 110   | 219    | 57    |
| MIN   | 3.3    | 22   | 23   | 30   | 52    | 39   | 19   | 7.3   | 5.1   | 5.0   | 5.4    | 4.6   |
| CFSM  | 2.25   | 1.73 | .66  | .92  | 5.74  | 1.49 | .89  | .17   | .08   | .22   | .45    | .14   |
| IN.   | 2.59   | 1.92 | .76  | 1.06 | 5.97  | 1.72 | .99  | .20   | .09   | .25   | .52    | .15   |

CAL YR 1984 TOTAL 47912.3 MEAN 131 MAX 2810 MIN 3.3 CFSM 1.28 IN 17.47  
WTR YR 1985 TOTAL 44497.8 MEAN 122 MAX 2690 MIN 3.3 CFSM 1.20 IN 16.23



## PASCAGOULA RIVER BASIN

02473500 TALLAHALA CREEK AT LAUREL, MS

LOCATION.--Lat 31°40'50", long 89°06'55", in NE¼ sec.8, T.8 N., R.11 W., St. Stephens Meridian, Jones County, Hydrologic Unit 03170005, on right bank at downstream side of bridge on State Highway 15, 0.5 mi upstream from Gulf, Mobile and Ohio 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 Mississippi State Highway Department datum. Prior to Dec. 14, 1938, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good except for record from Feb. 27 to June 25, which are fair. Telemeter at station.

AVERAGE DISCHARGE.--47 years, 349 ft<sup>3</sup>/s, 19.91 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,300 ft<sup>3</sup>/s, Apr. 14, 1974, gage height, 23.28 ft, from flood-mark; minimum, 1.8 ft<sup>3</sup>/s, Nov. 3, 1952, Oct. 31, and Nov. 1, 1963; minimum gage height, 1.21 ft, Oct. 31 and Nov. 1, 1963.

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 State Highway Department.

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) |
|--------|------|--------------------------------|------------------|--------------------------------------------|------|--------------------------------|------------------|
| Mar. 1 | 0730 | *3,200                         | *15.42           | No other peak greater than base discharge. |      |                                |                  |

Minimum discharge, 9.0 ft<sup>3</sup>/s, part of each day, Oct. 5, 6, 7, gage height, 1.85 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT     | NOV  | DEC  | JAN  | FEB   | MAR   | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|---------|------|------|------|-------|-------|------|------|------|------|------|------|
| 1     | 10      | 114  | 560  | 110  | 392   | 3090  | 320  | 221  | 41   | 16   | 30   | 74   |
| 2     | 10      | 613  | 298  | 266  | 550   | 2660  | 477  | 195  | 40   | 38   | 24   | 62   |
| 3     | 10      | 1120 | 187  | 394  | 701   | 1960  | 453  | 239  | 39   | 22   | 22   | 100  |
| 4     | 11      | 1090 | 198  | 365  | 769   | 1430  | 285  | 172  | 38   | 22   | 19   | 177  |
| 5     | 9.3     | 1010 | 361  | 243  | 981   | 1300  | 224  | 124  | 37   | 21   | 17   | 161  |
| 6     | 9.4     | 1040 | 550  | 197  | 1110  | 1210  | 204  | 100  | 37   | 21   | 16   | 113  |
| 7     | 9.5     | 884  | 593  | 169  | 1060  | 737   | 216  | 92   | 36   | 24   | 19   | 73   |
| 8     | 22      | 287  | 595  | 144  | 1140  | 438   | 224  | 87   | 35   | 21   | 39   | 65   |
| 9     | 25      | 181  | 404  | 128  | 1750  | 344   | 194  | 83   | 35   | 19   | 35   | 46   |
| 10    | 16      | 143  | 273  | 116  | 2100  | 301   | 150  | 86   | 34   | 18   | 54   | 38   |
| 11    | 20      | 123  | 225  | 106  | 1500  | 275   | 120  | 75   | 33   | 47   | 46   | 40   |
| 12    | 24      | 113  | 197  | 99   | 977   | 253   | 108  | 69   | 32   | 26   | 40   | 78   |
| 13    | 22      | 108  | 175  | 92   | 995   | 232   | 101  | 65   | 32   | 18   | 26   | 47   |
| 14    | 19      | 113  | 157  | 86   | 1010  | 213   | 106  | 59   | 31   | 16   | 21   | 38   |
| 15    | 76      | 101  | 147  | 82   | 1070  | 196   | 186  | 55   | 32   | 16   | 33   | 33   |
| 16    | 34      | 97   | 141  | 88   | 1040  | 183   | 194  | 55   | 32   | 14   | 103  | 28   |
| 17    | 364     | 102  | 135  | 157  | 437   | 172   | 200  | 61   | 32   | 15   | 272  | 25   |
| 18    | 302     | 198  | 131  | 353  | 305   | 163   | 176  | 51   | 34   | 21   | 590  | 22   |
| 19    | 257     | 382  | 128  | 486  | 259   | 156   | 131  | 46   | 47   | 29   | 623  | 20   |
| 20    | 211     | 230  | 123  | 450  | 232   | 167   | 102  | 43   | 32   | 36   | 675  | 19   |
| 21    | 128     | 193  | 119  | 266  | 212   | 302   | 84   | 42   | 51   | 37   | 557  | 18   |
| 22    | 257     | 207  | 116  | 186  | 192   | 386   | 75   | 42   | 62   | 41   | 152  | 17   |
| 23    | 649     | 141  | 114  | 146  | 177   | 349   | 70   | 40   | 46   | 112  | 88   | 65   |
| 24    | 1230    | 108  | 112  | 130  | 623   | 268   | 67   | 41   | 31   | 117  | 81   | 60   |
| 25    | 1270    | 92   | 106  | 131  | 1320  | 216   | 111  | 43   | 23   | 183  | 101  | 98   |
| 26    | 1700    | 84   | 99   | 135  | 2040  | 211   | 282  | 45   | 22   | 171  | 95   | 84   |
| 27    | 1740    | 107  | 95   | 155  | 1710  | 198   | 404  | 45   | 18   | 110  | 101  | 63   |
| 28    | 1260    | 169  | 94   | 265  | 2250  | 192   | 475  | 44   | 16   | 59   | 305  | 45   |
| 29    | 330     | 292  | 93   | 382  | ---   | 227   | 477  | 43   | 15   | 58   | 380  | 36   |
| 30    | 187     | 533  | 93   | 452  | ---   | 259   | 298  | 42   | 19   | 42   | 182  | 128  |
| 31    | 140     | ---  | 100  | 406  | ---   | 266   | ---  | 42   | ---  | 42   | 105  | ---  |
| TOTAL | 10352.2 | 9975 | 6719 | 6785 | 26902 | 18354 | 6514 | 2447 | 1012 | 1432 | 4851 | 1873 |
| MEAN  | 334     | 333  | 217  | 219  | 961   | 592   | 217  | 78.9 | 33.7 | 46.2 | 156  | 62.4 |
| MAX   | 1740    | 1120 | 595  | 486  | 2250  | 3090  | 477  | 239  | 62   | 183  | 675  | 177  |
| MIN   | 9.3     | 84   | 93   | 82   | 177   | 156   | 67   | 40   | 15   | 14   | 16   | 17   |
| CFSM  | 1.40    | 1.40 | .91  | .92  | 4.04  | 2.49  | .91  | .33  | .14  | .19  | .66  | .26  |
| IN.   | 1.62    | 1.56 | 1.05 | 1.06 | 4.20  | 2.87  | 1.02 | .38  | .16  | .22  | .76  | .29  |

|             |       |          |      |     |     |      |     |     |      |      |    |       |
|-------------|-------|----------|------|-----|-----|------|-----|-----|------|------|----|-------|
| CAL YR 1984 | TOTAL | 111366.2 | MEAN | 304 | MAX | 3150 | MIN | 9.3 | CFSM | 1.28 | IN | 17.41 |
| WTR YR 1985 | TOTAL | 97216.2  | MEAN | 266 | MAX | 3090 | MIN | 9.3 | CFSM | 1.12 | IN | 15.20 |

## PASCAGOULA RIVER BASIN

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02474500 TALLAHALA CREEK NEAR RUNNELSTOWN, MS

LOCATION.--Lat 31°19'57", long 89°06'46", in SE¼SE¼ 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 current year (high-water records only, corrected). Monthly discharge only for October 1939, published in WSP 1304.

GAGE.--Water-stage recorder. Datum of gage is 104.58 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1971, at datum 5.00 ft higher.

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--43 years (water years 1939-82), 941 ft<sup>3</sup>/s, 20.88 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,800 ft<sup>3</sup>/s, Feb. 24, 1961, gage height, 29.84 ft in gage well, 30.07 ft from outside gage, present datum; minimum, 29 ft<sup>3</sup>/s, Oct. 31, 1963; minimum gage height, 4.64 ft, Nov. 3, 4-5, 6, 1978.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since about 1865, 30½ ft in April 1900; flood in December 1919 reached a stage of 26½ ft, and flood in about 1865 reached a stage between 26½ ft and 30½ 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 (ft <sup>3</sup> /s) | Gage Height (ft) | Date                                       | Time | Discharge (ft <sup>3</sup> /s) | Gage Height (ft) |
|--------|------|--------------------------------|------------------|--------------------------------------------|------|--------------------------------|------------------|
| Mar. 1 | 2300 | *5,200                         | *15.68           | No other peak greater than base discharge. |      |                                |                  |

Minimum discharge 59 ft<sup>3</sup>/s, July 1, gage height 4.70 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG   | SEP  |
|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|------|
| 1     | 76    | 480   | 1150  | 355   | 1570  | 4650  | 877   | 747  | 92   | 61   | 127   | 334  |
| 2     | 73    | 900   | 1200  | 542   | 1630  | 5180  | 983   | 659  | 91   | 110  | 109   | 246  |
| 3     | 73    | 2520  | 774   | 967   | 1640  | 5160  | 1100  | 583  | 89   | 118  | 91    | 239  |
| 4     | 71    | 2630  | 596   | 1030  | 1660  | 4840  | 974   | 568  | 86   | 103  | 81    | 277  |
| 5     | 70    | 2390  | 1220  | 869   | 1910  | 4020  | 735   | 436  | 82   | 96   | 75    | 318  |
| 6     | 70    | 2090  | 1820  | 644   | 2360  | 3170  | 675   | 343  | 79   | 99   | 82    | 329  |
| 7     | 70    | 1910  | 1770  | 534   | 2470  | 2560  | 668   | 349  | 76   | 93   | 92    | 292  |
| 8     | 70    | 1500  | 1510  | 469   | 2260  | 1770  | 635   | 335  | 74   | 82   | 74    | 216  |
| 9     | 140   | 805   | 1300  | 417   | 2270  | 1270  | 593   | 293  | 73   | 78   | 73    | 183  |
| 10    | 168   | 563   | 999   | 379   | 2600  | 1050  | 509   | 255  | 70   | 72   | 88    | 182  |
| 11    | 142   | 465   | 762   | 352   | 3140  | 924   | 428   | 250  | 74   | 68   | 84    | 146  |
| 12    | 126   | 411   | 643   | 329   | 3350  | 830   | 365   | 225  | 78   | 75   | 105   | 128  |
| 13    | 109   | 377   | 571   | 308   | 2590  | 756   | 342   | 205  | 80   | 238  | 128   | 183  |
| 14    | 105   | 352   | 515   | 288   | 2200  | 689   | 337   | 191  | 78   | 111  | 100   | 161  |
| 15    | 110   | 340   | 475   | 273   | 2090  | 631   | 390   | 178  | 73   | 90   | 134   | 125  |
| 16    | 213   | 362   | 442   | 271   | 2070  | 589   | 471   | 164  | 70   | 139  | 341   | 111  |
| 17    | 581   | 455   | 414   | 635   | 1770  | 576   | 499   | 156  | 69   | 93   | 661   | 99   |
| 18    | 1640  | 418   | 391   | 899   | 1080  | 532   | 486   | 166  | 68   | 74   | 1110  | 92   |
| 19    | 1090  | 562   | 372   | 1060  | 808   | 493   | 437   | 155  | 69   | 70   | 1550  | 87   |
| 20    | 1010  | 908   | 361   | 1140  | 696   | 506   | 357   | 144  | 134  | 87   | 1550  | 82   |
| 21    | 751   | 670   | 352   | 951   | 622   | 1700  | 301   | 137  | 125  | 97   | 1570  | 79   |
| 22    | 944   | 531   | 348   | 665   | 567   | 1650  | 266   | 142  | 108  | 94   | 1130  | 76   |
| 23    | 1240  | 548   | 342   | 519   | 520   | 1310  | 240   | 148  | 122  | 100  | 492   | 151  |
| 24    | 1550  | 441   | 343   | 452   | 605   | 1030  | 252   | 141  | 107  | 275  | 301   | 408  |
| 25    | 2260  | 367   | 328   | 439   | 3020  | 804   | 273   | 137  | 91   | 686  | 311   | 390  |
| 26    | 2390  | 326   | 309   | 431   | 4990  | 664   | 365   | 134  | 84   | 661  | 402   | 260  |
| 27    | 2640  | 341   | 290   | 455   | 5020  | 612   | 1110  | 125  | 82   | 472  | 399   | 217  |
| 28    | 2860  | 549   | 281   | 1240  | 4560  | 692   | 1020  | 118  | 78   | 344  | 358   | 179  |
| 29    | 2340  | 624   | 281   | 1270  | ---   | 698   | 1080  | 110  | 76   | 209  | 718   | 146  |
| 30    | 1010  | 800   | 291   | 1220  | ---   | 731   | 978   | 102  | 69   | 162  | 843   | 138  |
| 31    | 621   | ---   | 320   | 1380  | ---   | 710   | ---   | 96   | ---  | 131  | 525   | ---  |
| TOTAL | 24613 | 25635 | 20770 | 20783 | 60068 | 50797 | 17746 | 7792 | 2547 | 5188 | 13704 | 5874 |
| MEAN  | 794   | 855   | 670   | 670   | 2145  | 1639  | 592   | 251  | 84.9 | 167  | 442   | 196  |
| MAX   | 2860  | 2630  | 1820  | 1380  | 5020  | 5180  | 1110  | 747  | 134  | 686  | 1570  | 408  |
| MIN   | 70    | 326   | 281   | 271   | 520   | 493   | 240   | 96   | 68   | 61   | 73    | 76   |
| CFSM  | 1.30  | 1.40  | 1.10  | 1.10  | 3.51  | 2.68  | .97   | .41  | .14  | .27  | .72   | .32  |
| IN.   | 1.50  | 1.56  | 1.26  | 1.26  | 3.65  | 3.09  | 1.08  | .47  | .15  | .32  | .83   | .36  |

|             |       |           |      |        |     |         |     |    |      |      |    |        |
|-------------|-------|-----------|------|--------|-----|---------|-----|----|------|------|----|--------|
| CAL YR 1984 | TOTAL | 180263318 | MEAN | 492500 | MAX | 1000000 | MIN | 70 | CFSM | 4.7  | IN | 957.16 |
| WTR YR 1985 | TOTAL | 255517    | MEAN | 700    | MAX | 5180    | MIN | 61 | CFSM | 1.14 | IN | 15.53  |

## PASCAGOULA RIVER BASIN

02474560 LEAF RIVER NEAR NEW AUGUSTA, MS

LOCATION.--Lat 31°13'27", long 89°03'01", in NE¼ SW¼ 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.

GAGE.--Water-stage recorder. Datum of gage is 72.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Oct. 18 to Nov. 6, Dec. 25 to Jan. 4, Feb. 10-20, Mar. 2-8, May 21 to June 18, Aug. 20-29. Records good, except for estimated daily discharges, which are poor. National Weather Service telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,900 ft<sup>3</sup>/s, Dec. 30, 1984, gage height 20.13 ft; minimum discharge, 694 ft<sup>3</sup>/s, Oct. 2, 3, 1985, gage height 1.49 ft.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18,000 ft<sup>3</sup>/s, Feb. 27, gage height 17.61 ft; minimum discharge, 694 ft<sup>3</sup>/s, Oct. 2, 3, minimum gage height 1.46 ft, Oct. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT    | NOV    | DEC    | JAN   | FEB    | MAR    | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|--------|--------|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|
| 1     | 702    | 2300   | 5380   | 2110  | 5370   | 16500  | 3410  | 3180  | 860   | 798   | 995   | 1550  |
| 2     | 695    | 3000   | 4470   | 3300  | 6650   | 17500  | 4080  | 3130  | 860   | 898   | 953   | 1410  |
| 3     | 700    | 9700   | 3310   | 4100  | 8000   | 17000  | 3970  | 2450  | 840   | 900   | 909   | 1430  |
| 4     | 710    | 10400  | 3030   | 3600  | 7890   | 14000  | 3630  | 2130  | 840   | 852   | 869   | 1430  |
| 5     | 708    | 8400   | 6200   | 3280  | 7660   | 11200  | 3060  | 1880  | 810   | 855   | 855   | 1420  |
| 6     | 716    | 7100   | 8870   | 2760  | 8400   | 9200   | 2880  | 1680  | 810   | 851   | 864   | 1550  |
| 7     | 718    | 5100   | 9250   | 2440  | 10900  | 6600   | 3060  | 1600  | 790   | 831   | 960   | 1490  |
| 8     | 716    | 4000   | 6630   | 2230  | 11300  | 5600   | 3100  | 1570  | 790   | 812   | 1100  | 1310  |
| 9     | 928    | 3070   | 5330   | 2070  | 11200  | 4560   | 2840  | 1590  | 790   | 809   | 1330  | 1530  |
| 10    | 1170   | 2610   | 4120   | 1950  | 9200   | 4070   | 2520  | 1530  | 810   | 839   | 1100  | 2060  |
| 11    | 1220   | 2410   | 3340   | 1860  | 7400   | 3760   | 2260  | 1450  | 840   | 775   | 1010  | 1740  |
| 12    | 1110   | 2220   | 2990   | 1780  | 8900   | 3530   | 2090  | 1370  | 860   | 760   | 935   | 1510  |
| 13    | 978    | 2110   | 2780   | 1720  | 10200  | 3310   | 2010  | 1290  | 840   | 924   | 935   | 1300  |
| 14    | 918    | 2010   | 2610   | 1660  | 9900   | 3140   | 2030  | 1230  | 840   | 932   | 987   | 1220  |
| 15    | 943    | 1930   | 2460   | 1620  | 8400   | 2970   | 2200  | 1180  | 840   | 895   | 1160  | 1080  |
| 16    | 1030   | 1930   | 2330   | 1610  | 6600   | 2860   | 2270  | 1170  | 810   | 1040  | 3400  | 993   |
| 17    | 1450   | 2210   | 2230   | 2570  | 5100   | 2820   | 2390  | 1160  | 810   | 1200  | 7570  | 948   |
| 18    | 3600   | 2630   | 2150   | 3970  | 4100   | 2690   | 2270  | 1130  | 790   | 1040  | 12500 | 913   |
| 19    | 3300   | 3570   | 2100   | 4390  | 3300   | 2580   | 2090  | 1070  | 804   | 943   | 11900 | 873   |
| 20    | 2800   | 3870   | 2050   | 4200  | 3000   | 2530   | 1910  | 1030  | 1000  | 974   | 5100  | 852   |
| 21    | 2400   | 3380   | 2010   | 3460  | 2950   | 5490   | 1770  | 990   | 1390  | 991   | 3300  | 832   |
| 22    | 6100   | 2890   | 1980   | 2690  | 2770   | 6850   | 1660  | 1020  | 1180  | 973   | 2500  | 830   |
| 23    | 8400   | 2590   | 1960   | 2270  | 2640   | 5230   | 1590  | 1020  | 1010  | 954   | 2000  | 2250  |
| 24    | 10400  | 2250   | 1930   | 2080  | 2650   | 4210   | 1790  | 1040  | 919   | 1320  | 1500  | 2620  |
| 25    | 14700  | 2020   | 1860   | 2030  | 5870   | 3580   | 1830  | 1020  | 860   | 3280  | 1800  | 2690  |
| 26    | 17300  | 1890   | 1780   | 2050  | 13300  | 3150   | 2020  | 990   | 810   | 3500  | 1800  | 2010  |
| 27    | 15200  | 1970   | 1750   | 2010  | 17200  | 2900   | 3310  | 970   | 796   | 2700  | 1800  | 1550  |
| 28    | 9700   | 2510   | 1730   | 3700  | 17400  | 3010   | 3350  | 940   | 812   | 2130  | 2000  | 1330  |
| 29    | 5300   | 4840   | 1730   | 5240  | ---    | 3100   | 3170  | 920   | 852   | 1660  | 2000  | 1200  |
| 30    | 3600   | 5260   | 1750   | 4690  | ---    | 3210   | 3740  | 890   | 838   | 1280  | 2080  | 1180  |
| 31    | 2800   | ---    | 1750   | 4500  | ---    | 3030   | ---   | 890   | ---   | 1100  | 1800  | ---   |
| TOTAL | 121012 | 110170 | 101860 | 87940 | 218250 | 180180 | 78300 | 43510 | 26101 | 37816 | 78012 | 43101 |
| MEAN  | 3904   | 3672   | 3286   | 2837  | 7795   | 5812   | 2610  | 1404  | 870   | 1220  | 2517  | 1437  |
| MAX   | 17300  | 10400  | 9250   | 5240  | 17400  | 17500  | 4080  | 3180  | 1390  | 3500  | 12500 | 2690  |
| MIN   | 695    | 1890   | 1730   | 1610  | 2640   | 2530   | 1590  | 890   | 790   | 760   | 855   | 830   |
| CFSM  | 1.54   | 1.45   | 1.29   | 1.12  | 3.07   | 2.29   | 1.03  | .55   | .34   | .48   | .99   | .57   |
| IN.   | 1.77   | 1.61   | 1.49   | 1.29  | 3.19   | 2.64   | 1.15  | .64   | .38   | .55   | 1.14  | .63   |

CAL YR 1984 TOTAL 1328814 MEAN 3631 MAX 17300 MIN 695 CFSM 1.43 IN 19.45  
WTR YR 1985 TOTAL 1126252 MEAN 3086 MAX 17500 MIN 695 CFSM 1.21 IN 16.48

## PASCAGOULA RIVER BASIN

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02474560 LEAF RIVER NEAR NEW AUGUSTA, MS--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT  | NOV  | DEC   | JAN  | FEB   | MAR   | APR    | MAY  | JUN  | JUL   | AUG   | SEP   |
|-------|------|------|-------|------|-------|-------|--------|------|------|-------|-------|-------|
| 1     | 1.51 | ---  | 7.34  | ---  | 7.33  | 16.57 | 5.26   | 5.07 | ---  | 1.88  | 2.08  | 2.90  |
| 2     | 1.49 | ---  | 6.41  | ---  | 8.54  | ---   | 6.01   | 5.02 | ---  | 2.03  | 2.01  | 2.71  |
| 3     | 1.50 | ---  | 5.03  | ---  | 9.79  | ---   | 5.89   | 4.25 | ---  | 2.03  | 1.94  | 2.74  |
| 4     | 1.51 | ---  | 4.64  | ---  | 9.70  | ---   | 5.51   | 3.86 | ---  | 1.95  | 1.87  | 2.73  |
| 5     | 1.50 | ---  | 8.13  | 4.96 | 9.49  | ---   | 4.87   | 3.53 | ---  | 1.95  | 1.85  | 2.72  |
| 6     | 1.50 | ---  | 10.55 | 4.21 | 10.14 | ---   | 4.65   | 3.26 | ---  | 1.94  | 1.86  | 2.90  |
| 7     | 1.50 | 7.06 | 10.88 | 3.78 | 12.25 | ---   | 4.86   | 3.16 | ---  | 1.90  | 2.02  | 2.81  |
| 8     | 1.49 | 5.90 | 8.54  | 3.51 | 12.61 | ---   | 4.92   | 3.13 | ---  | 1.87  | 2.24  | 2.55  |
| 9     | 1.84 | 4.74 | 7.29  | 3.30 | 12.50 | 6.52  | 4.60   | 3.16 | ---  | 1.86  | 2.58  | 2.87  |
| 10    | 2.21 | 4.11 | 6.03  | 3.16 | ---   | 6.00  | 4.21   | 3.09 | ---  | 1.90  | 2.24  | 3.60  |
| 11    | 2.28 | 3.84 | 5.07  | 3.04 | ---   | 5.66  | 3.88   | 2.98 | ---  | 1.80  | 2.10  | 3.17  |
| 12    | 2.11 | 3.60 | 4.59  | 2.94 | ---   | 5.41  | 3.66   | 2.86 | ---  | 1.76  | 1.98  | 2.85  |
| 13    | 1.89 | 3.44 | 4.29  | 2.87 | ---   | 5.17  | 3.57   | 2.75 | ---  | 2.03  | 1.98  | 2.54  |
| 14    | 1.79 | 3.31 | 4.05  | 2.79 | ---   | 4.97  | 3.60   | 2.67 | ---  | 2.04  | 2.06  | 2.43  |
| 15    | 1.82 | 3.20 | 3.84  | 2.74 | ---   | 4.77  | 3.83   | 2.61 | ---  | 1.97  | 2.33  | 2.20  |
| 16    | 1.96 | 3.20 | 3.69  | 2.73 | ---   | 4.62  | 3.93   | 2.60 | ---  | 2.21  | 5.22  | 2.07  |
| 17    | 2.57 | 3.57 | 3.55  | 4.04 | ---   | 4.58  | 4.09   | 2.58 | ---  | 2.44  | 9.36  | 2.00  |
| 18    | ---  | 4.12 | 3.44  | 5.85 | ---   | 4.42  | 3.94   | 2.54 | ---  | 2.20  | 13.50 | 1.95  |
| 19    | ---  | 5.38 | 3.36  | 6.34 | ---   | 4.28  | 3.71   | 2.46 | 1.93 | 2.04  | 13.00 | 1.88  |
| 20    | ---  | 5.75 | 3.30  | 6.13 | ---   | 4.21  | 3.47   | 2.40 | 2.24 | 2.08  | ---   | 1.84  |
| 21    | ---  | 5.13 | 3.24  | 5.23 | 4.73  | 7.41  | 3.29   | ---  | 2.83 | 2.11  | ---   | 1.81  |
| 22    | ---  | 4.48 | 3.21  | 4.22 | 4.52  | 8.75  | 3.16   | ---  | 2.51 | 2.07  | ---   | 1.81  |
| 23    | ---  | 4.06 | 3.18  | 3.67 | 4.35  | 7.19  | 3.05   | ---  | 2.25 | 2.04  | ---   | 3.77  |
| 24    | ---  | 3.61 | 3.14  | 3.43 | 4.36  | 6.14  | 3.34   | ---  | 2.10 | 2.59  | ---   | 4.32  |
| 25    | ---  | 3.31 | ---   | 3.37 | 7.72  | 5.47  | 3.40   | ---  | 2.00 | 5.10  | ---   | 4.41  |
| 26    | ---  | 3.13 | ---   | 3.39 | 14.17 | 4.98  | 3.66   | ---  | 1.92 | 5.38  | ---   | 3.54  |
| 27    | ---  | 3.23 | ---   | 3.36 | 17.05 | 4.68  | 5.20   | ---  | 1.88 | 4.44  | ---   | 2.91  |
| 28    | ---  | 3.96 | ---   | 5.50 | 17.19 | 4.80  | 5.26   | ---  | 1.91 | 3.71  | ---   | 2.59  |
| 29    | ---  | 6.79 | ---   | 7.20 | ---   | 4.92  | 5.06   | ---  | 1.97 | 3.06  | ---   | 2.39  |
| 30    | ---  | 7.22 | ---   | 6.65 | ---   | 5.04  | 5.66   | ---  | 1.94 | 2.51  | 3.63  | 2.36  |
| 31    | ---  | ---  | ---   | 6.45 | ---   | 4.84  | ---    | ---  | ---  | 2.24  | 3.25  | ---   |
| TOTAL | ---  | ---  | ---   | ---  | ---   | ---   | 129.54 | ---  | ---  | 75.13 | ---   | 81.37 |
| MEAN  | ---  | ---  | ---   | ---  | ---   | ---   | 4.32   | ---  | ---  | 2.42  | ---   | 2.71  |
| MAX   | ---  | ---  | ---   | ---  | ---   | ---   | 6.01   | ---  | ---  | 5.38  | ---   | 4.41  |
| MIN   | ---  | ---  | ---   | ---  | ---   | ---   | 3.05   | ---  | ---  | 1.76  | ---   | 1.81  |

## PASCAGOULA RIVER BASIN

02474600 BOGUE HOMO NEAR RICHTON, MS

LOCATION.--Lat 31°24'12", long 89°01'18", in NE¼NW¼ 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 northwest 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.

GAGE.--Water-stage recorder. Elevation of gage is 117 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Record good.

AVERAGE DISCHARGE.--15 years, 570 ft<sup>3</sup>/s, 22.50 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,900 ft<sup>3</sup>/s, Dec. 28, 1973, gage height, 27.63 ft from flood-mark; minimum, 6.2 ft<sup>3</sup>/s, Aug. 1, 2, 4, 5, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--A flood prior to January 1941, reached a stage of 26½ 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) |
|---------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Feb. 28 | 1415 | *4,350                            | *12.18              |      |      |                                   |                     |

Minimum discharge, 6.4 ft<sup>3</sup>/s, June 8, gage height 2.91 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT  | NOV  | DEC   | JAN   | FEB   | MAR   | APR  | MAY  | JUN   | JUL  | AUG    | SEP  |
|-------|------|------|-------|-------|-------|-------|------|------|-------|------|--------|------|
| 1     | 12   | 120  | 385   | 164   | 1580  | 4280  | 273  | 517  | 16    | 26   | 65     | 60   |
| 2     | 12   | 143  | 293   | 186   | 1590  | 4200  | 277  | 321  | 14    | 37   | 39     | 52   |
| 3     | 22   | 637  | 205   | 231   | 1250  | 3130  | 303  | 266  | 13    | 32   | 29     | 105  |
| 4     | 29   | 827  | 205   | 288   | 986   | 2050  | 320  | 237  | 12    | 22   | 20     | 255  |
| 5     | 32   | 859  | 820   | 233   | 1300  | 1760  | 260  | 202  | 11    | 31   | 17     | 297  |
| 6     | 31   | 899  | 1370  | 176   | 1460  | 1600  | 233  | 151  | 9.5   | 35   | 22     | 266  |
| 7     | 30   | 851  | 1240  | 160   | 1140  | 1240  | 214  | 200  | 7.2   | 31   | 25     | 190  |
| 8     | 37   | 462  | 876   | 145   | 933   | 863   | 219  | 232  | 6.6   | 25   | 25     | 117  |
| 9     | 89   | 196  | 816   | 132   | 927   | 688   | 208  | 208  | 8.5   | 22   | 19     | 80   |
| 10    | 93   | 143  | 749   | 127   | 975   | 505   | 183  | 156  | 9.0   | 27   | 15     | 59   |
| 11    | 75   | 121  | 485   | 117   | 962   | 383   | 142  | 125  | 11    | 22   | 11     | 47   |
| 12    | 58   | 112  | 299   | 107   | 987   | 323   | 117  | 118  | 18    | 15   | 8.7    | 37   |
| 13    | 47   | 115  | 249   | 113   | 836   | 284   | 106  | 102  | 14    | 32   | 11     | 29   |
| 14    | 41   | 104  | 241   | 119   | 781   | 263   | 110  | 83   | 12    | 65   | 18     | 30   |
| 15    | 40   | 95   | 236   | 93    | 846   | 233   | 121  | 68   | 18    | 62   | 59     | 28   |
| 16    | 51   | 99   | 213   | 80    | 876   | 224   | 128  | 53   | 22    | 94   | 73     | 33   |
| 17    | 208  | 148  | 199   | 445   | 631   | 232   | 161  | 43   | 14    | 70   | 90     | 40   |
| 18    | 657  | 175  | 176   | 769   | 374   | 176   | 145  | 38   | 15    | 44   | 129    | 31   |
| 19    | 552  | 160  | 157   | 559   | 285   | 172   | 119  | 34   | 27    | 35   | 171    | 25   |
| 20    | 507  | 219  | 147   | 459   | 249   | 194   | 99   | 32   | 30    | 32   | 174    | 22   |
| 21    | 684  | 196  | 142   | 387   | 227   | 978   | 85   | 32   | 22    | 25   | 134    | 19   |
| 22    | 961  | 168  | 142   | 276   | 209   | 1050  | 73   | 31   | 22    | 64   | 81     | 19   |
| 23    | 791  | 127  | 142   | 178   | 193   | 725   | 67   | 29   | 21    | 81   | 52     | 158  |
| 24    | 508  | 106  | 147   | 162   | 209   | 628   | 83   | 29   | 19    | 70   | 38     | 301  |
| 25    | 562  | 92   | 140   | 171   | 1120  | 549   | 81   | 29   | 15    | 40   | 35     | 281  |
| 26    | 615  | 81   | 126   | 179   | 2500  | 364   | 96   | 23   | 14    | 86   | 46     | 220  |
| 27    | 646  | 163  | 130   | 213   | 3080  | 275   | 236  | 28   | 15    | 132  | 138    | 189  |
| 28    | 586  | 727  | 121   | 1040  | 4240  | 274   | 355  | 20   | 16    | 99   | 176    | 155  |
| 29    | 308  | 739  | 107   | 1170  | ---   | 294   | 435  | 19   | 17    | 64   | 207    | 110  |
| 30    | 178  | 447  | 129   | 786   | ---   | 276   | 666  | 17   | 26    | 50   | 161    | 91   |
| 31    | 141  | ---  | 147   | 966   | ---   | 283   | ---  | 17   | ---   | 85   | 101    | ---  |
| TOTAL | 8603 | 9331 | 10834 | 10231 | 30746 | 28496 | 5915 | 3460 | 474.8 | 1555 | 2189.7 | 3346 |
| MEAN  | 278  | 311  | 349   | 330   | 1098  | 919   | 197  | 112  | 15.8  | 50.2 | 70.6   | 112  |
| MAX   | 961  | 899  | 1370  | 1170  | 4240  | 4280  | 666  | 517  | 30    | 132  | 207    | 301  |
| MIN   | 12   | 81   | 107   | 80    | 193   | 172   | 67   | 17   | 6.6   | 15   | 8.7    | 19   |
| CFSM  | .81  | .90  | 1.02  | .96   | 3.19  | 2.67  | .57  | .33  | .05   | .15  | .21    | .33  |
| IN.   | .93  | 1.01 | 1.17  | 1.11  | 3.32  | 3.08  | .64  | .37  | .05   | .17  | .24    | .36  |

CAL YR 1984 TOTAL 156760.0 MEAN 428 MAX 3430 MIN 10 CFSM 1.24 IN 16.95  
WTR YR 1985 TOTAL 115181.5 MEAN 316 MAX 4280 MIN 6.6 CFSM .92 IN 12.46



## PASCAGOULA RIVER BASIN

83

02475000 LEAF RIVER NEAR McLAIN, MS

LOCATION.--Lat 31°06'10", long 88°48'30", in SE¼ sec.29, T.2 N., R.8 W., St. Stephens Meridian, Greene County, on downstream side of right main pier of bridge on U.S. Highway 98, 1.2 mi east of McLain, 1.8 mi downstream from Atkinson Creek, 5.5 mi upstream from Big Oktibee Creek, and 14.6 mi upstream from confluence with Chickasawhay River.

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

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

GAGE.--Water-stage recorder. Datum of gage is 42.15 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 8, 1940, nonrecording gage at same site and datum.

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

AVERAGE DISCHARGE.--46 years, 5,451 ft<sup>3</sup>/s, 21.18 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 128,000 ft<sup>3</sup>/s, Feb. 26, 1961, gage height, 31.64 ft; minimum, 478 ft<sup>3</sup>/s, Oct. 22, 1963; minimum gage height, 1.78 ft, Oct. 28, 29; Nov. 1, 2, 1968.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24,500 ft<sup>3</sup>/s, Mar. 2, gage height, 19.39 ft; minimum, 862 ft<sup>3</sup>/s, Oct. 1-4, gage height 2.50 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| 1     | 876    | 3280   | 6800   | 2450   | 7930   | 22600  | 3890  | 4760  | 1080  | 991   | 1270  | 1920  |
| 2     | 866    | 3200   | 6470   | 2980   | 9390   | 24300  | 4690  | 4330  | 1060  | 1080  | 1210  | 1690  |
| 3     | 864    | 7590   | 5150   | 4540   | 11000  | 24300  | 4830  | 3830  | 1040  | 1150  | 1120  | 2420  |
| 4     | 870    | 12100  | 4370   | 5000   | 11100  | 23100  | 4670  | 3200  | 1010  | 1070  | 1060  | 2940  |
| 5     | 880    | 11500  | 11200  | 4570   | 11100  | 20100  | 4150  | 2790  | 993   | 1030  | 1010  | 2220  |
| 6     | 877    | 9400   | 12600  | 3880   | 13400  | 16200  | 3800  | 2510  | 967   | 1060  | 1050  | 2080  |
| 7     | 880    | 7500   | 12900  | 3280   | 13800  | 12300  | 3820  | 2360  | 955   | 1050  | 1150  | 2040  |
| 8     | 878    | 5850   | 11200  | 2950   | 14600  | 9060   | 3870  | 2330  | 942   | 1020  | 1300  | 1780  |
| 9     | 927    | 4420   | 8340   | 2700   | 14600  | 6960   | 3650  | 2250  | 927   | 992   | 1570  | 1560  |
| 10    | 1300   | 3360   | 6840   | 2500   | 13900  | 5840   | 3320  | 2180  | 1040  | 977   | 1460  | 2070  |
| 11    | 1440   | 3170   | 5560   | 2350   | 11000  | 5160   | 2980  | 2050  | 1060  | 971   | 1250  | 2180  |
| 12    | 1400   | 2690   | 4650   | 2230   | 10800  | 4680   | 2710  | 1920  | 1040  | 907   | 1160  | 1810  |
| 13    | 1300   | 2470   | 4050   | 2150   | 12400  | 4350   | 2560  | 1790  | 1040  | 947   | 1120  | 1560  |
| 14    | 1220   | 2330   | 3650   | 2080   | 12400  | 4060   | 2510  | 1700  | 1010  | 1120  | 1160  | 1400  |
| 15    | 1210   | 2210   | 3340   | 2030   | 11400  | 3820   | 2840  | 1660  | 971   | 1120  | 1470  | 1270  |
| 16    | 1240   | 2140   | 3120   | 1990   | 10000  | 3610   | 2890  | 1580  | 981   | 1950  | 2910  | 1140  |
| 17    | 1430   | 2260   | 2940   | 4160   | 7850   | 3620   | 2950  | 1540  | 963   | 1550  | 5970  | 1070  |
| 18    | 2720   | 2670   | 2790   | 6330   | 6240   | 3550   | 2930  | 1510  | 944   | 1460  | 10700 | 1040  |
| 19    | 4780   | 3550   | 2690   | 6530   | 4870   | 3300   | 2710  | 1470  | 1000  | 1240  | 13700 | 993   |
| 20    | 4220   | 4390   | 2580   | 6020   | 4270   | 3180   | 2480  | 1400  | 1070  | 1210  | 9850  | 957   |
| 21    | 3930   | 4310   | 2510   | 5340   | 3920   | 7180   | 2270  | 1340  | 1370  | 1210  | 5050  | 930   |
| 22    | 10000  | 3580   | 2440   | 4250   | 3660   | 10700  | 2120  | 1350  | 1510  | 1160  | 3910  | 915   |
| 23    | 9050   | 3180   | 2400   | 3490   | 3460   | 8850   | 2000  | 1360  | 1280  | 1290  | 3000  | 3310  |
| 24    | 10300  | 2790   | 2360   | 3080   | 4010   | 6630   | 2280  | 1370  | 1150  | 1400  | 2250  | 9530  |
| 25    | 12200  | 2440   | 2320   | 2930   | 6680   | 5480   | 2790  | 1350  | 1080  | 2290  | 2110  | 6480  |
| 26    | 14900  | 2240   | 2260   | 2840   | 14000  | 4750   | 2700  | 1310  | 1020  | 3830  | 2430  | 4130  |
| 27    | 16800  | 2550   | 2190   | 2780   | 18300  | 4140   | 3780  | 1260  | 963   | 3440  | 2440  | 2810  |
| 28    | 16200  | 5490   | 2140   | 5520   | 20900  | 4020   | 4610  | 1200  | 972   | 2780  | 2570  | 2170  |
| 29    | 10800  | 5750   | 2100   | 8200   | ---    | 4100   | 4150  | 1170  | 1000  | 2180  | 2420  | 1840  |
| 30    | 6230   | 6990   | 2160   | 7690   | ---    | 4140   | 4750  | 1130  | 1030  | 1710  | 2470  | 1740  |
| 31    | 4120   | ---    | 2240   | 6820   | ---    | 4010   | ---   | 1100  | ---   | 1410  | 2320  | ---   |
| TOTAL | 144708 | 135400 | 146360 | 123660 | 286980 | 268090 | 99700 | 61100 | 31468 | 45595 | 92460 | 67995 |
| MEAN  | 4668   | 4513   | 4721   | 3989   | 10250  | 8648   | 3323  | 1971  | 1049  | 1471  | 2983  | 2267  |
| MAX   | 16800  | 12100  | 12900  | 8200   | 20900  | 24300  | 4830  | 4760  | 1510  | 3830  | 13700 | 9530  |
| MIN   | 864    | 2140   | 2100   | 1990   | 3460   | 3180   | 2000  | 1100  | 927   | 907   | 1010  | 915   |
| CFSM  | 1.34   | 1.29   | 1.35   | 1.14   | 2.93   | 2.47   | .95   | .56   | .30   | .42   | .85   | .65   |
| IN.   | 1.54   | 1.44   | 1.56   | 1.32   | 3.05   | 2.85   | 1.06  | .65   | .33   | .49   | .98   | .72   |

CAL YR 1984 TOTAL 1890674 MEAN 5166 MAX 28800 MIN 864 CFSM 1.48 IN 20.12  
WTR YR 1985 TOTAL 1503516 MEAN 4119 MAX 24300 MIN 864 CFSM 1.18 IN 16.00

PASCAGOULA RIVER BASIN  
02475500 CHUNKY RIVER NEAR CHUNKY, MS

LOCATION.--Lat 32°19'35", long 88°54'35", in SE¼SW¼ 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 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 National Geodetic Vertical Datum of 1929. Prior to Mar. 24, 1939, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Jan. 21 to Jan. 29. Records good except for estimated daily discharges, which are fair. National Weather Service telemeter at station.

AVERAGE DISCHARGE.--47 years, 499 ft<sup>3</sup>/s, 18.36 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,900 ft<sup>3</sup>/s, Mar. 4, 1979; gage height, 26.64 ft; minimum, 1.6 ft<sup>3</sup>/s Sept. 28-30, 1954; minimum gage height, 2.08 ft, Oct. 21, 22, 1963.

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) |
|--------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Feb. 7 | 1400 | *4,440                            | *11.07              |      |      |                                   |                     |

Minimum discharge, 14.0 ft<sup>3</sup>/s, Oct. 1, 2, 3; gage height, 2.18 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT  | NOV  | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG   | SEP  |
|-------|------|------|-------|-------|-------|-------|-------|------|------|------|-------|------|
| 1     | 14   | 69   | 260   | 396   | 2060  | 953   | 513   | 476  | 53   | 20   | 89    | 78   |
| 2     | 14   | 854  | 649   | 1040  | 2970  | 1300  | 402   | 753  | 52   | 35   | 77    | 67   |
| 3     | 15   | 1150 | 2380  | 676   | 3030  | 977   | 352   | 550  | 47   | 41   | 69    | 58   |
| 4     | 16   | 773  | 2880  | 408   | 1320  | 659   | 289   | 410  | 41   | 29   | 64    | 54   |
| 5     | 16   | 293  | 2740  | 361   | 2210  | 529   | 247   | 299  | 37   | 23   | 56    | 52   |
| 6     | 16   | 192  | 1300  | 292   | 3260  | 436   | 375   | 242  | 34   | 20   | 61    | 48   |
| 7     | 19   | 133  | 786   | 244   | 4230  | 368   | 440   | 208  | 30   | 19   | 420   | 47   |
| 8     | 26   | 108  | 516   | 222   | 2370  | 336   | 303   | 188  | 28   | 18   | 476   | 48   |
| 9     | 27   | 93   | 404   | 202   | 855   | 323   | 230   | 168  | 26   | 15   | 271   | 61   |
| 10    | 27   | 85   | 345   | 188   | 654   | 314   | 198   | 175  | 26   | 16   | 139   | 61   |
| 11    | 25   | 85   | 305   | 212   | 1420  | 289   | 180   | 167  | 40   | 22   | 93    | 49   |
| 12    | 24   | 95   | 274   | 215   | 2440  | 269   | 226   | 154  | 58   | 41   | 71    | 40   |
| 13    | 24   | 89   | 251   | 170   | 2540  | 251   | 432   | 138  | 43   | 56   | 59    | 33   |
| 14    | 24   | 80   | 240   | 166   | 1530  | 239   | 396   | 124  | 36   | 27   | 54    | 29   |
| 15    | 32   | 74   | 221   | 161   | 737   | 227   | 517   | 113  | 30   | 28   | 70    | 27   |
| 16    | 33   | 194  | 204   | 157   | 577   | 214   | 789   | 105  | 28   | 28   | 812   | 27   |
| 17    | 111  | 743  | 191   | 414   | 489   | 206   | 545   | 96   | 25   | 56   | 2260  | 24   |
| 18    | 238  | 522  | 176   | 789   | 434   | 198   | 354   | 88   | 24   | 81   | 2110  | 22   |
| 19    | 113  | 352  | 174   | 437   | 400   | 184   | 272   | 83   | 31   | 37   | 604   | 21   |
| 20    | 70   | 428  | 166   | 314   | 388   | 178   | 227   | 80   | 41   | 23   | 248   | 19   |
| 21    | 198  | 284  | 161   | 200   | 361   | 196   | 201   | 79   | 37   | 17   | 172   | 19   |
| 22    | 972  | 202  | 157   | 150   | 329   | 326   | 181   | 79   | 30   | 18   | 134   | 19   |
| 23    | 1110 | 165  | 153   | 115   | 304   | 327   | 170   | 86   | 24   | 271  | 110   | 39   |
| 24    | 1230 | 143  | 145   | 128   | 488   | 323   | 508   | 82   | 20   | 234  | 94    | 200  |
| 25    | 872  | 130  | 141   | 140   | 1710  | 325   | 956   | 75   | 18   | 245  | 85    | 134  |
| 26    | 308  | 120  | 143   | 130   | 2440  | 249   | 771   | 69   | 18   | 968  | 238   | 81   |
| 27    | 172  | 190  | 141   | 120   | 2720  | 218   | 1700  | 63   | 21   | 1040 | 719   | 89   |
| 28    | 120  | 742  | 135   | 240   | 1720  | 262   | 1070  | 59   | 22   | 872  | 828   | 89   |
| 29    | 97   | 910  | 137   | 490   | ---   | 345   | 585   | 55   | 23   | 245  | 226   | 63   |
| 30    | 84   | 424  | 137   | 398   | ---   | 281   | 391   | 53   | 21   | 157  | 119   | 93   |
| 31    | 73   | ---  | 145   | 898   | ---   | 305   | ---   | 52   | ---  | 114  | 94    | ---  |
| TOTAL | 6120 | 9722 | 16057 | 10073 | 43986 | 11607 | 13820 | 5369 | 964  | 4816 | 10922 | 1691 |
| MEAN  | 197  | 324  | 518   | 325   | 1571  | 374   | 461   | 173  | 32.1 | 155  | 352   | 56.4 |
| MAX   | 1230 | 1150 | 2880  | 1040  | 4230  | 1300  | 1700  | 753  | 58   | 1040 | 2260  | 200  |
| MIN   | 14   | 69   | 135   | 115   | 304   | 178   | 170   | 52   | 18   | 15   | 54    | 19   |
| CFSM  | .53  | .88  | 1.40  | .88   | 4.26  | 1.01  | 1.25  | .47  | .09  | .42  | .95   | .15  |
| IN.   | .62  | .98  | 1.62  | 1.02  | 4.43  | 1.17  | 1.39  | .54  | .10  | .49  | 1.10  | .17  |

|             |       |        |          |          |        |           |          |
|-------------|-------|--------|----------|----------|--------|-----------|----------|
| CAL YR 1984 | TOTAL | 147622 | MEAN 403 | MAX 3400 | MIN 14 | CFSM 1.09 | IN 14.88 |
| WTR YR 1985 | TOTAL | 135147 | MEAN 370 | MAX 4230 | MIN 14 | CFSM 1.00 | IN 13.62 |

## PASCAGOULA RIVER BASIN

85

02476500 SOWASHEE CREEK AT MERIDIAN, MS

LOCATION.--Lat 32°22'08", long 88°40'35", in NE¼ sec.17, T.6 N., R.16 E., Choctaw Meridian, Lauderdale County, Hydrologic Unit 03170001, near right bank on upstream side of bridge on U.S. Highway 45, 0.6 mi downstream from Southern Railway System bridge, and 9.5 mi upstream from mouth.

DRAINAGE AREA.--52.1 mi<sup>2</sup>.

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

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

GAGE.--Water-stage recorder. Datum of gage is 305.95 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 13, 1959, water-stage recorder and nonrecording gage at site 0.4 mi upstream at datum 3.00 ft higher.

REMARKS.--Estimated daily discharges: Feb. 1-7, 25 and 26. Records good except those for periods of estimated daily discharges, which are poor. National Weather Service telemeter at station.

AVERAGE DISCHARGE.--35 years, 66.7 ft<sup>3</sup>/s, 17.38 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,530 ft<sup>3</sup>/s, Apr. 6, 1964, gage height, 20.95 ft; maximum gage height, 22.98 ft, Mar. 4, 1979; minimum discharge, 0.20 ft<sup>3</sup>/s, Oct. 4, 1954, and at times during July, August, September 1957.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1900, 29.5 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 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<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|---------|---------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Feb. 25 | Unknown | 950                               | Unknown             |      |      |                                   |                     |

Minimum discharge, 1.1 ft<sup>3</sup>/s, Aug. 14, Sept. 2; minimum gage height, 1.99 ft, Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT    | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY   | JUN   | JUL   | AUG   | SEP  |
|-------|--------|------|------|------|------|------|------|-------|-------|-------|-------|------|
| 1     | 1.5    | 35   | 57   | 38   | 624  | 281  | 67   | 24    | 9.2   | 7.2   | 4.5   | 1.7  |
| 2     | 1.5    | 245  | 595  | 26   | 370  | 205  | 67   | 30    | 8.6   | 11    | 9.8   | 1.5  |
| 3     | 1.5    | 109  | 518  | 22   | 165  | 152  | 46   | 21    | 8.1   | 8.7   | 7.3   | 1.6  |
| 4     | 1.5    | 75   | 138  | 22   | 123  | 126  | 36   | 18    | 7.8   | 7.6   | 5.4   | 1.7  |
| 5     | 1.6    | 62   | 170  | 19   | 250  | 117  | 38   | 15    | 7.7   | 7.1   | 4.1   | 1.8  |
| 6     | 1.7    | 53   | 140  | 16   | 440  | 86   | 59   | 13    | 7.5   | 7.6   | 3.9   | 1.8  |
| 7     | 1.8    | 49   | 71   | 16   | 180  | 68   | 35   | 13    | 7.8   | 8.2   | 11    | 1.7  |
| 8     | 2.0    | 47   | 54   | 15   | 126  | 58   | 28   | 12    | 7.2   | 7.6   | 6.6   | 1.8  |
| 9     | 2.4    | 47   | 46   | 15   | 95   | 54   | 23   | 66    | 7.7   | 7.3   | 4.4   | 2.0  |
| 10    | 2.5    | 66   | 40   | 18   | 75   | 52   | 21   | 120   | 12    | 7.0   | 4.3   | 2.2  |
| 11    | 2.5    | 69   | 35   | 18   | 528  | 48   | 21   | 32    | 13    | 9.8   | 3.0   | 1.8  |
| 12    | 2.1    | 51   | 29   | 15   | 223  | 47   | 23   | 21    | 12    | 6.6   | 2.1   | 1.7  |
| 13    | 2.0    | 48   | 37   | 14   | 146  | 41   | 32   | 15    | 10    | 6.9   | 1.5   | 1.8  |
| 14    | 2.1    | 47   | 41   | 14   | 110  | 47   | 26   | 13    | 8.9   | 5.5   | 4.2   | 1.7  |
| 15    | 12     | 50   | 33   | 14   | 83   | 38   | 43   | 11    | 10    | 5.1   | 2.0   | 1.4  |
| 16    | 6.5    | 120  | 32   | 23   | 64   | 35   | 38   | 11    | 9.3   | 17    | 233   | 1.4  |
| 17    | 78     | 76   | 30   | 68   | 54   | 32   | 28   | 9.8   | 9.1   | 21    | 101   | 1.4  |
| 18    | 26     | 74   | 27   | 31   | 49   | 30   | 22   | 9.2   | 10    | 9.5   | 12    | 1.4  |
| 19    | 13     | 133  | 24   | 22   | 47   | 27   | 19   | 9.1   | 15    | 5.9   | 6.0   | 1.3  |
| 20    | 12     | 70   | 23   | 18   | 43   | 25   | 17   | 10    | 12    | 5.0   | 4.2   | 1.3  |
| 21    | 413    | 54   | 23   | 14   | 38   | 44   | 17   | 11    | 9.8   | 4.3   | 2.9   | 1.4  |
| 22    | 312    | 47   | 22   | 14   | 35   | 99   | 15   | 13    | 8.9   | 4.7   | 2.2   | 1.3  |
| 23    | 118    | 44   | 21   | 15   | 34   | 47   | 15   | 14    | 8.8   | 6.2   | 1.9   | 5.6  |
| 24    | 145    | 42   | 20   | 15   | 235  | 72   | 229  | 11    | 9.2   | 6.4   | 13    | 3.6  |
| 25    | 69     | 40   | 19   | 15   | 950  | 38   | 70   | 11    | 11    | 205   | 7.6   | 2.2  |
| 26    | 52     | 40   | 18   | 13   | 720  | 30   | 58   | 10    | 7.1   | 25    | 3.5   | 1.9  |
| 27    | 44     | 236  | 18   | 26   | 240  | 31   | 71   | 9.8   | 7.5   | 14    | 4.8   | 1.7  |
| 28    | 46     | 192  | 18   | 46   | 176  | 46   | 42   | 10    | 7.3   | 9.0   | 3.5   | 1.7  |
| 29    | 39     | 86   | 19   | 24   | ---  | 34   | 30   | 10    | 6.6   | 7.2   | 2.6   | 1.9  |
| 30    | 34     | 62   | 20   | 97   | ---  | 28   | 24   | 11    | 6.8   | 6.8   | 2.1   | 36   |
| 31    | 31     | ---  | 21   | 166  | ---  | 127  | ---  | 10    | ---   | 5.6   | 1.8   | ---  |
| TOTAL | 1477.2 | 2369 | 2359 | 889  | 6223 | 2165 | 1260 | 593.9 | 275.9 | 465.8 | 476.2 | 90.3 |
| MEAN  | 47.7   | 79.0 | 76.1 | 28.7 | 222  | 69.8 | 42.0 | 19.2  | 9.20  | 15.0  | 15.4  | 3.01 |
| MAX   | 413    | 245  | 595  | 166  | 950  | 281  | 229  | 120   | 15    | 205   | 233   | 36   |
| MIN   | 1.5    | 35   | 18   | 13   | 34   | 25   | 15   | 9.1   | 6.6   | 4.3   | 1.5   | 1.3  |
| CFSM  | .92    | 1.52 | 1.46 | .55  | 4.26 | 1.34 | .81  | .37   | .18   | .29   | .30   | .06  |
| IN.   | 1.05   | 1.69 | 1.68 | .63  | 4.44 | 1.55 | .90  | .42   | .20   | .33   | .34   | .06  |

|             |       |         |           |         |         |           |          |
|-------------|-------|---------|-----------|---------|---------|-----------|----------|
| CAL YR 1984 | TOTAL | 23461.6 | MEAN 64.1 | MAX 886 | MIN 1.4 | CFSM 1.23 | IN 16.75 |
| WTR YR 1985 | TOTAL | 18644.3 | MEAN 51.1 | MAX 950 | MIN 1.3 | CFSM .98  | IN 13.31 |

## PASCAGOULA RIVER BASIN

02476600 OKATIBBEE CREEK AT ARUNDEL, MS

LOCATION.--Lat 32°17'55", long 88°45'15", in SE¼SW¼ 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 National Geodetic Vertical Datum of 1929 (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: Apr. 27-30. Records good. Flow from 154 mi<sup>2</sup> above the station, 21.3 mi upstream, regulated by Okatibbee Lake since November 1968. U. S. Army Corps of Engineer telemeter at station.

COOPERATION.--Six discharge measurements were furnished by U. S. Army Corps of Engineers.

AVERAGE DISCHARGE.--17 years, 544 ft<sup>3</sup>/s, 21.60 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,500 ft<sup>3</sup>/s, Apr. 13, 1979, gage height, 21.51 ft; minimum daily, 20 ft<sup>3</sup>/s, Oct. 5, and 26, 1968.

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).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,700 ft<sup>3</sup>/s, Feb. 26, gage height, 16.44 ft; minimum daily, 41 ft<sup>3</sup>/s, Nov. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY         | OCT   | NOV    | DEC   | JAN  | FEB   | MAR   | APR  | MAY  | JUN  | JUL  | AUG  | SEP   |
|-------------|-------|--------|-------|------|-------|-------|------|------|------|------|------|-------|
| 1           | 71    | 75     | 260   | 231  | 1430  | 1300  | 314  | 167  | 78   | 74   | 63   | 120   |
| 2           | 54    | 434    | 680   | 265  | 1030  | 1230  | 285  | 169  | 71   | 104  | 84   | 114   |
| 3           | 53    | 325    | 2020  | 262  | 778   | 1110  | 270  | 152  | 71   | 104  | 72   | 114   |
| 4           | 52    | 203    | 927   | 274  | 951   | 1020  | 225  | 140  | 69   | 102  | 71   | 114   |
| 5           | 54    | 153    | 576   | 261  | 2430  | 826   | 215  | 134  | 70   | 101  | 68   | 113   |
| 6           | 54    | 131    | 709   | 254  | 2890  | 688   | 273  | 128  | 69   | 103  | 71   | 111   |
| 7           | 56    | 102    | 896   | 253  | 1320  | 639   | 230  | 121  | 69   | 101  | 187  | 110   |
| 8           | 58    | 72     | 1050  | 249  | 1130  | 610   | 192  | 119  | 65   | 120  | 173  | 115   |
| 9           | 64    | 61     | 770   | 245  | 1260  | 592   | 174  | 118  | 65   | 108  | 101  | 118   |
| 10          | 63    | 66     | 420   | 202  | 1220  | 575   | 162  | 544  | 70   | 99   | 88   | 114   |
| 11          | 62    | 79     | 341   | 180  | 1720  | 557   | 157  | 186  | 78   | 108  | 82   | 108   |
| 12          | 61    | 54     | 321   | 169  | 1390  | 431   | 162  | 141  | 73   | 136  | 82   | 111   |
| 13          | 61    | 48     | 325   | 163  | 766   | 375   | 193  | 127  | 65   | 109  | 81   | 106   |
| 14          | 60    | 44     | 335   | 162  | 583   | 372   | 185  | 117  | 65   | 110  | 84   | 102   |
| 15          | 104   | 43     | 266   | 154  | 498   | 345   | 219  | 113  | 78   | 89   | 113  | 103   |
| 16          | 77    | 141    | 230   | 144  | 444   | 305   | 243  | 104  | 72   | 89   | 926  | 103   |
| 17          | 232   | 147    | 217   | 314  | 409   | 291   | 190  | 101  | 62   | 106  | 1100 | 102   |
| 18          | 123   | 145    | 210   | 285  | 385   | 279   | 165  | 97   | 67   | 106  | 326  | 100   |
| 19          | 87    | 274    | 183   | 235  | 370   | 265   | 149  | 92   | 101  | 84   | 177  | 99    |
| 20          | 74    | 180    | 164   | 207  | 356   | 220   | 140  | 90   | 79   | 77   | 149  | 99    |
| 21          | 805   | 147    | 163   | 185  | 342   | 213   | 133  | 93   | 70   | 71   | 136  | 98    |
| 22          | 1230  | 119    | 160   | 177  | 329   | 384   | 127  | 96   | 66   | 72   | 131  | 94    |
| 23          | 350   | 97     | 152   | 187  | 320   | 284   | 127  | 90   | 64   | 84   | 126  | 146   |
| 24          | 269   | 86     | 150   | 186  | 534   | 294   | 653  | 90   | 61   | 77   | 151  | 125   |
| 25          | 176   | 65     | 147   | 185  | 2050  | 241   | 444  | 86   | 63   | 596  | 217  | 116   |
| 26          | 128   | 64     | 145   | 177  | 3330  | 197   | 249  | 84   | 67   | 209  | 146  | 112   |
| 27          | 106   | 319    | 143   | 182  | 1490  | 182   | 300  | 83   | 63   | 105  | 140  | 105   |
| 28          | 107   | 655    | 143   | 289  | 1030  | 209   | 270  | 81   | 65   | 63   | 135  | 101   |
| 29          | 99    | 253    | 132   | 253  | ---   | 211   | 230  | 99   | 61   | 74   | 126  | 96    |
| 30          | 89    | 224    | 117   | 285  | ---   | 179   | 190  | 89   | 65   | 66   | 121  | 347   |
| 31          | 84    | ---    | 115   | 452  | ---   | 316   | ---  | 82   | ---  | 62   | 119  | ---   |
| TOTAL       | 4963  | 4806   | 12467 | 7067 | 30785 | 14740 | 6866 | 3933 | 2082 | 3509 | 5646 | 3516  |
| MEAN        | 160   | 160    | 402   | 228  | 1099  | 475   | 229  | 127  | 69.4 | 113  | 182  | 117   |
| MAX         | 1230  | 655    | 2020  | 452  | 3330  | 1300  | 653  | 544  | 101  | 596  | 1100 | 347   |
| MIN         | 52    | 43     | 115   | 144  | 320   | 179   | 127  | 81   | 61   | 62   | 63   | 94    |
| CFSM        | .47   | .47    | 1.18  | .67  | 3.21  | 1.39  | .67  | .37  | .20  | .33  | .53  | .34   |
| IN.         | .54   | .52    | 1.36  | .77  | 3.35  | 1.60  | .75  | .43  | .23  | .38  | .61  | .38   |
| CAL YR 1984 | TOTAL | 144846 | MEAN  | 396  | MAX   | 2580  | MIN  | 43   | CFSM | 1.16 | IN   | 15.76 |
| WTR YR 1985 | TOTAL | 100380 | MEAN  | 275  | MAX   | 3330  | MIN  | 43   | CFSM | .80  | IN   | 10.92 |

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY         | OCT    | NOV    | DEC     | JAN       | FEB    | MAR       | APR  | MAY      | JUN   | JUL    | AUG    | SEP    |  |
|-------------|--------|--------|---------|-----------|--------|-----------|------|----------|-------|--------|--------|--------|--|
| 1           | 3.32   | 3.38   | 5.13    | 4.60      | 10.63  | 10.09     | 5.22 | 4.24     | 3.18  | 3.05   | 3.44   | 3.51   |  |
| 2           | 3.06   | 6.10   | 7.04    | 4.85      | 8.86   | 9.77      | 5.02 | 4.26     | 3.09  | 3.44   | 3.71   | 3.45   |  |
| 3           | 3.04   | 5.61   | 12.86   | 4.82      | 7.65   | 9.29      | 4.91 | 4.09     | 3.09  | 3.43   | 3.52   | 3.45   |  |
| 4           | 3.01   | 4.74   | 8.47    | 4.89      | 8.51   | 8.87      | 4.59 | 3.97     | 3.09  | 3.40   | 3.48   | 3.46   |  |
| 5           | 3.02   | 4.30   | 6.94    | 4.78      | 13.62  | 7.92      | 4.51 | 3.90     | 3.10  | 3.38   | 3.42   | 3.45   |  |
| 6           | 2.99   | 4.09   | 7.52    | 4.72      | 15.00  | 7.27      | 4.95 | 3.83     | 3.09  | 3.39   | 3.44   | 3.42   |  |
| 7           | 3.01   | 3.76   | 8.33    | 4.69      | 10.12  | 7.04      | 4.64 | 3.76     | 3.10  | 3.37   | 4.66   | 3.42   |  |
| 8           | 3.01   | 3.38   | 9.01    | 4.65      | 9.37   | 6.90      | 4.33 | 3.73     | 3.05  | 3.57   | 4.50   | 3.47   |  |
| 9           | 3.09   | 3.21   | 7.78    | 4.60      | 9.90   | 6.81      | 4.18 | 3.70     | 3.05  | 3.43   | 3.76   | 3.50   |  |
| 10          | 3.08   | 3.28   | 6.10    | 4.26      | 9.76   | 6.72      | 4.08 | 6.55     | 3.12  | 3.35   | 3.57   | 3.46   |  |
| 11          | 3.07   | 3.48   | 5.63    | 4.05      | 11.76  | 6.62      | 4.03 | 4.37     | 3.25  | 3.49   | 3.46   | 3.39   |  |
| 12          | 3.06   | 3.11   | 5.49    | 3.94      | 10.43  | 5.91      | 4.09 | 3.96     | 3.20  | 3.83   | 3.43   | 3.42   |  |
| 13          | 3.06   | 3.01   | 5.52    | 3.87      | 7.61   | 5.56      | 4.37 | 3.80     | 3.09  | 3.57   | 3.39   | 3.38   |  |
| 14          | 3.05   | 2.95   | 5.58    | 3.84      | 6.71   | 5.54      | 4.30 | 3.69     | 3.07  | 3.61   | 3.40   | 3.33   |  |
| 15          | 3.61   | 2.92   | 5.09    | 3.76      | 6.24   | 5.36      | 4.59 | 3.64     | 3.24  | 3.38   | 3.73   | 3.35   |  |
| 16          | 3.31   | 4.13   | 4.82    | 3.65      | 5.93   | 5.08      | 4.78 | 3.54     | 3.16  | 3.42   | 7.70   | 3.36   |  |
| 17          | 4.72   | 4.28   | 4.71    | 4.98      | 5.71   | 4.98      | 4.37 | 3.49     | 3.00  | 3.66   | 9.20   | 3.36   |  |
| 18          | 3.88   | 4.25   | 4.65    | 4.77      | 5.56   | 4.89      | 4.14 | 3.44     | 3.07  | 3.69   | 5.40   | 3.34   |  |
| 19          | 3.47   | 5.29   | 4.40    | 4.40      | 5.46   | 4.81      | 4.01 | 3.39     | 3.51  | 3.45   | 4.28   | 3.34   |  |
| 20          | 3.30   | 4.57   | 4.22    | 4.19      | 5.37   | 4.46      | 3.92 | 3.36     | 3.22  | 3.38   | 3.99   | 3.34   |  |
| 21          | 7.48   | 4.26   | 4.20    | 4.01      | 5.27   | 4.40      | 3.85 | 3.38     | 3.09  | 3.33   | 3.84   | 3.33   |  |
| 22          | 9.74   | 3.94   | 4.15    | 3.93      | 5.18   | 5.64      | 3.80 | 3.42     | 3.02  | 3.37   | 3.76   | 3.29   |  |
| 23          | 5.70   | 3.70   | 4.06    | 4.03      | 5.12   | 4.96      | 3.80 | 3.35     | 2.97  | 3.57   | 3.68   | 3.83   |  |
| 24          | 5.18   | 3.55   | 4.03    | 4.03      | 6.37   | 5.03      | 7.02 | 3.34     | 2.93  | 3.51   | 3.86   | 3.67   |  |
| 25          | 4.46   | 3.24   | 3.99    | 4.02      | 12.24  | 4.65      | 6.10 | 3.29     | 2.95  | 6.66   | 4.42   | 3.57   |  |
| 26          | 4.00   | 3.22   | 3.96    | 3.95      | 15.81  | 4.31      | 4.88 | 3.25     | 3.01  | 4.93   | 3.81   | 3.54   |  |
| 27          | 3.76   | 4.81   | 3.92    | 3.99      | 10.81  | 4.19      | ---  | 3.24     | 2.93  | 3.94   | 3.73   | 3.46   |  |
| 28          | 3.77   | 7.27   | 3.91    | 4.83      | 8.91   | 4.42      | ---  | 3.21     | 2.94  | 3.42   | 3.68   | 3.42   |  |
| 29          | 3.68   | 5.08   | 3.78    | 4.56      | ---    | 4.45      | ---  | 3.43     | 2.88  | 3.63   | 3.58   | 3.37   |  |
| 30          | 3.56   | 4.85   | 3.60    | 4.80      | ---    | 4.17      | ---  | 3.32     | 2.93  | 3.53   | 3.52   | 4.87   |  |
| 31          | 3.50   | ---    | 3.56    | 5.92      | ---    | 5.17      | ---  | 3.24     | ---   | 3.45   | 3.50   | ---    |  |
| TOTAL       | 119.99 | 123.76 | 172.45  | 136.38    | 243.91 | 185.28    | ---  | 115.18   | 92.42 | 112.63 | 126.86 | 104.55 |  |
| MEAN        | 3.87   | 4.13   | 5.56    | 4.40      | 8.71   | 5.98      | ---  | 3.72     | 3.08  | 3.63   | 4.09   | 3.49   |  |
| MAX         | 9.74   | 7.27   | 12.86   | 5.92      | 15.81  | 10.09     | ---  | 6.55     | 3.51  | 6.66   | 9.20   | 4.87   |  |
| MIN         | 2.99   | 2.92   | 3.56    | 3.65      | 5.12   | 4.17      | ---  | 3.21     | 2.88  | 3.05   | 3.39   | 3.29   |  |
| CAL YR 1984 | TOTAL  |        | 2019.03 | MEAN 5.52 |        | MAX 14.36 |      | MIN 2.92 |       |        |        |        |  |



## PASCAGOULA RIVER BASIN

02477000 CHICKASAWHAY RIVER AT ENTERPRISE, MS

LOCATION.--Lat 32°10'32", long 88°49'10", in SE¼NW¼ sec.24, T.4 N., R.14 E., Choctaw Meridian, Clarke County, Hydrologic Unit 03170002, on right bank at downstream side of bridge on State Highway 513 in Enterprise, 0.5 mi downstream from confluence of Chunky River and Okatibbee Creek, and at mile 158.2.

DRAINAGE AREA.--918 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 1334: 1953. WRD Miss. 1966: 1965. WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 207.62 ft above National Geodetic Vertical Datum of 1929. Prior to Jan. 6, 1939, National Weather Service nonrecording gage. Prior to Oct. 1, 1966, at datum 5.00 ft higher.

REMARKS.--No estimated daily discharges. Records good. Flow from 154 mi<sup>2</sup> above the station, 38.4 mi upstream, regulated by Okatibbee Lake since November 1968. National Weather Service telemeter at station.

AVERAGE DISCHARGE.--47 years, 1,260 ft<sup>3</sup>/s, 18.64 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 61,700 ft<sup>3</sup>/s, Feb. 23, 1961, gage height, 42.94 ft, present datum; minimum, 18 ft<sup>3</sup>/s, Sept. 25-30, 1954, Oct. 22-25, 1963; minimum gage height, 3.95 ft present datum, Oct. 13-20, 23, and 24, 1952, Aug. 30, 1957.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in April 1900 reached a stage of 42.2 ft present datum, from floodmark (from reports of National Weather Service).

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

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|---------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Feb. 26 | 0630 | *7,550                            | *22.45              |      |      |                                   |                     |

Minimum discharge, 95 ft<sup>3</sup>/s, Oct. 7, gage height, 4.56 ft, Sept. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY         | OCT   | NOV    | DEC      | JAN      | FEB    | MAR       | APR      | MAY   | JUN  | JUL   | AUG   | SEP  |
|-------------|-------|--------|----------|----------|--------|-----------|----------|-------|------|-------|-------|------|
| 1           | 133   | 249    | 909      | 814      | 3890   | 3170      | 1160     | 757   | 161  | 130   | 253   | 264  |
| 2           | 109   | 1090   | 767      | 1520     | 4890   | 3200      | 1010     | 1190  | 156  | 161   | 264   | 248  |
| 3           | 99    | 1880   | 3940     | 1310     | 4160   | 2690      | 914      | 988   | 148  | 208   | 255   | 233  |
| 4           | 98    | 1470   | 5140     | 963      | 2930   | 2140      | 769      | 778   | 142  | 189   | 234   | 227  |
| 5           | 97    | 769    | 4300     | 886      | 5000   | 1830      | 664      | 613   | 138  | 176   | 212   | 223  |
| 6           | 100   | 539    | 3060     | 768      | 7390   | 1510      | 822      | 510   | 133  | 174   | 215   | 214  |
| 7           | 98    | 412    | 2120     | 696      | 7150   | 1360      | 968      | 446   | 134  | 172   | 1020  | 207  |
| 8           | 102   | 319    | 1920     | 657      | 5390   | 1270      | 750      | 406   | 129  | 166   | 1350  | 218  |
| 9           | 118   | 273    | 1740     | 625      | 3200   | 1220      | 588      | 371   | 123  | 178   | 737   | 232  |
| 10          | 125   | 261    | 1280     | 577      | 2270   | 1180      | 514      | 756   | 121  | 160   | 398   | 228  |
| 11          | 120   | 305    | 1020     | 545      | 3340   | 1130      | 474      | 552   | 138  | 168   | 287   | 214  |
| 12          | 116   | 274    | 934      | 535      | 4950   | 1010      | 479      | 402   | 176  | 236   | 239   | 198  |
| 13          | 115   | 248    | 899      | 476      | 4170   | 866       | 871      | 349   | 162  | 233   | 214   | 184  |
| 14          | 114   | 230    | 901      | 444      | 3000   | 829       | 879      | 317   | 143  | 218   | 235   | 174  |
| 15          | 153   | 219    | 799      | 431      | 1750   | 784       | 898      | 299   | 140  | 178   | 326   | 167  |
| 16          | 199   | 492    | 695      | 416      | 1430   | 730       | 1350     | 271   | 156  | 213   | 1860  | 165  |
| 17          | 431   | 1130   | 650      | 880      | 1270   | 680       | 1140     | 248   | 137  | 227   | 5100  | 166  |
| 18          | 585   | 1020   | 621      | 1400     | 1150   | 646       | 787      | 233   | 144  | 293   | 3580  | 159  |
| 19          | 363   | 920    | 592      | 1050     | 1070   | 609       | 622      | 221   | 172  | 231   | 1390  | 156  |
| 20          | 237   | 914    | 539      | 770      | 1030   | 575       | 527      | 214   | 215  | 187   | 683   | 155  |
| 21          | 1340  | 657    | 518      | 615      | 972    | 573       | 470      | 208   | 177  | 168   | 499   | 153  |
| 22          | 3370  | 505    | 505      | 506      | 908    | 875       | 429      | 225   | 158  | 164   | 411   | 151  |
| 23          | 2170  | 416    | 480      | 510      | 849    | 923       | 399      | 211   | 143  | 324   | 354   | 208  |
| 24          | 1930  | 369    | 459      | 523      | 1250   | 856       | 1260     | 210   | 134  | 524   | 321   | 409  |
| 25          | 1640  | 323    | 449      | 531      | 4160   | 832       | 1960     | 198   | 129  | 794   | 441   | 411  |
| 26          | 847   | 331    | 438      | 509      | 7370   | 673       | 1350     | 186   | 132  | 1760  | 474   | 285  |
| 27          | 502   | 329    | 431      | 495      | 6630   | 583       | 2770     | 177   | 140  | 1740  | 1050  | 253  |
| 28          | 391   | 1210   | 421      | 834      | 4590   | 645       | 2140     | 171   | 135  | 1430  | 1170  | 264  |
| 29          | 341   | 1980   | 419      | 1140     | ---    | 761       | 1330     | 180   | 133  | 704   | 531   | 231  |
| 30          | 298   | 1440   | 407      | 928      | ---    | 682       | 922      | 173   | 131  | 379   | 330   | 348  |
| 31          | 268   | ---    | 395      | 1580     | ---    | 816       | ---      | 170   | ---  | 297   | 289   | ---  |
| TOTAL       | 16609 | 20574  | 37748    | 23934    | 96159  | 35648     | 29216    | 12030 | 4380 | 12182 | 24722 | 6745 |
| MEAN        | 536   | 686    | 1218     | 772      | 3434   | 1150      | 974      | 388   | 146  | 393   | 797   | 225  |
| MAX         | 3370  | 1980   | 5140     | 1580     | 7390   | 3200      | 2770     | 1190  | 215  | 1760  | 5100  | 411  |
| MIN         | 97    | 219    | 395      | 416      | 849    | 573       | 399      | 170   | 121  | 130   | 212   | 151  |
| CFSM        | .58   | .75    | 1.33     | .84      | 3.74   | 1.25      | 1.06     | .42   | .16  | .43   | .87   | .25  |
| IN.         | .67   | .83    | 1.53     | .97      | 3.90   | 1.44      | 1.18     | .49   | .18  | .49   | 1.00  | .27  |
| CAL YR 1984 | TOTAL | 360965 | MEAN 986 | MAX 6320 | MIN 97 | CFSM 1.07 | IN 14.63 |       |      |       |       |      |
| WTR YR 1985 | TOTAL | 319947 | MEAN 877 | MAX 7390 | MIN 97 | CFSM .96  | IN 12.97 |       |      |       |       |      |

## PASCAGOULA RIVER BASIN

89

02477000 CHICKASAWHAY RIVER AT ENTERPRISE, MS--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1     | 4.89   | 5.61   | 7.88   | 7.58   | 15.70  | 14.13  | 8.59   | 7.43   | 5.09   | 4.87   | 5.63   | 5.69   |
| 2     | 4.69   | 8.40   | 7.46   | 9.69   | 17.85  | 14.21  | 8.16   | 8.69   | 5.05   | 5.08   | 5.69   | 5.60   |
| 3     | 4.60   | 10.79  | 15.53  | 9.06   | 16.34  | 12.96  | 7.90   | 8.11   | 5.00   | 5.38   | 5.64   | 5.52   |
| 4     | 4.59   | 9.55   | 18.35  | 8.04   | 13.53  | 11.52  | 7.47   | 7.50   | 4.96   | 5.27   | 5.53   | 5.49   |
| 5     | 4.58   | 7.46   | 16.63  | 7.82   | 17.82  | 10.65  | 7.14   | 6.99   | 4.92   | 5.19   | 5.40   | 5.47   |
| 6     | 4.60   | 6.75   | 13.84  | 7.47   | 22.24  | 9.69   | 7.63   | 6.66   | 4.88   | 5.18   | 5.41   | 5.42   |
| 7     | 4.59   | 6.32   | 11.47  | 7.25   | 21.90  | 9.19   | 8.05   | 6.45   | 4.89   | 5.16   | 8.20   | 5.38   |
| 8     | 4.62   | 5.94   | 10.90  | 7.12   | 18.81  | 8.92   | 7.41   | 6.30   | 4.85   | 5.12   | 9.17   | 5.44   |
| 9     | 4.77   | 5.73   | 10.38  | 7.02   | 14.17  | 8.78   | 6.91   | 6.16   | 4.81   | 5.20   | 7.36   | 5.52   |
| 10    | 4.82   | 5.66   | 8.95   | 6.87   | 11.86  | 8.66   | 6.68   | 7.38   | 4.79   | 5.08   | 6.26   | 5.50   |
| 11    | 4.79   | 5.88   | 8.20   | 6.77   | 14.41  | 8.51   | 6.54   | 6.79   | 4.92   | 5.14   | 5.80   | 5.42   |
| 12    | 4.75   | 5.73   | 7.95   | 6.74   | 17.98  | 8.18   | 6.56   | 6.28   | 5.19   | 5.53   | 5.56   | 5.33   |
| 13    | 4.74   | 5.61   | 7.86   | 6.55   | 16.35  | 7.76   | 7.77   | 6.07   | 5.09   | 5.52   | 5.42   | 5.24   |
| 14    | 4.73   | 5.51   | 7.86   | 6.44   | 13.69  | 7.65   | 7.80   | 5.93   | 4.96   | 5.44   | 5.51   | 5.18   |
| 15    | 5.02   | 5.45   | 7.56   | 6.39   | 10.40  | 7.51   | 7.85   | 5.85   | 4.94   | 5.20   | 5.97   | 5.13   |
| 16    | 5.33   | 6.54   | 7.24   | 6.34   | 9.43   | 7.35   | 9.16   | 5.72   | 5.05   | 5.41   | 10.21  | 5.11   |
| 17    | 6.27   | 8.51   | 7.10   | 7.78   | 8.92   | 7.19   | 8.55   | 5.60   | 4.92   | 5.49   | 18.27  | 5.12   |
| 18    | 6.90   | 8.19   | 7.00   | 9.33   | 8.57   | 7.09   | 7.52   | 5.52   | 4.97   | 5.82   | 15.04  | 5.08   |
| 19    | 6.11   | 7.91   | 6.92   | 8.29   | 8.34   | 6.97   | 7.01   | 5.46   | 5.16   | 5.51   | 9.31   | 5.06   |
| 20    | 5.54   | 7.89   | 6.76   | 7.47   | 8.21   | 6.87   | 6.72   | 5.42   | 5.42   | 5.26   | 7.20   | 5.05   |
| 21    | 8.97   | 7.12   | 6.69   | 6.99   | 8.06   | 6.86   | 6.53   | 5.39   | 5.19   | 5.14   | 6.63   | 5.04   |
| 22    | 14.60  | 6.64   | 6.65   | 6.65   | 7.88   | 7.78   | 6.38   | 5.48   | 5.07   | 5.11   | 6.32   | 5.02   |
| 23    | 11.58  | 6.34   | 6.56   | 6.66   | 7.71   | 7.92   | 6.27   | 5.40   | 4.96   | 5.89   | 6.09   | 5.37   |
| 24    | 10.94  | 6.16   | 6.49   | 6.70   | 8.91   | 7.73   | 8.91   | 5.40   | 4.89   | 6.70   | 5.95   | 6.29   |
| 25    | 10.07  | 5.96   | 6.46   | 6.73   | 15.97  | 7.66   | 11.01  | 5.33   | 4.86   | 7.51   | 6.41   | 6.31   |
| 26    | 7.69   | 5.99   | 6.42   | 6.66   | 22.22  | 7.17   | 9.18   | 5.25   | 4.87   | 10.43  | 6.52   | 5.78   |
| 27    | 6.63   | 5.99   | 6.39   | 6.61   | 21.07  | 6.89   | 13.14  | 5.20   | 4.94   | 10.37  | 8.29   | 5.63   |
| 28    | 6.24   | 8.74   | 6.35   | 7.65   | 17.20  | 7.08   | 11.51  | 5.16   | 4.90   | 9.42   | 8.63   | 5.68   |
| 29    | 6.04   | 11.08  | 6.35   | 8.54   | ---    | 7.44   | 9.12   | 5.21   | 4.89   | 7.25   | 6.71   | 5.51   |
| 30    | 5.85   | 9.46   | 6.30   | 7.94   | ---    | 7.20   | 7.92   | 5.17   | 4.87   | 6.19   | 5.99   | 5.91   |
| 31    | 5.70   | ---    | 6.26   | 9.86   | ---    | 7.59   | ---    | 5.15   | ---    | 5.84   | 5.81   | ---    |
| TOTAL | 195.24 | 212.91 | 266.76 | 231.01 | 395.54 | 265.11 | 241.39 | 188.45 | 149.30 | 185.70 | 225.93 | 163.29 |
| MEAN  | 6.30   | 7.10   | 8.61   | 7.45   | 14.13  | 8.55   | 8.05   | 6.08   | 4.98   | 5.99   | 7.29   | 5.44   |
| MAX   | 14.60  | 11.08  | 18.35  | 9.86   | 22.24  | 14.21  | 13.14  | 8.69   | 5.42   | 10.43  | 18.27  | 6.31   |
| MIN   | 4.58   | 5.45   | 6.26   | 6.34   | 7.71   | 6.86   | 6.27   | 5.15   | 4.79   | 4.87   | 5.40   | 5.02   |

WTR YR 1985 TOTAL 2720.63 MEAN 7.45 MAX 22.24 MIN 4.58

## PASCAGOULA RIVER BASIN

02477350 CHICKASAWHAY RIVER AT SHUBUTA, MS

LOCATION.--Lat 31°51'25", long 88°41'11", in NW¼ 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 National Geodetic Vertical Datum of 1929. 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, 1.98 ft, Oct. 8, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum observed gage height, 24.61 ft, Feb. 27; minimum observed, 1.98 ft, Oct. 8.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
INSTANTANEOUS OBSERVATIONS AT 0700

| DAY   | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN   | JUL    | AUG   | SEP   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|-------|
| 1     | 2.42   | 4.33   | 8.65   | 4.95   | 9.96   | 22.02  | 7.72   | 7.14   | 2.85  | 2.40   | 3.59  | 3.57  |
| 2     | 2.43   | 6.89   | 6.90   | 5.81   | 13.79  | 22.07  | 8.60   | 8.24   | 2.80  | 2.62   | 3.31  | 3.72  |
| 3     | 2.50   | 13.14  | 6.68   | 8.98   | 16.68  | 17.80  | 7.81   | 8.46   | 2.76  | 2.94   | 3.17  | 3.51  |
| 4     | 2.09   | 11.97  | 14.25  | 8.34   | 16.34  | 15.03  | 7.13   | 7.20   | 2.70  | 3.00   | ---   | 3.21  |
| 5     | 1.99   | 10.34  | 16.54  | 6.93   | 15.38  | 13.41  | 6.48   | 6.49   | 2.63  | 3.01   | ---   | 3.10  |
| 6     | 2.82   | 8.75   | 18.03  | 6.48   | 18.75  | 12.25  | 6.30   | 5.97   | 2.58  | 2.84   | 3.03  | 3.45  |
| 7     | 2.09   | 6.53   | 15.04  | 6.06   | 19.64  | 10.29  | 6.72   | 5.33   | 2.54  | 2.78   | 3.20  | 3.05  |
| 8     | 1.98   | 5.59   | 11.58  | 5.14   | 20.36  | 9.26   | 6.99   | 4.81   | 2.46  | 2.79   | 6.55  | 3.00  |
| 9     | 2.51   | 4.91   | 10.18  | 5.53   | 20.71  | 8.76   | 6.32   | 4.61   | 2.48  | 2.72   | 7.57  | 2.95  |
| 10    | 2.60   | 4.53   | 9.86   | 5.39   | 19.09  | 8.48   | 5.62   | 4.50   | 2.44  | 2.67   | 5.48  | 2.96  |
| 11    | 2.63   | 4.36   | 7.93   | 5.25   | 13.14  | 8.23   | 5.28   | 5.17   | 2.42  | 2.66   | 4.30  | 3.01  |
| 12    | 3.36   | 4.46   | 7.13   | 5.13   | 17.03  | 7.98   | 5.08   | 5.18   | 2.61  | 2.55   | 4.21  | 2.99  |
| 13    | 2.28   | 4.48   | 6.16   | 5.04   | 17.53  | 7.63   | 5.02   | 4.53   | 2.87  | 2.69   | 3.28  | 2.89  |
| 14    | 2.21   | 4.33   | 6.11   | 4.88   | 17.23  | 7.14   | 6.12   | 4.25   | 2.91  | 3.02   | 3.04  | 2.86  |
| 15    | 2.33   | 4.11   | 6.77   | 4.73   | 15.45  | 6.91   | 6.58   | 4.11   | 2.68  | 3.09   | 2.82  | 2.75  |
| 16    | 2.42   | 4.00   | 6.45   | 4.62   | 10.80  | 6.66   | 6.54   | 3.99   | 2.60  | 2.94   | 3.50  | 2.66  |
| 17    | 3.43   | 4.77   | 6.00   | 5.94   | 8.93   | 6.57   | 7.75   | 3.80   | 2.68  | 3.02   | 6.27  | 2.60  |
| 18    | 8.13   | 6.88   | 5.77   | 7.90   | 8.34   | 6.32   | 7.24   | 3.64   | 2.70  | 3.28   | 12.12 | 2.68  |
| 19    | 6.90   | 8.29   | 5.62   | 9.10   | 7.88   | 6.12   | 6.09   | 3.50   | 3.81  | 3.37   | 14.89 | 3.13  |
| 20    | 5.96   | 6.94   | 5.47   | 7.70   | 7.59   | 5.94   | 5.48   | 3.42   | 4.10  | 3.36   | 9.41  | 2.45  |
| 21    | 4.80   | 6.86   | 5.34   | 6.41   | 7.38   | 6.17   | 5.06   | 3.32   | 3.67  | 2.90   | 5.65  | 2.50  |
| 22    | 14.86  | 5.91   | 5.27   | 5.64   | 7.17   | 6.77   | 4.81   | 3.40   | 3.23  | 2.70   | 4.62  | 2.41  |
| 23    | 18.98  | 5.46   | 5.21   | 5.19   | 6.93   | 6.99   | 4.63   | 3.45   | 2.89  | 2.82   | 4.12  | 2.45  |
| 24    | 16.80  | 4.95   | 5.09   | 5.08   | 6.85   | 7.28   | 5.33   | 3.41   | 2.69  | 3.31   | 3.87  | 3.67  |
| 25    | 15.15  | 4.74   | 4.99   | 5.19   | 15.17  | 7.16   | 8.85   | 3.32   | 2.65  | 5.15   | 3.87  | 4.08  |
| 26    | 12.24  | 4.59   | 4.88   | 5.23   | 24.29  | 6.86   | 10.81  | 3.21   | 2.59  | 5.24   | 3.74  | 4.34  |
| 27    | 9.18   | 4.38   | 4.83   | 5.10   | 24.61  | 6.25   | 15.46  | 3.10   | 2.52  | 8.51   | 4.32  | 3.68  |
| 28    | 6.38   | 7.14   | 4.81   | 6.52   | 22.61  | 6.05   | 13.44  | 3.03   | 2.59  | 8.50   | 6.66  | 3.32  |
| 29    | 5.45   | 11.39  | 4.77   | 7.40   | ---    | 6.55   | 12.15  | 2.96   | 2.52  | 7.76   | 6.67  | 3.23  |
| 30    | 4.94   | 10.45  | 4.76   | 8.10   | ---    | 6.13   | 9.63   | 2.93   | 2.48  | 5.49   | 4.93  | 3.15  |
| 31    | 4.51   | ---    | 5.00   | 7.32   | ---    | 6.36   | ---    | 2.98   | ---   | 4.05   | 3.85  | ---   |
| TOTAL | 176.37 | 195.47 | 236.07 | 191.08 | 409.63 | 281.44 | 221.04 | 139.45 | 83.45 | 114.18 | ---   | 93.37 |
| MEAN  | 5.69   | 6.52   | 7.62   | 6.16   | 14.63  | 9.08   | 7.37   | 4.50   | 2.78  | 3.68   | ---   | 3.11  |
| MAX   | 18.98  | 13.14  | 18.03  | 9.10   | 24.61  | 22.07  | 15.46  | 8.46   | 4.10  | 8.51   | ---   | 4.34  |
| MIN   | 1.98   | 4.00   | 4.76   | 4.62   | 6.85   | 5.94   | 4.63   | 2.93   | 2.42  | 2.40   | ---   | 2.41  |

CAL YR 1984 TOTAL 13002547.09 MEAN 35526.08 MAX 99998.00 MIN 1.98

## PASCAGOULA RIVER BASIN

91

02477500 CHICKASAWHAY RIVER NEAR WAYNESBORO, MS

LOCATION.--Lat 31°40'46", long 88°41'00", in NW¼ 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 and telemark gage. Datum of gage is 119.91 ft Mississippi State Highway Department datum. September 1938 to May 4, 1939, wire-weight gage and May 5, 1939 to September 1950, water-stage recorder, at present site and datum.

REMARKS.--Records furnished by National Weather Service.

AVERAGE DISCHARGE.--12 years (1938-50), 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, 149 ft<sup>3</sup>/s, Aug. 28, 1943 (gage height, 2.48 ft).

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 observed gage height, 18.19 ft, Oct. 23, minimum observed, 2.33 ft, Oct. 6.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
INSTANTANEOUS OBSERVATIONS AT 0700

| DAY   | OCT    | NOV    | DEC   | JAN    | FEB   | MAR   | APR    | MAY   | JUN   | JUL  | AUG    | SEP    |
|-------|--------|--------|-------|--------|-------|-------|--------|-------|-------|------|--------|--------|
| 1     | 2.60   | 5.06   | 9.97  | 5.55   | 10.17 | 22.39 | 7.27   | 8.50  | 3.25  | 2.86 | 4.24   | 4.10   |
| 2     | 2.60   | 5.58   | 8.18  | 5.62   | 14.85 | ---   | 8.93   | 10.00 | 3.17  | 2.75 | 3.89   | 3.82   |
| 3     | 3.34   | 12.10  | 7.06  | 8.06   | ---   | 21.04 | 8.95   | 9.40  | 3.10  | 3.34 | 3.57   | 8.61   |
| 4     | 2.62   | 13.43  | 12.32 | 9.49   | 16.80 | 16.72 | 9.07   | 8.55  | 3.03  | 3.24 | 3.49   | 3.89   |
| 5     | 2.37   | 11.46  | 16.24 | 7.90   | 16.23 | 14.45 | 7.46   | 7.39  | 2.95  | 3.27 | 3.54   | 3.69   |
| 6     | 2.33   | 9.83   | 18.42 | 7.15   | 17.45 | ---   | 7.07   | 6.74  | 2.90  | 3.32 | 3.40   | 3.51   |
| 7     | 3.08   | 8.11   | 17.57 | 6.75   | 19.42 | ---   | 7.19   | 6.41  | 2.83  | 3.23 | 4.04   | 3.87   |
| 8     | 2.39   | 6.57   | 13.26 | 6.44   | 19.75 | ---   | 7.49   | 6.03  | 2.79  | 3.14 | 4.82   | 3.34   |
| 9     | 2.91   | 5.83   | 11.15 | 6.13   | 20.24 | 9.62  | 7.40   | 5.50  | 2.72  | 3.10 | 7.93   | 3.29   |
| 10    | 4.50   | 5.29   | 10.16 | 5.96   | 20.34 | 9.25  | 6.70   | 5.54  | 2.72  | 2.98 | 7.28   | 3.28   |
| 11    | 3.60   | 5.10   | 9.00  | 5.82   | 16.43 | 9.02  | 6.08   | 5.61  | 2.71  | 2.95 | 5.30   | 3.26   |
| 12    | 3.65   | 4.97   | 7.97  | 5.63   | ---   | 8.74  | 5.80   | 6.21  | 3.01  | 2.97 | 4.63   | 3.28   |
| 13    | 3.64   | 5.05   | 7.45  | 5.54   | 17.71 | 8.48  | 5.61   | 5.83  | 3.45  | 2.98 | 4.39   | 3.22   |
| 14    | 2.75   | 5.00   | 7.30  | 5.45   | 17.49 | 8.00  | 5.48   | ---   | 3.38  | 3.04 | 3.70   | 3.21   |
| 15    | 2.74   | 4.78   | 7.36  | 5.29   | 16.75 | 7.68  | 7.00   | ---   | 3.21  | 3.26 | 3.31   | 3.13   |
| 16    | 3.77   | 4.60   | 7.16  | 5.16   | 13.47 | 7.48  | 7.29   | ---   | 3.05  | 3.41 | 3.26   | 3.01   |
| 17    | 3.66   | 4.83   | 6.75  | 6.09   | 10.05 | 7.33  | 7.53   | ---   | 2.99  | 3.93 | 4.45   | 2.91   |
| 18    | 9.12   | 6.32   | 6.41  | 8.01   | 9.13  | 7.12  | 8.10   | 4.23  | 3.01  | 3.50 | 3.27   | 2.85   |
| 19    | 8.93   | 8.63   | 6.20  | 9.23   | 8.61  | 6.92  | 7.19   | 4.10  | 3.23  | 3.63 | 5.34   | 3.08   |
| 20    | 7.17   | 8.05   | 6.06  | 9.08   | 8.27  | 6.73  | 6.50   | 3.94  | 4.54  | 3.75 | 12.81  | 3.32   |
| 21    | 5.96   | 7.28   | 5.94  | 7.45   | 8.00  | 7.06  | 5.70   | 3.83  | 4.15  | 3.57 | 7.65   | 2.69   |
| 22    | 11.79  | 7.13   | ---   | 6.48   | 7.78  | 7.91  | 5.51   | 3.83  | 3.97  | 3.17 | 5.52   | 2.91   |
| 23    | 18.19  | 6.80   | 5.80  | 5.95   | 7.59  | 7.66  | 5.40   | 3.86  | 3.48  | 3.85 | 4.77   | 2.75   |
| 24    | 17.92  | 5.70   | 5.67  | 5.69   | 7.35  | 7.98  | 5.19   | 3.93  | 3.16  | 3.86 | 4.33   | 4.60   |
| 25    | 16.52  | 5.64   | 5.53  | 5.76   | 12.77 | 7.92  | 8.96   | 3.80  | 2.97  | 4.89 | 5.09   | 5.15   |
| 26    | 13.94  | 5.60   | 5.42  | 5.78   | 21.98 | 7.75  | 11.09  | 3.70  | 2.92  | 5.40 | 4.80   | 4.97   |
| 27    | 10.90  | 5.00   | 5.35  | 5.72   | 24.49 | 7.33  | 16.03  | 3.60  | 3.09  | 7.32 | 4.66   | 4.65   |
| 28    | 8.05   | 8.36   | 5.30  | 6.89   | ---   | 5.90  | 14.28  | 3.47  | 3.26  | ---  | 5.25   | 3.97   |
| 29    | 6.59   | 11.23  | 5.28  | 8.34   | ---   | 7.15  | 13.40  | 3.38  | 3.22  | 8.20 | 7.44   | 3.66   |
| 30    | 5.93   | 11.45  | 5.34  | 8.45   | ---   | 7.39  | 11.50  | 3.30  | 3.03  | 7.54 | 6.57   | 3.59   |
| 31    | 5.42   | ---    | 5.46  | 8.38   | ---   | 7.34  | ---    | 3.24  | ---   | 5.10 | 4.66   | ---    |
| TOTAL | 198.98 | 214.78 | ---   | 209.24 | ---   | ---   | 241.17 | ---   | 95.29 | ---  | 157.40 | 111.61 |
| MEAN  | 6.42   | 7.16   | ---   | 6.75   | ---   | ---   | 8.04   | ---   | 3.18  | ---  | 5.08   | 3.72   |
| MAX   | 18.19  | 13.43  | ---   | 9.49   | ---   | ---   | 16.03  | ---   | 4.54  | ---  | 12.81  | 8.61   |
| MIN   | 2.33   | 4.60   | ---   | 5.16   | ---   | ---   | 5.19   | ---   | 2.71  | ---  | 3.26   | 2.69   |

## PASCAGOULA RIVER BASIN

02477990 BUCKATUNNA CREEK NEAR DENHAM, MS

LOCATION.--Lat 31°41'38", long 88°31'10", in NE¼ 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, 2.7 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 National Geodetic Vertical Datum of 1929. Prior to water year 1975, at datum 3.94 ft lower.

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--13 years, 843 ft<sup>3</sup>/s, 23.27 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,200 ft<sup>3</sup>/s, Mar. 6, 1979, gage height, 34.90 ft; minimum, 7.8 ft<sup>3</sup>/s, Sept. 21-22, 1972.

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) |
|--------|------|--------------------------------|------------------|--------------------------------------------|------|--------------------------------|------------------|
| Mar. 2 | 1600 | *4,430                         | *20.19           | No other peak greater than base discharge. |      |                                |                  |

Minimum discharge, 17 ft<sup>3</sup>/s, Sept. 22, gage height, 4.22 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN  | JUL  | AUG  | SEP  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| 1     | 26    | 348   | 690   | 419   | 1570  | 3460  | 455   | 1030  | 69   | 41   | 131  | 54   |
| 2     | 26    | 988   | 490   | 424   | 1640  | 4320  | 556   | 1970  | 65   | 46   | 103  | 48   |
| 3     | 25    | 1470  | 391   | 491   | 1580  | 4340  | 655   | 1040  | 63   | 90   | 86   | 47   |
| 4     | 25    | 1450  | 378   | 518   | 1410  | 3800  | 551   | 905   | 59   | 75   | 75   | 40   |
| 5     | 23    | 1120  | 1250  | 446   | 1500  | 2750  | 468   | 727   | 54   | 53   | 66   | 36   |
| 6     | 23    | 666   | 1850  | 384   | 1960  | 1790  | 483   | 563   | 51   | 55   | 65   | 32   |
| 7     | 23    | 470   | 1620  | 336   | 1860  | 1300  | 576   | 454   | 47   | 53   | 76   | 29   |
| 8     | 25    | 359   | 1250  | 293   | 1780  | 1110  | 566   | 500   | 45   | 43   | 70   | 31   |
| 9     | 70    | 292   | 917   | 266   | 1710  | 925   | 512   | 484   | 42   | 39   | 77   | 33   |
| 10    | 105   | 251   | 680   | 247   | 1730  | 817   | 401   | 409   | 42   | 36   | 130  | 31   |
| 11    | 217   | 285   | 567   | 233   | 1570  | 762   | 335   | 344   | 41   | 35   | 100  | 31   |
| 12    | 123   | 299   | 499   | 218   | 1500  | 709   | 298   | 457   | 55   | 33   | 83   | 27   |
| 13    | 75    | 240   | 444   | 211   | 1410  | 658   | 280   | 386   | 55   | 32   | 59   | 24   |
| 14    | 57    | 228   | 407   | 210   | 1380  | 619   | 275   | 293   | 43   | 29   | 50   | 24   |
| 15    | 236   | 199   | 382   | 199   | 1370  | 587   | 341   | 333   | 39   | 28   | 48   | 25   |
| 16    | 198   | 189   | 369   | 195   | 1110  | 552   | 380   | 230   | 39   | 29   | 57   | 23   |
| 17    | 564   | 219   | 350   | 697   | 791   | 528   | 484   | 183   | 40   | 46   | 82   | 21   |
| 18    | 823   | 295   | 323   | 829   | 680   | 504   | 615   | 158   | 39   | 73   | 97   | 20   |
| 19    | 603   | 376   | 303   | 742   | 616   | 478   | 490   | 145   | 47   | 56   | 168  | 19   |
| 20    | 462   | 377   | 289   | 639   | 573   | 447   | 367   | 132   | 47   | 44   | 156  | 19   |
| 21    | 413   | 287   | 274   | 470   | 533   | 578   | 296   | 122   | 61   | 63   | 103  | 18   |
| 22    | 1820  | 230   | 272   | 366   | 496   | 578   | 251   | 120   | 140  | 54   | 75   | 18   |
| 23    | 1780  | 198   | 273   | 306   | 465   | 567   | 218   | 110   | 108  | 52   | 61   | 44   |
| 24    | 2110  | 177   | 269   | 285   | 525   | 551   | 523   | 107   | 77   | 50   | 52   | 79   |
| 25    | 1750  | 164   | 259   | 296   | 1600  | 555   | 1940  | 103   | 60   | 50   | 59   | 50   |
| 26    | 1680  | 156   | 246   | 291   | 3140  | 529   | 1460  | 99    | 50   | 83   | 73   | 53   |
| 27    | 1510  | 259   | 232   | 307   | 2970  | 504   | 2630  | 96    | 43   | 623  | 63   | 66   |
| 28    | 982   | 1080  | 225   | 775   | 2940  | 492   | 2140  | 93    | 40   | 755  | 43   | 56   |
| 29    | 928   | 861   | 225   | 708   | ---   | 500   | 1390  | 86    | 39   | 465  | 94   | 46   |
| 30    | 574   | 804   | 256   | 648   | ---   | 526   | 934   | 79    | 44   | 234  | 82   | 44   |
| 31    | 442   | ---   | 277   | 879   | ---   | 491   | ---   | 74    | ---  | 159  | 64   | ---  |
| TOTAL | 17718 | 14337 | 16257 | 13328 | 40409 | 36327 | 20870 | 11832 | 1644 | 3524 | 2548 | 1088 |
| MEAN  | 572   | 478   | 524   | 430   | 1443  | 1172  | 696   | 382   | 54.8 | 114  | 82.2 | 36.3 |
| MAX   | 2110  | 1470  | 1850  | 879   | 3140  | 4340  | 2630  | 1970  | 140  | 755  | 168  | 79   |
| MIN   | 23    | 156   | 225   | 195   | 465   | 447   | 218   | 74    | 39   | 28   | 43   | 18   |
| CFSM  | 1.16  | .97   | 1.07  | .87   | 2.93  | 2.38  | 1.42  | .78   | .11  | .23  | .17  | .07  |
| IN.   | 1.34  | 1.08  | 1.23  | 1.01  | 3.06  | 2.75  | 1.58  | .89   | .12  | .27  | .19  | .08  |

|             |       |        |          |          |        |           |          |
|-------------|-------|--------|----------|----------|--------|-----------|----------|
| CAL YR 1984 | TOTAL | 207505 | MEAN 567 | MAX 3800 | MIN 23 | CFSM 1.15 | IN 15.69 |
| WTR YR 1985 | TOTAL | 179882 | MEAN 493 | MAX 4340 | MIN 18 | CFSM 1.00 | IN 13.60 |



## 02478500 CHICKASAWHAY RIVER AT LEAKESVILLE, MS

LOCATION.--Lat 31°08'54", long 88°33'52", in SW¼ sec.12, T.2 N., R.6 W., St. Stephens Meridian, Greene County, Hydrologic Unit 03170003, on left bank at 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.

DRAINAGE AREA.--2,690 mi<sup>2</sup>.

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

REVISED RECORDS.--WSP 1504: 1938-39.

GAGE.--Water-stage recorder. Datum of gage is 51.13 ft above National Geodetic Vertical Datum of 1929 (levels by U. S. Army Corps of Engineers). Prior to Oct. 19, 1939, nonrecording gage at same site and datum.

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

AVERAGE DISCHARGE.--47 years, 3,904 ft<sup>3</sup>/s, 19.71 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 73,600 ft<sup>3</sup>/s, Feb. 28, 1961, gage height, 33.52 ft; minimum, 160 ft<sup>3</sup>/s, Oct. 30, 31, 1963, gage height, 6.74 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--A flood in April 1900 reached a stage of 38 ft, and a flood in July 1916 reached a stage of 34.12 ft, discharge, 68,000 ft<sup>3</sup>/s, from information by U. S. Army Corps of Engineers.

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

| Date   | Time | Discharge (ft <sup>3</sup> /s) | Gage Height (ft) | Date                                       | Time | Discharge (ft <sup>3</sup> /s) | Gage Height (ft) |
|--------|------|--------------------------------|------------------|--------------------------------------------|------|--------------------------------|------------------|
| Mar. 3 | 1400 | *17,700                        | *24.33           | No other peak greater than base discharge. |      |                                |                  |

Minimum discharge, 413 ft<sup>3</sup>/s, Oct. 7, 8, Gage Height, 8.31 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC    | JAN   | FEB    | MAR    | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|
| 1     | 463   | 1970  | 4280   | 1680  | 3920   | 16000  | 2470  | 4920  | 636   | 519   | 1310  | 1220  |
| 2     | 453   | 1830  | 3590   | 2110  | 5830   | 17200  | 2460  | 4020  | 621   | 507   | 954   | 1020  |
| 3     | 446   | 2900  | 2800   | 2400  | 7160   | 17600  | 2860  | 4960  | 604   | 492   | 809   | 1110  |
| 4     | 457   | 5270  | 2460   | 3070  | 7990   | 17100  | 2970  | 4150  | 583   | 501   | 715   | 1500  |
| 5     | 502   | 5830  | 6420   | 3420  | 8170   | 14800  | 2700  | 3330  | 560   | 586   | 647   | 1250  |
| 6     | 446   | 4850  | 9590   | 2880  | 10400  | 11300  | 2500  | 2750  | 539   | 652   | 627   | 964   |
| 7     | 419   | 3680  | 9960   | 2440  | 11200  | 8300   | 2430  | 2260  | 518   | 698   | 634   | 843   |
| 8     | 436   | 2760  | 9200   | 2200  | 11000  | 6260   | 2380  | 1990  | 504   | 687   | 759   | 893   |
| 9     | 470   | 2110  | 6580   | 2020  | 10900  | 5180   | 2400  | 1860  | 498   | 624   | 1000  | 984   |
| 10    | 506   | 1780  | 4850   | 1880  | 10900  | 4500   | 2290  | 1770  | 494   | 571   | 1560  | 818   |
| 11    | 901   | 1620  | 3970   | 1790  | 10900  | 4080   | 2010  | 1640  | 505   | 526   | 1590  | 772   |
| 12    | 964   | 1550  | 3320   | 1720  | 9670   | 3780   | 1810  | 1520  | 514   | 514   | 1220  | 711   |
| 13    | 858   | 1490  | 2860   | 1650  | 8860   | 3540   | 1710  | 1600  | 528   | 531   | 1000  | 675   |
| 14    | 787   | 1400  | 2600   | 1580  | 8810   | 3310   | 1700  | 1540  | 568   | 499   | 949   | 659   |
| 15    | 671   | 1340  | 2470   | 1550  | 8660   | 3050   | 1840  | 1360  | 604   | 505   | 925   | 643   |
| 16    | 588   | 1280  | 2410   | 1520  | 8020   | 2850   | 2170  | 1380  | 629   | 593   | 895   | 629   |
| 17    | 1010  | 1230  | 2310   | 2180  | 6270   | 2780   | 2210  | 1300  | 561   | 698   | 891   | 603   |
| 18    | 1550  | 1260  | 2150   | 4040  | 4520   | 2730   | 2260  | 1140  | 529   | 698   | 1000  | 574   |
| 19    | 3270  | 1580  | 2020   | 3970  | 3810   | 2560   | 2450  | 1040  | 533   | 712   | 3220  | 550   |
| 20    | 3100  | 2350  | 1910   | 3740  | 3450   | 2430   | 2190  | 971   | 557   | 725   | 4820  | 538   |
| 21    | 2420  | 2400  | 1840   | 3370  | 3200   | 3110   | 1870  | 922   | 683   | 755   | 3840  | 574   |
| 22    | 4960  | 2080  | 1790   | 2690  | 3000   | 4150   | 1680  | 892   | 804   | 783   | 2210  | 557   |
| 23    | 7840  | 1900  | 1750   | 2260  | 2840   | 3820   | 1550  | 862   | 778   | 1030  | 1420  | 1420  |
| 24    | 8930  | 1660  | 1720   | 2060  | 2990   | 3180   | 1600  | 851   | 684   | 1020  | 1130  | 3530  |
| 25    | 9240  | 1460  | 1670   | 1970  | 3950   | 2970   | 2740  | 837   | 597   | 1190  | 1030  | 2250  |
| 26    | 8300  | 1390  | 1610   | 1960  | 8500   | 2820   | 4430  | 813   | 547   | 1200  | 1020  | 1790  |
| 27    | 6590  | 1480  | 1560   | 1920  | 12800  | 2670   | 5290  | 784   | 510   | 1190  | 1070  | 1430  |
| 28    | 5100  | 2310  | 1520   | 2710  | 14800  | 2560   | 7250  | 748   | 524   | 1540  | 1080  | 1220  |
| 29    | 3880  | 4030  | 1500   | 4140  | ---    | 2540   | 7670  | 724   | 561   | 2440  | 1130  | 1040  |
| 30    | 3210  | 4420  | 1490   | 3870  | ---    | 2520   | 6600  | 691   | 541   | 2330  | 1570  | 950   |
| 31    | 2430  | ---   | 1580   | 3590  | ---    | 2520   | ---   | 660   | ---   | 1870  | 1570  | ---   |
| TOTAL | 81197 | 71210 | 103780 | 78380 | 212520 | 182210 | 86490 | 54285 | 17314 | 27186 | 42595 | 31717 |
| MEAN  | 2619  | 2374  | 3348   | 2528  | 7590   | 5878   | 2883  | 1751  | 577   | 877   | 1374  | 1057  |
| MAX   | 9240  | 5830  | 9960   | 4140  | 14800  | 17600  | 7670  | 4960  | 804   | 2440  | 4820  | 3530  |
| MIN   | 419   | 1230  | 1490   | 1520  | 2840   | 2430   | 1550  | 660   | 494   | 492   | 627   | 538   |
| CFSM  | .97   | .88   | 1.25   | .94   | 2.82   | 2.19   | 1.07  | .65   | .21   | .33   | .51   | .39   |
| IN.   | 1.12  | .98   | 1.44   | 1.08  | 2.94   | 2.52   | 1.20  | .75   | .24   | .38   | .59   | .44   |

CAL YR 1984 TOTAL 1268581 MEAN 3466 MAX 18500 MIN 419 CFSM 1.29 IN 17.54  
WTR YR 1985 TOTAL 988884 MEAN 2709 MAX 17600 MIN 419 CFSM 1.01 IN 13.68

## PASCAGOULA RIVER BASIN

02479000 PASCAGOULA RIVER AT MERRILL, MS

LOCATION.--Lat 30°58'40", long 88°43'35", in SW¼ 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 National Geodetic Vertical Datum of 1929. Prior to Dec. 6, 1934, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Oct. 11-31 and Nov. 3-8, and Mar. 28-29. Records good except for period of estimated daily discharge, Oct. 11-31 and Nov. 3-8, which are poor and period of estimated daily discharge, Feb. 3-8 and Mar. 28-29, which are fair. Records of chemical analysis for the current year at site 13.8 mi downstream (station 02479020). National Weather Service telemeter at station.

AVERAGE DISCHARGE.--55 years, 9,984 ft<sup>3</sup>/s, 20.57 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 178,000 ft<sup>3</sup>/s, Feb. 27, 1961, gage height, 30.66 ft; minimum, 696 ft<sup>3</sup>/s, Nov. 3, 1936; minimum gage height, 1.92 ft, Oct. 21-26, 1963.

EXTREMES OUTSIDE PERIOD OF RECORD.--A flood in April 1900 reached a stage of 32.5 ft, and the flood of July 9, 1916, reached a stage of 31.0 ft, from information by National Weather Service.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 48,000 ft<sup>3</sup>/s, Mar. 4, gage height, 21.70 ft; minimum discharge, 1,310 ft<sup>3</sup>/s, Oct. 8, gage height, 2.86 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN   | JUL   | AUG    | SEP    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|--------|
| 1     | 1430   | 6310   | 11200  | 4440   | 11600  | 38000  | 6860   | 11100  | 1830  | 1700  | 3510   | 3790   |
| 2     | 1390   | 5680   | 10600  | 5240   | 14400  | 43400  | 7150   | 9220   | 1790  | 1750  | 2890   | 3180   |
| 3     | 1380   | 7450   | 7440   | 7030   | 17900  | 46800  | 7710   | 8630   | 1740  | 1870  | 2470   | 3670   |
| 4     | 1360   | 14200  | 5120   | 8380   | 19700  | 47700  | 7960   | 8330   | 1690  | 1810  | 2210   | 5530   |
| 5     | 1380   | 16700  | 13000  | 8610   | 19900  | 45900  | 7520   | 6980   | 1640  | 1710  | 2030   | 4790   |
| 6     | 1420   | 17200  | 22300  | 7770   | 24000  | 41100  | 6930   | 6000   | 1600  | 1900  | 2010   | 3870   |
| 7     | 1360   | 14100  | 23700  | 6500   | 25700  | 33200  | 6780   | 5270   | 1550  | 2280  | 2370   | 3480   |
| 8     | 1330   | 11000  | 23300  | 5760   | 27200  | 23300  | 6660   | 4840   | 1530  | 2160  | 2810   | 3250   |
| 9     | 1360   | 7600   | 19300  | 5270   | 27500  | 15900  | 6460   | 4520   | 1490  | 2020  | 3180   | 3520   |
| 10    | 1620   | 5890   | 14600  | 4870   | 27000  | 12400  | 6130   | 4350   | 1680  | 1880  | 3310   | 3360   |
| 11    | 1770   | 5390   | 11400  | 4570   | 25200  | 10700  | 5600   | 4140   | 1780  | 1780  | 3490   | 3440   |
| 12    | 1950   | 4860   | 9380   | 4330   | 23300  | 9580   | 5050   | 3850   | 1800  | 1660  | 3250   | 3020   |
| 13    | 2300   | 4380   | 8040   | 4140   | 22900  | 8880   | 4710   | 3630   | 1760  | 1580  | 3050   | 2640   |
| 14    | 2260   | 4090   | 7170   | 3990   | 22500  | 8300   | 4570   | 3620   | 1700  | 1720  | 2730   | 2370   |
| 15    | 2080   | 3860   | 6590   | 3870   | 21700  | 7770   | 5040   | 3430   | 1670  | 1850  | 3670   | 2210   |
| 16    | 2000   | 3670   | 6210   | 3820   | 20300  | 7290   | 5440   | 3240   | 1710  | 2060  | 5190   | 2050   |
| 17    | 1910   | 3600   | 5920   | 6660   | 17200  | 7080   | 5540   | 3180   | 1770  | 2920  | 7040   | 1910   |
| 18    | 2020   | 3900   | 5610   | 11300  | 13200  | 7050   | 5470   | 2970   | 1650  | 2890  | 10900  | 1810   |
| 19    | 3730   | 4550   | 5310   | 11800  | 10100  | 6670   | 5400   | 2790   | 1620  | 2500  | 14600  | 1730   |
| 20    | 6330   | 6100   | 5080   | 10800  | 8670   | 6310   | 5200   | 2610   | 1690  | 2470  | 16600  | 1650   |
| 21    | 7490   | 6860   | 4900   | 9740   | 7900   | 9510   | 4670   | 2500   | 1840  | 2520  | 11500  | 1610   |
| 22    | 7030   | 6100   | 4740   | 8070   | 7370   | 15300  | 4200   | 2440   | 2340  | 2390  | 8040   | 1630   |
| 23    | 12400  | 5370   | 4630   | 6570   | 6970   | 15000  | 3860   | 2420   | 2380  | 2550  | 5850   | 5430   |
| 24    | 14000  | 4820   | 4540   | 5780   | 7100   | 11700  | 3760   | 2390   | 2190  | 2930  | 4340   | 18700  |
| 25    | 18100  | 4240   | 4450   | 5480   | 11400  | 9500   | 5050   | 2360   | 2010  | 3250  | 3780   | 12800  |
| 26    | 21100  | 3840   | 4320   | 5280   | 20000  | 8430   | 6420   | 2290   | 1840  | 5180  | 3910   | 8710   |
| 27    | 24100  | 3860   | 4190   | 5130   | 27400  | 7620   | 8360   | 2210   | 1700  | 5360  | 3940   | 6040   |
| 28    | 25100  | 7410   | 4100   | 7480   | 32800  | 7270   | 10400  | 2130   | 1630  | 4800  | 3960   | 4650   |
| 29    | 22800  | 9040   | 4030   | 12400  | ---    | 7250   | 11800  | 2050   | 1660  | 4810  | 3860   | 3870   |
| 30    | 15900  | 11200  | 4000   | 13000  | ---    | 7190   | 11900  | 1970   | 1730  | 4880  | 3930   | 3460   |
| 31    | 10100  | ---    | 4100   | 11600  | ---    | 7090   | ---    | 1890   | ---   | 4230  | 4270   | ---    |
| TOTAL | 218500 | 213270 | 269270 | 219680 | 520910 | 533190 | 192600 | 127350 | 53010 | 83410 | 154690 | 128170 |
| MEAN  | 7048   | 7109   | 8686   | 7086   | 18600  | 17200  | 6420   | 4108   | 1767  | 2691  | 4990   | 4272   |
| MAX   | 25100  | 17200  | 23700  | 13000  | 32800  | 47700  | 11900  | 11100  | 2380  | 5360  | 16600  | 18700  |
| MIN   | 1330   | 3600   | 4000   | 3820   | 6970   | 6310   | 3760   | 1890   | 1490  | 1580  | 2010   | 1610   |
| CFSM  | 1.07   | 1.08   | 1.32   | 1.08   | 2.82   | 2.61   | .97    | .62    | .27   | .41   | .76    | .65    |
| IN.   | 1.23   | 1.20   | 1.52   | 1.24   | 2.94   | 3.01   | 1.09   | .72    | .30   | .47   | .87    | .72    |

CAL YR 1984 TOTAL 3493770 MEAN 9546 MAX 50900 MIN 1330 CFSM 1.45 IN 19.72  
WTR YR 1985 TOTAL 2714050 MEAN 7436 MAX 47700 MIN 1330 CFSM 1.13 IN 15.32

## PASCAGOULA RIVER BASIN

95

02479000 PASCAGOULA RIVER AT MERRILL, MS--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT  | NOV   | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN   | JUL    | AUG    | SEP    |
|-------|------|-------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|
| 1     | 3.00 | 7.33  | 10.34  | 5.73   | 10.37  | 19.89  | 7.62   | 10.15  | 3.38  | 3.11   | 4.84   | 5.12   |
| 2     | 2.96 | 6.88  | 9.99   | 6.35   | 11.82  | 20.97  | 7.81   | 9.10   | 3.33  | 3.16   | 4.27   | 4.58   |
| 3     | 2.94 | ---   | 8.07   | 7.61   | 13.50  | 21.51  | 8.19   | 8.74   | 3.28  | 3.29   | 3.86   | 5.01   |
| 4     | 2.92 | ---   | 6.46   | 8.48   | 14.30  | 21.66  | 8.35   | 8.55   | 3.22  | 3.21   | 3.59   | 6.49   |
| 5     | 2.95 | ---   | 11.10  | 8.62   | 14.40  | 21.38  | 8.07   | 7.68   | 3.16  | 3.10   | 3.39   | 5.93   |
| 6     | 2.99 | ---   | 15.45  | 8.09   | 16.00  | 20.53  | 7.68   | 7.01   | 3.10  | 3.30   | 3.37   | 5.19   |
| 7     | 2.93 | ---   | 15.92  | 7.25   | 16.60  | 18.77  | 7.58   | 6.47   | 3.05  | 3.71   | 3.75   | 4.85   |
| 8     | 2.88 | ---   | 15.73  | 6.73   | 17.10  | 15.72  | 7.51   | 6.14   | 3.01  | 3.58   | 4.20   | 4.64   |
| 9     | 2.92 | 8.19  | 14.10  | 6.37   | 17.18  | 12.58  | 7.38   | 5.89   | 2.96  | 3.43   | 4.54   | 4.89   |
| 10    | 3.24 | 7.03  | 11.89  | 6.07   | 17.03  | 10.80  | 7.14   | 5.75   | 3.18  | 3.26   | 4.66   | 4.75   |
| 11    | ---  | 6.67  | 10.22  | 5.83   | 16.41  | 9.86   | 6.77   | 5.58   | 3.31  | 3.15   | 4.82   | 4.81   |
| 12    | ---  | 6.26  | 9.09   | 5.64   | 15.76  | 9.25   | 6.37   | 5.34   | 3.31  | 3.00   | 4.60   | 4.43   |
| 13    | ---  | 5.89  | 8.27   | 5.48   | 15.60  | 8.83   | 6.11   | 5.15   | 3.27  | 2.90   | 4.42   | 4.06   |
| 14    | ---  | 5.65  | 7.71   | 5.36   | 15.45  | 8.48   | 6.00   | 5.14   | 3.19  | 3.06   | 4.11   | 3.79   |
| 15    | ---  | 5.46  | 7.32   | 5.26   | 15.12  | 8.15   | 6.37   | 4.98   | 3.15  | 3.21   | 4.96   | 3.63   |
| 16    | ---  | 5.30  | 7.05   | 5.22   | 14.56  | 7.84   | 6.68   | 4.80   | 3.19  | 3.43   | 6.20   | 3.45   |
| 17    | ---  | 5.24  | 6.84   | 7.29   | 13.16  | 7.71   | 6.75   | 4.75   | 3.26  | 4.30   | 7.50   | 3.30   |
| 18    | ---  | 5.49  | 6.62   | 10.18  | 11.19  | 7.68   | 6.70   | 4.56   | 3.11  | 4.27   | 9.84   | 3.19   |
| 19    | ---  | 6.02  | 6.40   | 10.47  | 9.51   | 7.43   | 6.65   | 4.38   | 3.07  | 3.89   | 11.80  | 3.09   |
| 20    | ---  | 7.18  | 6.23   | 9.90   | 8.66   | 7.19   | 6.51   | 4.21   | 3.15  | 3.86   | 12.77  | 3.00   |
| 21    | ---  | 7.71  | 6.09   | 9.30   | 8.18   | 9.17   | 6.11   | 4.10   | 3.32  | 3.91   | 10.21  | 2.95   |
| 22    | ---  | 7.19  | 5.96   | 8.29   | 7.84   | 12.34  | 5.73   | 4.04   | 3.85  | 3.77   | 8.16   | 2.97   |
| 23    | ---  | 6.65  | 5.88   | 7.30   | 7.58   | 12.17  | 5.45   | 4.02   | 3.90  | 3.94   | 6.69   | 5.88   |
| 24    | ---  | 6.24  | 5.81   | 6.74   | 7.65   | 10.47  | 5.37   | 3.98   | 3.69  | 4.30   | 5.55   | 13.61  |
| 25    | ---  | 5.78  | 5.74   | 6.53   | 10.20  | 9.25   | 6.39   | 3.95   | 3.49  | 4.60   | 5.09   | 10.77  |
| 26    | ---  | 5.45  | 5.63   | 6.38   | 14.37  | 8.61   | 7.37   | 3.88   | 3.29  | 6.19   | 5.21   | 8.43   |
| 27    | ---  | 5.46  | 5.53   | 6.26   | 17.11  | 8.10   | 8.61   | 3.80   | 3.13  | 6.33   | 5.24   | 6.68   |
| 28    | ---  | 8.03  | 5.45   | 7.86   | 18.71  | 7.98   | 9.80   | 3.71   | 3.03  | 5.90   | 5.26   | 5.65   |
| 29    | ---  | 9.09  | 5.40   | 10.76  | ---    | 7.97   | 10.59  | 3.63   | 3.07  | 5.91   | 5.18   | 5.02   |
| 30    | ---  | 10.32 | 5.37   | 11.11  | ---    | 7.83   | 10.62  | 3.54   | 3.14  | 5.97   | 5.23   | 4.66   |
| 31    | ---  | ---   | 5.45   | 10.34  | ---    | 7.77   | ---    | 3.45   | ---   | 5.44   | 5.52   | ---    |
| TOTAL | ---  | ---   | 257.11 | 232.80 | 375.36 | 367.89 | 218.28 | 166.47 | 97.59 | 124.48 | 178.83 | 154.82 |
| MEAN  | ---  | ---   | 8.29   | 7.51   | 13.41  | 11.87  | 7.28   | 5.37   | 3.25  | 4.02   | 5.77   | 5.16   |
| MAX   | ---  | ---   | 15.92  | 11.11  | 18.71  | 21.66  | 10.62  | 10.15  | 3.90  | 6.33   | 12.77  | 13.61  |
| MIN   | ---  | ---   | 5.37   | 5.22   | 7.58   | 7.19   | 5.37   | 3.45   | 2.96  | 2.90   | 3.37   | 2.95   |

## PASCAGOULA RIVER BASIN

02479020 PASCAGOULA RIVER NEAR BENNDALE, MS  
(National stream-quality accounting network station)

LOCATION.--Lat 30 52 42 , long 88 46 20 , on line between secs.15 and 22, T.2 S., R.8 W., St. Stephens Meridian, George County, Hydrologic Unit 03170006, on downstream side of bridge on State Highway 26, 2.1 mi east of Benndale, and at mile 67.0.

DRAINAGE AREA.--6,680 mi<sup>2</sup>.

PERIOD OF RECORD.--Water years 1958-60, 1962, 1964-65, 1970 to current year.

REVISED RECORD.--MDR MS-80-1: Drainage area.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1975 to September 1981.

WATER TEMPERATURE: August 1958 to September 1960, December 1975 to September 1981.

REMARKS.--Prior to Sept. 3, 1980, daily values of specific conductance listed as 50 microsiemens represent 50 microsiemens or less due to instrument limitations. Stream discharge determined 13.8 mi upstream (station 02479000). In water years 1958-59, 1962-63, and 1966-75, equivalent data was collected 13.8 mi upstream (station 02479000).

## WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | TUR-<br>BID-<br>ITY<br>(NTU) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>SATUR-<br>ATION | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | STREP-<br>TOCOCCHI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML) | HARD-<br>NESS<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CAC03) |
|--------------|------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|------------------------------|-------------------------------------|----------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|
| OCT<br>15... | 1700 | 2350                                            | 110                                               | 6.9                            | 23.0                        | 5.5                          | 7.1                                 | 83                                           | 2700                                                           | 980                                                                 | 16                                     | 3                                                      |
| DEC<br>11... | 1330 | 11300                                           | 73                                                | 6.4                            | 11.0                        | 9.5                          | 9.7                                 | 88                                           | 270                                                            | K77                                                                 | 17                                     | 6                                                      |
| FEB<br>27... | 1200 | 47300                                           | 54                                                | 6.4                            | 15.5                        | 35                           | 9.1                                 | 91                                           | 520                                                            | 330                                                                 | 13                                     | 8                                                      |
| APR<br>10... | 1430 | 6170                                            | 90                                                | 6.9                            | 20.5                        | 6.5                          | 7.1                                 | 78                                           | 820                                                            | 440                                                                 | 21                                     | 4                                                      |
| JUN<br>28... | 1300 | 1640                                            | 135                                               | 7.3                            | 30.0                        | 5.1                          | 5.4                                 | 72                                           | 470                                                            | K31                                                                 | 21                                     | 0                                                      |
| AUG<br>28... | 1400 | 4010                                            | 103                                               | 7.6                            | 29.0                        | 10                           | 6.7                                 | 88                                           | 470                                                            | 120                                                                 | 18                                     | 2                                                      |

| DATE         | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LINITY<br>FIELD<br>(MG/L<br>AS<br>CAC03) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) |
|--------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|---------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|
| OCT<br>15... | 4.3                                          | 1.2                                                  | 17                                           | 68                | 2                                       | 1.6                                                 | 13                                                | 6.6                                           | 18                                                  | <.10                                               | 8.8                                               | --                                                                 |
| DEC<br>11... | 5.1                                          | 1.0                                                  | 6.8                                          | 44                | .7                                      | 1.3                                                 | 11                                                | 6.6                                           | 10                                                  | <.10                                               | 9.4                                               | 44                                                                 |
| FEB<br>27... | 4.0                                          | .83                                                  | 4.4                                          | 39                | .5                                      | 1.2                                                 | 5                                                 | 5.4                                           | 6.8                                                 | <.10                                               | 6.5                                               | 48                                                                 |
| APR<br>10... | 6.4                                          | 1.3                                                  | 8.3                                          | 44                | .8                                      | 1.1                                                 | 17                                                | 6.5                                           | 11                                                  | .10                                                | 9.0                                               | 66                                                                 |
| JUN<br>28... | 5.7                                          | 1.5                                                  | 21                                           | 67                | 2                                       | 1.6                                                 | 21                                                | 9.1                                           | 28                                                  | .20                                                | 9.6                                               | 104                                                                |
| AUG<br>28... | 5.3                                          | 1.2                                                  | 11                                           | 54                | 1                                       | 1.9                                                 | 16                                                | 8.2                                           | 14                                                  | <.10                                               | 9.6                                               | 75                                                                 |

| DATE         | SOLIDS,<br>SUM OF<br>CONSTITUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM |
|--------------|----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------|------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------|
| OCT<br>15... | 66                                                             | .09                                                 | 416                                               | .21                                                           | .040                                                          | .50                                                                 | .120                                        | .090                                                 | .080                                                 | 32                                         | 68                                                            |
| DEC<br>11... | 47                                                             | .06                                                 | 1340                                              | <.10                                                          | .060                                                          | .70                                                                 | <.010                                       | <.010                                                | .020                                                 | 160                                        | 83                                                            |
| FEB<br>27... | 33                                                             | .07                                                 | 6130                                              | .19                                                           | .040                                                          | .50                                                                 | .070                                        | .010                                                 | .060                                                 | 72                                         | 94                                                            |
| APR<br>10... | 54                                                             | .09                                                 | 1100                                              | .19                                                           | .030                                                          | .30                                                                 | .060                                        | .010                                                 | .030                                                 | 17                                         | 92                                                            |
| JUN<br>28... | 90                                                             | .14                                                 | 461                                               | .25                                                           | .040                                                          | .40                                                                 | .100                                        | .080                                                 | .060                                                 | 16                                         | --                                                            |
| AUG<br>28... | 62                                                             | .10                                                 | 812                                               | .16                                                           | .140                                                          | 1.8                                                                 | .100                                        | .080                                                 | .060                                                 | 18                                         | 55                                                            |

## PASCAGOULA RIVER BASIN

02479020 PASCAGOULA RIVER NEAR BENNDALE, MS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | ALUM-<br>INUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AL) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | BERYL-<br>LIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BE) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | COBALT,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CO) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) |
|--------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|--------------------------------------------|--------------------------------------------|
| DEC<br>11... | 60                                                  | <1                                           | 32                                           | <.5                                                  | <1                                           | 1                                                   | <3                                           | <1                                           | 250                                        | 2                                          |
| FEB<br>27... | 90                                                  | <1                                           | 32                                           | <.5                                                  | <1                                           | <1                                                  | <3                                           | 1                                            | 270                                        | 3                                          |
| JUN<br>28... | 50                                                  | <1                                           | 31                                           | .5                                                   | <1                                           | 3                                                   | <3                                           | 1                                            | 470                                        | 3                                          |
| AUG<br>28... | 50                                                  | 2                                            | 33                                           | <.5                                                  | <1                                           | 20                                                  | <3                                           | 1                                            | 260                                        | 5                                          |

| DATE         | LITHIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS LI) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | MOLYB-<br>DENUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MO) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | SILVER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AG) | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR) | VANA-<br>DIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS V) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) |
|--------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------------|--------------------------------------------|
| DEC<br>11... | <4                                           | 21                                                   | --                                           | <10                                                   | 1                                            | <1                                                  | <1                                           | 49                                                   | <6                                                 | 11                                         |
| FEB<br>27... | <4                                           | 39                                                   | .3                                           | <10                                                   | 1                                            | <1                                                  | 1                                            | 36                                                   | <6                                                 | 32                                         |
| JUN<br>28... | <4                                           | 71                                                   | .2                                           | <10                                                   | 2                                            | <1                                                  | <1                                           | 75                                                   | <6                                                 | 5                                          |
| AUG<br>28... | <4                                           | 52                                                   | .7                                           | <10                                                   | 2                                            | <1                                                  | <1                                           | 51                                                   | <6                                                 | <3                                         |



## PASCAGOULA RIVER BASIN

02479130 BLACK CREEK NEAR BROOKLYN, MS

LOCATION.--Lat 31°03'06", long 89°12'16", in NW¼NE¼ sec.16, T.1 N., R.12 W., St. Stephens Meridian, Forrest County, Hydrologic Unit 0317007, 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 (revised). 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 Mississippi State Highway Department datum.

REMARKS.--Estimated daily discharges: Dec. 20 to Jan. 29. Records good.

AVERAGE DISCHARGE.--15 years, 692 ft<sup>3</sup>/s, 26.47 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 42,500 ft<sup>3</sup>/s, Apr. 7, 1983, gage height, 29.96 ft from floodmark; minimum, 66 ft<sup>3</sup>/s, Oct. 3, 1982, gage height, 3.38 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Feb. 18, 1961, reached a stage of 25.70 ft, discharge, 21,500 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,500 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Oct. 22 | 0830 | *5,380                            | *16.15              | Aug. 16 | 0330 | 5,150                             | 15.76               |
| Dec. 5  | 0730 | 4,070                             | 13.84               |         |      |                                   |                     |

Minimum daily discharge, 82 ft<sup>3</sup>/s, June 6-7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR  | MAY  | JUN  | JUL  | AUG   | SEP  |
|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|-------|------|
| 1     | 129   | 273   | 390   | 330   | 1560  | 2450  | 450  | 229  | 96   | 132  | 97    | 237  |
| 2     | 128   | 1100  | 301   | 370   | 1170  | 2380  | 448  | 312  | 94   | 113  | 155   | 199  |
| 3     | 114   | 1470  | 269   | 540   | 816   | 1600  | 418  | 423  | 92   | 102  | 142   | 214  |
| 4     | 97    | 1210  | 743   | 500   | 646   | 1440  | 361  | 292  | 89   | 97   | 129   | 267  |
| 5     | 93    | 1130  | 3330  | 440   | 816   | 1240  | 313  | 207  | 86   | 100  | 112   | 235  |
| 6     | 93    | 731   | 1680  | 350   | 1160  | 956   | 390  | 192  | 86   | 113  | 123   | 244  |
| 7     | 95    | 444   | 1080  | 310   | 809   | 750   | 434  | 212  | 82   | 124  | 443   | 334  |
| 8     | 96    | 332   | 835   | 280   | 637   | 642   | 358  | 223  | 82   | 112  | 318   | 226  |
| 9     | 171   | 292   | 723   | 260   | 573   | 557   | 301  | 338  | 83   | 105  | 330   | 209  |
| 10    | 343   | 260   | 582   | 240   | 478   | 504   | 257  | 284  | 85   | 110  | 227   | 196  |
| 11    | 310   | 299   | 449   | 230   | 747   | 466   | 236  | 230  | 94   | 106  | 167   | 186  |
| 12    | 235   | 263   | 397   | 220   | 868   | 435   | 235  | 188  | 107  | 99   | 164   | 173  |
| 13    | 184   | 241   | 368   | 218   | 704   | 422   | 296  | 164  | 129  | 138  | 143   | 154  |
| 14    | 156   | 229   | 347   | 212   | 620   | 403   | 376  | 150  | 113  | 106  | 163   | 145  |
| 15    | 211   | 220   | 336   | 210   | 569   | 373   | 353  | 144  | 103  | 103  | 1820  | 144  |
| 16    | 315   | 231   | 321   | 500   | 444   | 374   | 331  | 142  | 102  | 105  | 4710  | 139  |
| 17    | 485   | 309   | 309   | 1700  | 390   | 487   | 282  | 139  | 110  | 112  | 3050  | 133  |
| 18    | 803   | 318   | 300   | 1300  | 364   | 439   | 236  | 129  | 124  | 105  | 2120  | 129  |
| 19    | 543   | 400   | 293   | 900   | 347   | 372   | 208  | 121  | 200  | 101  | 1850  | 126  |
| 20    | 514   | 370   | 290   | 620   | 336   | 401   | 192  | 116  | 176  | 112  | 1140  | 123  |
| 21    | 730   | 307   | 284   | 500   | 323   | 2580  | 183  | 118  | 139  | 117  | 645   | 121  |
| 22    | 4850  | 273   | 280   | 400   | 311   | 1630  | 176  | 137  | 124  | 107  | 422   | 122  |
| 23    | 2070  | 239   | 276   | 350   | 308   | 1140  | 172  | 156  | 110  | 108  | 326   | 794  |
| 24    | 1240  | 228   | 270   | 360   | 419   | 856   | 201  | 164  | 97   | 192  | 276   | 1230 |
| 25    | 1060  | 219   | 260   | 400   | 1890  | 613   | 299  | 153  | 91   | 352  | 484   | 1030 |
| 26    | 885   | 215   | 250   | 400   | 2560  | 451   | 459  | 134  | 91   | 288  | 647   | 587  |
| 27    | 821   | 395   | 248   | 370   | 2020  | 442   | 630  | 120  | 103  | 182  | 546   | 376  |
| 28    | 614   | 593   | 248   | 1150  | 1870  | 840   | 489  | 112  | 144  | 149  | 422   | 267  |
| 29    | 456   | 440   | 260   | 1070  | ---   | 648   | 379  | 109  | 161  | 123  | 327   | 213  |
| 30    | 369   | 421   | 290   | 893   | ---   | 524   | 300  | 104  | 159  | 106  | 283   | 298  |
| 31    | 320   | ---   | 312   | 892   | ---   | 460   | ---  | 98   | ---  | 99   | 279   | ---  |
| TOTAL | 18530 | 13452 | 16321 | 16515 | 23755 | 26875 | 9763 | 5640 | 3352 | 4018 | 22060 | 8851 |
| MEAN  | 598   | 448   | 526   | 533   | 848   | 867   | 325  | 182  | 112  | 130  | 712   | 295  |
| MAX   | 4850  | 1470  | 3330  | 1700  | 2560  | 2580  | 630  | 423  | 200  | 352  | 4710  | 1230 |
| MIN   | 93    | 215   | 248   | 210   | 308   | 372   | 172  | 98   | 82   | 97   | 97    | 121  |
| CFSM  | 1.69  | 1.26  | 1.48  | 1.50  | 2.39  | 2.44  | .92  | .51  | .32  | .37  | 2.01  | .83  |
| IN.   | 1.94  | 1.41  | 1.71  | 1.73  | 2.49  | 2.82  | 1.02 | .59  | .35  | .42  | 2.31  | .93  |

CAL YR 1984 TOTAL 199610 MEAN 545 MAX 4940 MIN 85 CFSM 1.54 IN 20.92  
WTR YR 1985 TOTAL 169132 MEAN 463 MAX 4850 MIN 82 CFSM 1.30 IN 17.72

## PASCAGOULA RIVER BASIN

99

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

LOCATION.--Lat 31°01'30", long 89°01'00", in NW¼NE¼ sec.29, T.1 N., R.10 W., St. Stephens Meridian, Perry County, Hydrologic Unit 03170007, on right bank at downstream side of 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.

GAGE.--Water-stage recorder. Elevation of gage is 110 ft, above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: May 26 to June 4. Records good.

AVERAGE DISCHARGE.--19 years, 100 ft<sup>3</sup>/s, 25.82 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,500 ft<sup>3</sup>/s, Apr. 4, 1979; maximum gage height 29.51 ft, Apr. 7, 1983; minimum, 4.5 ft<sup>3</sup>/s, Sept. 2, 3, 1968.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1, 1959, reached a stage of 32.06 ft, discharge, 22,800 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date     | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|---------|------|-----------------------------------|---------------------|----------|------|-----------------------------------|---------------------|
| Oct. 22 | 0900 | 1,910                             | 16.98               | Sept. 23 | 2300 | *2,960                            | *20.41              |
| Dec. 5  | 1130 | 2,020                             | 17.43               |          |      |                                   |                     |

Minimum discharge, 6.2 ft<sup>3</sup>/s, June 7, 8, 9, gage height, 5.41 ft.

REVISIONS.-- The maximum discharges for the water years 1959 and 1979 have been revised to 16,700 ft<sup>3</sup>/s, June 1, 1959 and 10,700 ft<sup>3</sup>/s, April 4, 1979, from the rating curve extended above 13,000 ft<sup>3</sup>/s, superseding figures published in reports for 1959 and 1979.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY         | OCT    | NOV     | DEC  | JAN  | FEB  | MAR  | APR  | MAY   | JUN   | JUL   | AUG    | SEP   |
|-------------|--------|---------|------|------|------|------|------|-------|-------|-------|--------|-------|
| 1           | 6.9    | 26      | 63   | 66   | 104  | 483  | 48   | 27    | 7.4   | 8.7   | 9.5    | 13    |
| 2           | 7.0    | 80      | 51   | 71   | 113  | 456  | 42   | 24    | 7.2   | 9.0   | 9.7    | 19    |
| 3           | 7.0    | 114     | 48   | 159  | 84   | 183  | 39   | 21    | 7.0   | 11    | 10     | 320   |
| 4           | 7.0    | 56      | 294  | 115  | 67   | 131  | 36   | 21    | 6.8   | 11    | 10     | 371   |
| 5           | 7.1    | 38      | 1600 | 64   | 293  | 116  | 36   | 19    | 6.6   | 11    | 13     | 84    |
| 6           | 7.3    | 28      | 429  | 49   | 584  | 94   | 71   | 21    | 6.5   | 19    | 16     | 36    |
| 7           | 7.3    | 23      | 174  | 43   | 201  | 74   | 53   | 29    | 6.4   | 21    | 37     | 24    |
| 8           | 7.3    | 20      | 124  | 38   | 121  | 66   | 36   | 22    | 6.3   | 17    | 34     | 18    |
| 9           | 7.9    | 19      | 102  | 35   | 95   | 60   | 30   | 18    | 6.4   | 13    | 32     | 17    |
| 10          | 9.7    | 60      | 85   | 34   | 82   | 54   | 28   | 16    | 16    | 11    | 17     | 16    |
| 11          | 9.7    | 179     | 71   | 32   | 163  | 50   | 26   | 15    | 91    | 11    | 12     | 14    |
| 12          | 8.8    | 72      | 62   | 30   | 156  | 47   | 27   | 14    | 57    | 9.5   | 12     | 12    |
| 13          | 8.2    | 42      | 93   | 29   | 92   | 47   | 34   | 13    | 25    | 9.8   | 14     | 11    |
| 14          | 8.0    | 32      | 110  | 29   | 79   | 43   | 44   | 13    | 13    | 9.6   | 29     | 13    |
| 15          | 16     | 27      | 75   | 29   | 77   | 39   | 131  | 21    | 14    | 12    | 151    | 15    |
| 16          | 23     | 26      | 57   | 42   | 70   | 42   | 62   | 16    | 16    | 53    | 308    | 12    |
| 17          | 26     | 30      | 49   | 553  | 66   | 61   | 38   | 13    | 12    | 33    | 154    | 11    |
| 18          | 35     | 28      | 45   | 287  | 63   | 47   | 30   | 11    | 11    | 17    | 108    | 11    |
| 19          | 30     | 63      | 44   | 113  | 60   | 38   | 26   | 11    | 16    | 15    | 77     | 11    |
| 20          | 20     | 58      | 44   | 77   | 57   | 81   | 24   | 10    | 15    | 23    | 37     | 10    |
| 21          | 167    | 35      | 43   | 56   | 54   | 675  | 23   | 12    | 12    | 15    | 22     | 10    |
| 22          | 1460   | 27      | 42   | 49   | 52   | 239  | 21   | 16    | 11    | 15    | 17     | 14    |
| 23          | 280    | 24      | 40   | 51   | 51   | 110  | 20   | 15    | 9.7   | 21    | 14     | 1510  |
| 24          | 95     | 23      | 37   | 67   | 461  | 78   | 70   | 12    | 8.8   | 28    | 13     | 1300  |
| 25          | 53     | 21      | 35   | 90   | 631  | 61   | 114  | 10    | 8.4   | 23    | 15     | 463   |
| 26          | 38     | 21      | 34   | 59   | 416  | 51   | 123  | 9.6   | 9.1   | 15    | 15     | 187   |
| 27          | 31     | 241     | 33   | 70   | 220  | 57   | 296  | 9.2   | 8.5   | 13    | 15     | 123   |
| 28          | 40     | 570     | 33   | 343  | 165  | 124  | 103  | 8.8   | 9.9   | 12    | 34     | 79    |
| 29          | 56     | 156     | 38   | 170  | ---  | 79   | 49   | 8.4   | 10    | 12    | 26     | 57    |
| 30          | 38     | 86      | 61   | 115  | ---  | 56   | 33   | 8.0   | 9.7   | 11    | 18     | 61    |
| 31          | 31     | ---     | 51   | 110  | ---  | 52   | ---  | 7.7   | ---   | 10    | 14     | ---   |
| TOTAL       | 2548.2 | 2225    | 4067 | 3075 | 4677 | 3794 | 1713 | 471.7 | 443.7 | 499.6 | 1293.2 | 4842  |
| MEAN        | 82.2   | 74.2    | 131  | 99.2 | 167  | 122  | 57.1 | 15.2  | 14.8  | 16.1  | 41.7   | 161   |
| MAX         | 1460   | 570     | 1600 | 553  | 631  | 675  | 296  | 29    | 91    | 53    | 308    | 1510  |
| MIN         | 6.9    | 19      | 33   | 29   | 51   | 38   | 20   | 7.7   | 6.3   | 8.7   | 9.5    | 10    |
| CFSM        | 1.56   | 1.41    | 2.49 | 1.89 | 3.18 | 2.32 | 1.09 | .29   | .28   | .31   | .79    | 3.06  |
| IN.         | 1.80   | 1.57    | 2.88 | 2.17 | 3.31 | 2.68 | 1.21 | .33   | .31   | .35   | .91    | 3.42  |
| CAL YR 1984 | TOTAL  | 31705.8 | MEAN | 86.6 | MAX  | 2100 | MIN  | 6.9   | CFSM  | 1.65  | IN     | 22.42 |
| WTR YR 1985 | TOTAL  | 29649.4 | MEAN | 81.2 | MAX  | 1600 | MIN  | 6.3   | CFSM  | 1.54  | IN     | 20.97 |

## 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 1984 TO SEPTEMBER 1985

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | TUR-<br>BID-<br>ITY<br>(NTU) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | STREP-<br>TOCOCCI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML) | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CACO3) |
|--------------|------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|------------------------------|-------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|
| OCT<br>16... | 1500 | 21                                              | 20                                                | 6.0                            | 23.5                        | 3.1                          | 8.1                                 | 95                                                             | K1500                                                          | 720                                                                | 4                                      | 3                                                      |
| JAN<br>16... | 1130 | 28                                              | 22                                                | 5.5                            | 7.0                         | 3.0                          | 10.6                                | 87                                                             | K22                                                            | K20                                                                | 3                                      | 2                                                      |
| APR<br>10... | 1130 | 28                                              | 20                                                | 5.6                            | 16.5                        | 2.5                          | 9.9                                 | 101                                                            | K25                                                            | K9                                                                 | 3                                      | 2                                                      |
| JUL<br>17... | 1000 | 34                                              | 26                                                | 5.0                            | 28.5                        | 5.0                          | 7.5                                 | 96                                                             | K10                                                            | K8                                                                 | 6                                      | 4                                                      |

| DATE         | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LINITY<br>FIELD<br>(MG/L<br>AS<br>CACO3) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) |
|--------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|---------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|
| OCT<br>16... | .72                                          | .45                                                  | 2.4                                          | 53                | .6                                      | .80                                                 | 1                                                 | 1.7                                           | 3.1                                                 | .10                                                | 9.7                                               | 34                                                                 |
| JAN<br>16... | .59                                          | .47                                                  | 1.9                                          | 52                | .5                                      | .30                                                 | 1                                                 | .9                                            | 3.8                                                 | <.10                                               | 11                                                | 17                                                                 |
| APR<br>10... | .64                                          | .40                                                  | 2.1                                          | 56                | .5                                      | .30                                                 | 1                                                 | 1.6                                           | 3.9                                                 | <.10                                               | 9.0                                               | 16                                                                 |
| JUL<br>17... | 1.2                                          | .64                                                  | 2.0                                          | 40                | .4                                      | .60                                                 | 2                                                 | 3.2                                           | 4.1                                                 | <.10                                               | 9.4                                               | 33                                                                 |

| DATE         | SOLIDS,<br>SUM OF<br>CONSTITUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | SEDI-<br>MENT,<br>SUS-<br>PENDEd<br>(MG/L) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM |
|--------------|----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------|
| OCT<br>16... | 20                                                             | .05                                                 | 1.9                                               | <.10                                                          | .050                                                          | .50                                                                 | .060                                        | <.010                                                | .010                                                           | 14                                         | 40                                                            |
| JAN<br>16... | 20                                                             | .02                                                 | 1.3                                               | .12                                                           | .060                                                          | .40                                                                 | .020                                        | .020                                                 | .020                                                           | 20                                         | 16                                                            |
| APR<br>10... | 19                                                             | .02                                                 | 1.2                                               | <.10                                                          | <.010                                                         | .30                                                                 | <.010                                       | <.010                                                | <.010                                                          | 30                                         | 90                                                            |
| JUL<br>17... | 23                                                             | .04                                                 | 3.0                                               | <.10                                                          | .030                                                          | .50                                                                 | <.010                                       | <.010                                                | <.010                                                          | 7                                          | 98                                                            |

## PASCAGOULA RIVER BASIN

02479155 CYPRESS CREEK NEAR JANICE, MS--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | ALUM-<br>INUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AL) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | BERYL-<br>LIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BE) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | COBALT,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CO) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) |
|--------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|--------------------------------------------|--------------------------------------------|
| JAN<br>16... | 80                                                  | <1                                           | 23                                           | .6                                                   | 2                                            | 2                                                   | <3                                           | <1                                           | 150                                        | 1                                          |
| JUL<br>17... | 190                                                 | 2                                            | 49                                           | <.5                                                  | <1                                           | 8                                                   | <3                                           | 5                                            | 270                                        | 2                                          |

| DATE         | LITHIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS LI) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | MOLYB-<br>DENUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MO) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | SILVER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AG) | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR) | VANA-<br>DIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS V) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) |
|--------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------------|--------------------------------------------|
| JAN<br>16... | 7                                            | 35                                                   | <.1                                          | <10                                                   | <1                                           | <1                                                  | <1                                           | 7                                                    | <6                                                 | 3                                          |
| JUL<br>17... | 7                                            | 56                                                   | .1                                           | <10                                                   | 5                                            | <1                                                  | <1                                           | 13                                                   | <6                                                 | 16                                         |

## RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | GROSS<br>ALPHA,<br>DIS-<br>SOLVED<br>(UG/L<br>AS<br>U-NAT) | GROSS<br>ALPHA,<br>SUSP.<br>TOTAL<br>(UG/L<br>AS<br>U-NAT) | GROSS<br>BETA,<br>DIS-<br>SOLVED<br>(PCI/L<br>AS<br>CS-137) | GROSS<br>BETA,<br>SUSP.<br>TOTAL<br>(PCI/L<br>AS<br>CS-137) | GROSS<br>BETA,<br>DIS-<br>SOLVED<br>(PCI/L<br>AS SR/<br>YT-90) | GROSS<br>BETA,<br>SUSP.<br>TOTAL<br>(PCI/L<br>AS SR/<br>YT-90) | RADIUM<br>226,<br>DIS-<br>SOLVED,<br>RADON<br>METHOD<br>(PCI/L) | URANIUM<br>DIS-<br>SOLVED,<br>EXTRAC-<br>TION<br>(UG/L) |
|--------------|------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------|
| OCT<br>16... | <.6                                                        | <.5                                                        | 1.4                                                         | <.6                                                         | 1.2                                                            | <.5                                                            | .08                                                             | .03                                                     |

## PASCAGOULA RIVER BASIN

02479160 BLACK CREEK NEAR WIGGINS, MS

LOCATION.--Lat 30°51'12", long 88°54'49", in SW¼ 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.

GAGE.--Water-stage recorder. Datum of gage is 48.94 ft above National Geodetic Vertical Datum of 1929. Prior to 1978 water year, at datum 0.05 ft lower.

REMARKS.--Estimated daily discharges: Aug. 18-23. Records good.

AVERAGE DISCHARGE.--14 years, 1,438 ft<sup>3</sup>/s, 27.86 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 43,900 ft<sup>3</sup>/s, Apr. 8, 1983, gage height, 28.81 ft; minimum, 100 ft<sup>3</sup>/s, Oct. 5, 1982, gage height, 3.85 ft; minimum gage height, 3.80 ft, Oct. 19, 20, 1972.

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. 6 | 1530 | *6,780                            | *18.66              |      |      |                                   |                     |

Minimum discharge, 154 ft<sup>3</sup>/s, June 9, gage height, 3.95 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN  | JUL  | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|-------|
| 1     | 207   | 579   | 796   | 685   | 1840  | 3330  | 880   | 556   | 200  | 261  | 188   | 515   |
| 2     | 207   | 621   | 705   | 720   | 2250  | 5100  | 832   | 473   | 195  | 228  | 177   | 461   |
| 3     | 215   | 2050  | 657   | 1040  | 1930  | 4750  | 797   | 531   | 188  | 201  | 230   | 450   |
| 4     | 213   | 1970  | 765   | 1260  | 1370  | 2820  | 749   | 602   | 182  | 191  | 337   | 1630  |
| 5     | 186   | 1550  | 4450  | 967   | 1460  | 2360  | 683   | 484   | 178  | 204  | 267   | 839   |
| 6     | 192   | 1270  | 6520  | 759   | 4050  | 2110  | 683   | 406   | 171  | 268  | 283   | 554   |
| 7     | 203   | 877   | 4860  | 638   | 3050  | 1680  | 791   | 437   | 166  | 373  | 545   | 489   |
| 8     | 205   | 651   | 2250  | 581   | 1860  | 1330  | 744   | 509   | 162  | 321  | 1110  | 554   |
| 9     | 203   | 558   | 1690  | 539   | 1390  | 1160  | 638   | 483   | 158  | 251  | 799   | 438   |
| 10    | 259   | 515   | 1390  | 512   | 1170  | 1040  | 573   | 533   | 169  | 228  | 612   | 392   |
| 11    | 446   | 679   | 1100  | 489   | 1330  | 961   | 527   | 469   | 278  | 204  | 429   | 358   |
| 12    | 417   | 674   | 936   | 469   | 2110  | 900   | 502   | 407   | 410  | 195  | 325   | 327   |
| 13    | 343   | 543   | 871   | 453   | 1680  | 861   | 505   | 360   | 327  | 180  | 297   | 302   |
| 14    | 288   | 484   | 908   | 448   | 1270  | 826   | 575   | 330   | 283  | 222  | 286   | 273   |
| 15    | 294   | 452   | 821   | 443   | 1110  | 782   | 774   | 347   | 254  | 203  | 485   | 259   |
| 16    | 523   | 428   | 747   | 451   | 998   | 736   | 722   | 362   | 251  | 208  | 3030  | 249   |
| 17    | 553   | 447   | 690   | 2480  | 866   | 823   | 612   | 310   | 250  | 308  | 5340  | 239   |
| 18    | 1030  | 535   | 651   | 3750  | 809   | 887   | 530   | 287   | 218  | 274  | 4000  | 227   |
| 19    | 1110  | 594   | 625   | 2250  | 768   | 769   | 471   | 272   | 244  | 229  | 3000  | 215   |
| 20    | 781   | 779   | 610   | 1410  | 736   | 711   | 441   | 257   | 314  | 220  | 2000  | 206   |
| 21    | 714   | 637   | 602   | 1050  | 706   | 3250  | 409   | 249   | 310  | 226  | 1500  | 199   |
| 22    | 3400  | 530   | 587   | 835   | 674   | 4850  | 392   | 275   | 267  | 221  | 1100  | 198   |
| 23    | 6030  | 477   | 582   | 738   | 650   | 2830  | 377   | 310   | 237  | 246  | 950   | 2740  |
| 24    | 5210  | 436   | 571   | 726   | 1140  | 1880  | 404   | 322   | 209  | 341  | 1590  | 6300  |
| 25    | 2190  | 417   | 549   | 879   | 3030  | 1400  | 732   | 320   | 191  | 689  | 937   | 5330  |
| 26    | 1530  | 409   | 527   | 868   | 4380  | 1040  | 726   | 297   | 179  | 657  | 657   | 2630  |
| 27    | 1250  | 481   | 511   | 753   | 4530  | 884   | 2070  | 267   | 169  | 469  | 529   | 1380  |
| 28    | 1110  | 2300  | 522   | 1960  | 3560  | 1320  | 1640  | 246   | 183  | 349  | 470   | 888   |
| 29    | 951   | 1700  | 522   | 2710  | ---   | 1600  | 915   | 231   | 263  | 289  | 861   | 672   |
| 30    | 773   | 943   | 603   | 2000  | ---   | 1130  | 682   | 221   | 276  | 244  | 816   | 566   |
| 31    | 655   | ---   | 675   | 1820  | ---   | 956   | ---   | 213   | ---  | 210  | 657   | ---   |
| TOTAL | 31688 | 24586 | 38293 | 34683 | 50717 | 55076 | 21376 | 11366 | 6882 | 8710 | 33807 | 29880 |
| MEAN  | 1022  | 820   | 1235  | 1119  | 1811  | 1777  | 713   | 367   | 229  | 281  | 1091  | 996   |
| MAX   | 6030  | 2300  | 6520  | 3750  | 4530  | 5100  | 2070  | 602   | 410  | 689  | 5340  | 6300  |
| MIN   | 186   | 409   | 511   | 443   | 650   | 711   | 377   | 213   | 158  | 180  | 177   | 198   |
| CFSM  | 1.46  | 1.17  | 1.76  | 1.60  | 2.58  | 2.54  | 1.02  | .52   | .33  | .40  | 1.56  | 1.42  |
| IN.   | 1.68  | 1.30  | 2.03  | 1.84  | 2.69  | 2.92  | 1.13  | .60   | .37  | .46  | 1.79  | 1.59  |

|             |       |        |      |      |     |      |     |     |      |      |    |       |
|-------------|-------|--------|------|------|-----|------|-----|-----|------|------|----|-------|
| CAL YR 1984 | TOTAL | 395947 | MEAN | 1082 | MAX | 7400 | MIN | 186 | CFSM | 1.54 | IN | 21.01 |
| WTR YR 1985 | TOTAL | 347064 | MEAN | 951  | MAX | 6520 | MIN | 158 | CFSM | 1.36 | IN | 18.42 |



## PASCAGOULA RIVER BASIN

024791834 RED CREEK NEAR CARNES, MS

LOCATION.--Lat 30 55 04 , long 89 19 10 , in SE NW sec.32, T.1 S., R.13 W., St. Stephens Meridian, Forrest County, Hydrologic Unit 03170007, at bridge on county road, 6.2 mi southwest of Carnes.

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

PERIOD OF RECORD.--October 1984 to August 1985 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1984 to April 1986 (discontinued).

WATER TEMPERATURE: November 1984 to April 1986 (discontinued).

INSTRUMENTATION.--Specific conductance-temperature recorder from November 1984 to April 1986.

REMARKS.--Interruptions in the record were due to malfunctions of the instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 204 microsiemens July 17, 1985; minimum, 18 microsiemens Dec. 14, 1985.

WATER TEMPERATURE: Maximum, 26.5 C June 5, 1985; minimum, 2.5 C Jan. 22, 1985.

## WATER QUALITY DATA, OCTOBER 1984 TO AUGUST 1985

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>AS<br>CACO3) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) |
|-------|------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|-------------------------------------|----------------------------------------------------------------|----------------------------------------|--------------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|
| OCT   |      |                                                 |                                                   |                                |                             |                                     |                                                                |                                        |                                                              |                                              |                                                      |                                              |
| 05... | 0950 | 14                                              | 173                                               | 6.4                            | 15.5                        | 9.1                                 | 92                                                             | 27                                     | 19                                                           | 7.6                                          | 2.0                                                  | 20                                           |
| NOV   |      |                                                 |                                                   |                                |                             |                                     |                                                                |                                        |                                                              |                                              |                                                      |                                              |
| 29... | 0955 | 202                                             | 67                                                | 6.0                            | 11.0                        | 10.4                                | 95                                                             | --                                     | --                                                           | --                                           | --                                                   | 6.8                                          |
| MAR   |      |                                                 |                                                   |                                |                             |                                     |                                                                |                                        |                                                              |                                              |                                                      |                                              |
| 22... | 1300 | 764                                             | 40                                                | 5.8                            | 16.5                        | --                                  | --                                                             | 7                                      | 3                                                            | 1.7                                          | .71                                                  | 4.1                                          |
| APR   |      |                                                 |                                                   |                                |                             |                                     |                                                                |                                        |                                                              |                                              |                                                      |                                              |
| 24... | 1550 | 32                                              | 103                                               | 6.2                            | 22.0                        | --                                  | --                                                             | --                                     | --                                                           | --                                           | --                                                   | 12                                           |
| MAY   |      |                                                 |                                                   |                                |                             |                                     |                                                                |                                        |                                                              |                                              |                                                      |                                              |
| 15... | 1030 | 27                                              | 105                                               | 6.1                            | 20.5                        | --                                  | --                                                             | --                                     | --                                                           | --                                           | --                                                   | 11                                           |
| JUN   |      |                                                 |                                                   |                                |                             |                                     |                                                                |                                        |                                                              |                                              |                                                      |                                              |
| 19... | 1155 | 21                                              | 120                                               | 6.3                            | 23.0                        | --                                  | --                                                             | --                                     | --                                                           | --                                           | --                                                   | 14                                           |
| JUL   |      |                                                 |                                                   |                                |                             |                                     |                                                                |                                        |                                                              |                                              |                                                      |                                              |
| 24... | 1745 | 46                                              | 77                                                | 5.9                            | 23.0                        | --                                  | --                                                             | --                                     | --                                                           | --                                           | --                                                   | 8.1                                          |
| AUG   |      |                                                 |                                                   |                                |                             |                                     |                                                                |                                        |                                                              |                                              |                                                      |                                              |
| 07... | 1615 | 279                                             | 75                                                | 5.5                            | 24.0                        | --                                  | --                                                             | --                                     | --                                                           | --                                           | --                                                   | 6.4                                          |

| DATE  | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LITY<br>LAB<br>(MG/L<br>AS<br>CACO3) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | BROMIDE<br>DIS-<br>SOLVED<br>(MG/L<br>AS BR) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR) |
|-------|-------------------|-----------------------------------------|-----------------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|----------------------------------------------|------------------------------------------------------|
| OCT   |                   |                                         |                                                     |                                               |                                               |                                                     |                                              |                                                                    |                                                     |                                                   |                                              |                                                      |
| 05... | 60                | 2                                       | 1.3                                                 | 8.0                                           | 1.3                                           | 46                                                  | .30                                          | 124                                                                | .17                                                 | 4.7                                               | 96                                           | 170                                                  |
| NOV   |                   |                                         |                                                     |                                               |                                               |                                                     |                                              |                                                                    |                                                     |                                                   |                                              |                                                      |
| 29... | --                | --                                      | --                                                  | --                                            | --                                            | 17                                                  | --                                           | 39                                                                 | .05                                                 | 21                                                | --                                           | --                                                   |
| MAR   |                   |                                         |                                                     |                                               |                                               |                                                     |                                              |                                                                    |                                                     |                                                   |                                              |                                                      |
| 22... | 51                | .7                                      | 1.1                                                 | 4.0                                           | 2.4                                           | 7.5                                                 | .08                                          | 28                                                                 | .04                                                 | 58                                                | 43                                           | 26                                                   |
| APR   |                   |                                         |                                                     |                                               |                                               |                                                     |                                              |                                                                    |                                                     |                                                   |                                              |                                                      |
| 24... | --                | --                                      | --                                                  | --                                            | --                                            | 25                                                  | --                                           | 81                                                                 | .11                                                 | 7.0                                               | --                                           | --                                                   |
| MAY   |                   |                                         |                                                     |                                               |                                               |                                                     |                                              |                                                                    |                                                     |                                                   |                                              |                                                      |
| 15... | --                | --                                      | --                                                  | --                                            | --                                            | 28                                                  | --                                           | --                                                                 | --                                                  | --                                                | --                                           | --                                                   |
| JUN   |                   |                                         |                                                     |                                               |                                               |                                                     |                                              |                                                                    |                                                     |                                                   |                                              |                                                      |
| 19... | --                | --                                      | --                                                  | --                                            | --                                            | 28                                                  | --                                           | --                                                                 | --                                                  | --                                                | --                                           | --                                                   |
| JUL   |                   |                                         |                                                     |                                               |                                               |                                                     |                                              |                                                                    |                                                     |                                                   |                                              |                                                      |
| 24... | --                | --                                      | --                                                  | --                                            | --                                            | 17                                                  | --                                           | --                                                                 | --                                                  | --                                                | --                                           | --                                                   |
| AUG   |                   |                                         |                                                     |                                               |                                               |                                                     |                                              |                                                                    |                                                     |                                                   |                                              |                                                      |
| 07... | --                | --                                      | --                                                  | --                                            | --                                            | 15                                                  | --                                           | --                                                                 | --                                                  | --                                                | --                                           | --                                                   |

## PASCAGOULA RIVER BASIN

024791834 RED CREEK NEAR CARNES, MS--Continued

SPECIFIC CONDUCTANCE, MICRO SIEMENS PER CENTIMETER AT 25 DEG. C, NOVEMBER 1984 TO APRIL 1986

| DAY      | MAX | MIN | MEAN     | MAX | MIN | MEAN     | MAX | MIN | MEAN    | MAX | MIN | MEAN |
|----------|-----|-----|----------|-----|-----|----------|-----|-----|---------|-----|-----|------|
| OCTOBER  |     |     | NOVEMBER |     |     | DECEMBER |     |     | JANUARY |     |     |      |
| 1        |     |     |          | --- | --- | ---      | 80  | 63  | 68      | 92  | 88  | 90   |
| 2        |     |     |          | --- | --- | ---      | 98  | 71  | 85      | 131 | 81  | 99   |
| 3        |     |     |          | --- | --- | ---      | 88  | 68  | 71      | 143 | 78  | 108  |
| 4        |     |     |          | --- | --- | ---      | 73  | 41  | 61      | 130 | 88  | 110  |
| 5        |     |     |          | --- | --- | ---      | 51  | 34  | 44      | 127 | 81  | 108  |
| 6        |     |     |          | --- | --- | ---      | 34  | 32  | 33      | 122 | 81  | 105  |
| 7        |     |     |          | --- | --- | ---      | 37  | 31  | 35      | 121 | 85  | 104  |
| 8        |     |     |          | 56  | 55  | 55       | 43  | 37  | 40      | 131 | 87  | 110  |
| 9        |     |     |          | 59  | 56  | 57       | 48  | 44  | 46      | 131 | 86  | 118  |
| 10       |     |     |          | 61  | 59  | 60       | 51  | 47  | 49      | 137 | 89  | 125  |
| 11       |     |     |          | 65  | 59  | 61       | 54  | 49  | 52      | 134 | 88  | 102  |
| 12       |     |     |          | 69  | 66  | 67       | 57  | 52  | 55      | 145 | 97  | 117  |
| 13       |     |     |          | 67  | 65  | 66       | 62  | 57  | 59      | 148 | 113 | 130  |
| 14       |     |     |          | 68  | 65  | 67       | 65  | 61  | 62      | 153 | 121 | 140  |
| 15       |     |     |          | 73  | 68  | 71       | 67  | 64  | 66      | 154 | 103 | 121  |
| 16       |     |     |          | 76  | 74  | 75       | 70  | 67  | 68      | 104 | 61  | 99   |
| 17       |     |     |          | 77  | 76  | 77       | 72  | 70  | 71      | 88  | 51  | 72   |
| 18       |     |     |          | 78  | 75  | 77       | 103 | 72  | 77      | 64  | 50  | 53   |
| 19       |     |     |          | 82  | 54  | 70       | 105 | 76  | 85      | 52  | 49  | 50   |
| 20       |     |     |          | 84  | 71  | 80       | 106 | 76  | 81      | 58  | 52  | 56   |
| 21       |     |     |          | 76  | 65  | 68       | 115 | 77  | 86      | 65  | 57  | 62   |
| 22       |     |     |          | 73  | 65  | 68       | 110 | 80  | 91      | 71  | 65  | 69   |
| 23       |     |     |          | 70  | 65  | 67       | 120 | 81  | 87      | 75  | 70  | 73   |
| 24       |     |     |          | 71  | 65  | 69       | 123 | 82  | 88      | 75  | 72  | 73   |
| 25       |     |     |          | 74  | 68  | 70       | 128 | 85  | 96      | 77  | 71  | 74   |
| 26       |     |     |          | 77  | 71  | 73       | 122 | 86  | 90      | 71  | 70  | 70   |
| 27       |     |     |          | 76  | 32  | 62       | 116 | 85  | 91      | 73  | 58  | 69   |
| 28       |     |     |          | 88  | 59  | 78       | 94  | 87  | 91      | 83  | 53  | 69   |
| 29       |     |     |          | 68  | 64  | 66       | 136 | 93  | 96      | 54  | 47  | 50   |
| 30       |     |     |          | 66  | 65  | 66       | 119 | 92  | 96      | 51  | 45  | 48   |
| 31       |     |     |          | --- | --- | ---      | 108 | 93  | 94      | 92  | 52  | 61   |
| MONTH    |     |     |          | 88  | 32  | 68       | 136 | 31  | 71      | 154 | 45  | 88   |
|          |     |     |          |     |     |          |     |     |         |     |     |      |
| FEBRUARY |     |     | MARCH    |     |     | APRIL    |     |     | MAY     |     |     |      |
| 1        | 94  | 55  | 60       | 82  | 44  | 50       | 125 | 64  | 93      | 78  | 72  | 75   |
| 2        | 89  | 49  | 58       | 63  | 39  | 50       | 125 | 67  | 93      | 85  | 77  | 81   |
| 3        | 52  | 49  | 51       | 38  | 37  | 38       | 125 | 71  | 109     | 89  | 83  | 86   |
| 4        | 56  | 51  | 53       | 69  | 39  | 46       | 127 | 76  | 106     | 90  | 85  | 87   |
| 5        | 59  | 55  | 56       | 54  | 47  | 50       | 132 | 78  | 108     | 91  | 89  | 90   |
| 6        | 61  | 57  | 60       | 56  | 54  | 55       | 138 | 78  | 106     | 103 | 90  | 92   |
| 7        | 61  | 53  | 57       | 100 | 55  | 61       | 142 | 80  | 113     | 143 | 84  | 95   |
| 8        | 56  | 53  | 54       | 63  | 58  | 60       | 146 | 81  | 113     | 83  | 70  | 74   |
| 9        | 58  | 53  | 56       | 67  | 63  | 65       | 139 | 84  | 120     | 69  | 54  | 60   |
| 10       | 62  | 59  | 61       | 118 | 67  | 95       | 148 | 86  | 124     | 78  | 64  | 73   |
| 11       | 67  | 62  | 65       | 120 | 71  | 96       | 158 | 88  | 129     | 77  | 73  | 75   |
| 12       | 78  | 51  | 65       | 124 | 75  | 99       | 154 | 92  | 132     | 87  | 77  | 82   |
| 13       | 73  | 54  | 59       | 123 | 77  | 102      | 151 | 92  | 133     | 95  | 87  | 91   |
| 14       | 55  | 53  | 54       | 133 | 81  | 105      | 163 | 90  | 129     | 98  | 95  | 96   |
| 15       | 59  | 55  | 57       | 128 | 84  | 105      | 145 | 89  | 117     | 104 | 99  | 102  |
| 16       | 65  | 60  | 63       | 135 | 84  | 109      | 160 | 87  | 123     | 108 | 104 | 107  |
| 17       | 67  | 64  | 66       | 141 | 86  | 112      | 149 | 86  | 120     | 112 | 107 | 110  |
| 18       | 71  | 67  | 70       | 130 | 81  | 107      | 157 | 88  | 123     | 110 | 108 | 109  |
| 19       | 74  | 67  | 72       | 125 | 79  | 102      | 159 | 90  | 134     | 110 | 106 | 108  |
| 20       | 76  | 64  | 72       | 128 | 51  | 96       | 164 | 96  | 132     | 113 | 109 | 111  |
| 21       | 126 | 76  | 83       | 78  | 46  | 61       | 162 | 96  | 133     | 117 | 113 | 115  |
| 22       | 121 | 80  | 94       | 48  | 41  | 43       | 166 | 100 | 140     | 117 | 100 | 111  |
| 23       | 84  | 81  | 83       | 92  | 39  | 61       | 175 | 103 | 140     | 138 | 105 | 129  |
| 24       | 127 | 83  | 97       | 97  | 48  | 74       | 105 | 96  | 101     | 138 | 118 | 126  |
| 25       | 120 | 71  | 85       | 109 | 54  | 82       | 105 | 97  | 100     | 123 | 119 | 121  |
| 26       | 77  | 50  | 68       | 110 | 60  | 87       | 103 | 51  | 96      | 123 | 119 | 121  |
| 27       | 49  | 40  | 43       | 121 | 59  | 91       | 106 | 61  | 76      | 119 | 115 | 117  |
| 28       | 46  | 40  | 43       | 115 | 56  | 87       | 136 | 61  | 99      | 118 | 116 | 117  |
| 29       | --- | --- | ---      | 111 | 52  | 73       | 68  | 61  | 65      | 120 | 115 | 117  |
| 30       | --- | --- | ---      | 107 | 51  | 74       | 72  | 67  | 69      | 123 | 119 | 121  |
| 31       | --- | --- | ---      | 120 | 57  | 86       | --- | --- | ---     | 128 | 123 | 126  |
| MONTH    | 127 | 40  | 64       | 141 | 37  | 78       | 175 | 51  | 113     | 143 | 54  | 101  |

## PASCAGOULA RIVER BASIN

024791834 RED CREEK NEAR CARNES, MS--Continued

SPECIFIC CONDUCTANCE, MICRO SIEMENS PER CENTIMETER AT 25 DEG. C, NOVEMBER 1984 TO APRIL 1986

| DAY   | MAX     | MIN | MEAN | MAX      | MIN | MEAN | MAX      | MIN | MEAN | MAX       | MIN | MEAN |
|-------|---------|-----|------|----------|-----|------|----------|-----|------|-----------|-----|------|
|       | JUNE    |     |      | JULY     |     |      | AUGUST   |     |      | SEPTEMBER |     |      |
| 1     | 131     | 127 | 129  | 117      | 112 | 115  | 132      | 70  | 100  | 137       | 102 | 124  |
| 2     | 131     | 129 | 130  | 114      | 112 | 113  | 130      | 91  | 110  | 132       | 95  | 117  |
| 3     | 137     | 129 | 132  | 113      | 111 | 112  | 112      | 83  | 99   | 124       | 78  | 104  |
| 4     | 139     | 132 | 135  | 114      | 111 | 112  | 114      | 80  | 97   | 129       | 91  | 109  |
| 5     | 139     | 131 | 134  | 117      | 110 | 113  | 125      | 102 | 113  | 135       | 97  | 122  |
| 6     | 139     | 133 | 136  | 139      | 116 | 125  | 143      | 49  | 109  | 136       | 98  | 121  |
| 7     | 141     | 133 | 138  | 170      | 139 | 160  | 125      | 40  | 65   | 127       | 95  | 112  |
| 8     | 139     | 131 | 136  | 169      | 150 | 158  | 144      | 70  | 102  | 147       | 102 | 131  |
| 9     | 137     | 131 | 134  | 151      | 143 | 148  | 131      | 99  | 110  | 152       | 111 | 132  |
| 10    | 132     | 129 | 130  | 142      | 134 | 137  | 123      | 95  | 105  | 141       | 108 | 126  |
| 11    | ---     | --- | ---  | 141      | 130 | 134  | 112      | 94  | 101  | 138       | 105 | 123  |
| 12    | ---     | --- | ---  | 140      | 131 | 135  | 121      | 95  | 103  | 134       | 105 | 121  |
| 13    | ---     | --- | ---  | 143      | 132 | 135  | 115      | 95  | 104  | 141       | 103 | 119  |
| 14    | ---     | --- | ---  | 161      | 135 | 147  | 121      | 97  | 106  | 133       | 101 | 117  |
| 15    | ---     | --- | ---  | 141      | 110 | 118  | 124      | 22  | 68   | 137       | 104 | 122  |
| 16    | ---     | --- | ---  | 146      | 110 | 126  | 62       | 32  | 42   | 143       | 118 | 131  |
| 17    | ---     | --- | ---  | 204      | 130 | 182  | 34       | 31  | 33   | 150       | 106 | 133  |
| 18    | 118     | 113 | 115  | 195      | 154 | 186  | 36       | 34  | 35   | 139       | 105 | 122  |
| 19    | 135     | 119 | 128  | 174      | 121 | 135  | 42       | 34  | 38   | 140       | 101 | 120  |
| 20    | 155     | 135 | 146  | 183      | 154 | 168  | 66       | 42  | 53   | 141       | 116 | 131  |
| 21    | 144     | 124 | 134  | 163      | 145 | 153  | 77       | 48  | 62   | 141       | 113 | 128  |
| 22    | 145     | 113 | 129  | 157      | 143 | 151  | 86       | 54  | 70   | 142       | 118 | 130  |
| 23    | 112     | 108 | 109  | 156      | 113 | 139  | 98       | 59  | 79   | 134       | 57  | 101  |
| 24    | 110     | 108 | 109  | 117      | 78  | 94   | 105      | 66  | 88   | 102       | 45  | 69   |
| 25    | 113     | 108 | 111  | 175      | 82  | 140  | 112      | 77  | 95   | 44        | 41  | 42   |
| 26    | 117     | 101 | 112  | 160      | 115 | 131  | 116      | 73  | 96   | 66        | 40  | 47   |
| 27    | 113     | 94  | 105  | 115      | 101 | 106  | 116      | 75  | 96   | 84        | 45  | 65   |
| 28    | 112     | 99  | 104  | 124      | 105 | 111  | 107      | 90  | 95   | 87        | 48  | 66   |
| 29    | 137     | 101 | 124  | 120      | 105 | 111  | 104      | 91  | 95   | 95        | 53  | 72   |
| 30    | 125     | 112 | 114  | 121      | 104 | 112  | 123      | 90  | 108  | 94        | 23  | 64   |
| 31    | ---     | --- | ---  | 122      | 84  | 107  | 136      | 110 | 123  | ---       | --- | ---  |
| MONTH | ---     | --- | ---  | 204      | 78  | 133  | 144      | 22  | 87   | 152       | 23  | 107  |
|       | OCTOBER |     |      | NOVEMBER |     |      | DECEMBER |     |      | JANUARY   |     |      |
| 1     | 91      | 44  | 73   | 40       | 37  | 39   | 87       | 73  | 78   | 77        | 61  | 67   |
| 2     | 87      | 43  | 54   | 44       | 40  | 42   | 87       | 71  | 78   | 85        | 54  | 59   |
| 3     | 71      | 43  | 47   | 69       | 44  | 57   | 86       | 68  | 74   | 71        | 54  | 56   |
| 4     | 90      | 51  | 74   | 68       | 43  | 50   | 82       | 50  | 73   | 71        | 56  | 64   |
| 5     | 97      | 60  | 79   | 80       | 47  | 64   | 78       | 76  | 77   | 76        | 60  | 63   |
| 6     | 102     | 64  | 87   | 100      | 53  | 71   | 91       | 78  | 80   | 90        | 63  | 69   |
| 7     | 108     | 66  | 88   | 64       | 54  | 56   | 100      | 81  | 86   | 81        | 65  | 69   |
| 8     | 113     | 70  | 92   | 72       | 56  | 63   | 85       | 82  | 84   | 115       | 57  | 73   |
| 9     | 116     | 76  | 97   | 75       | 60  | 64   | 87       | 78  | 86   | 66        | 52  | 59   |
| 10    | 125     | 81  | 102  | 81       | 63  | 69   | 87       | 85  | 86   | 61        | 54  | 58   |
| 11    | 133     | 86  | 109  | 81       | 66  | 69   | 87       | 66  | 82   | 69        | 56  | 62   |
| 12    | 137     | 91  | 113  | 77       | 69  | 71   | 90       | 57  | 70   | 75        | 49  | 56   |
| 13    | 136     | 95  | 121  | 86       | 70  | 73   | 59       | 42  | 51   | 59        | 51  | 55   |
| 14    | 138     | 96  | 114  | 88       | 72  | 76   | 59       | 18  | 36   | 75        | 55  | 60   |
| 15    | 138     | 98  | 124  | 94       | 74  | 78   | 47       | 33  | 36   | 68        | 55  | 61   |
| 16    | 151     | 96  | 129  | 93       | 77  | 81   | 77       | 21  | 44   | 74        | 58  | 66   |
| 17    | 144     | 72  | 108  | 93       | 79  | 83   | 55       | 45  | 47   | 75        | 65  | 67   |
| 18    | 126     | 76  | 101  | 104      | 82  | 88   | 55       | 36  | 50   | 91        | 67  | 70   |
| 19    | 119     | 74  | 104  | 97       | 85  | 88   | 66       | 45  | 52   | 99        | 66  | 74   |
| 20    | 116     | 73  | 99   | 98       | 84  | 86   | 65       | 54  | 56   | 74        | 66  | 71   |
| 21    | 116     | 75  | 98   | 84       | 83  | 83   | 71       | 53  | 58   | 90        | 74  | 76   |
| 22    | 123     | 77  | 107  | 85       | 83  | 84   | 70       | 57  | 61   | 80        | 77  | 78   |
| 23    | 125     | 81  | 113  | 88       | 87  | 88   | 63       | 59  | 61   | 107       | 77  | 82   |
| 24    | 130     | 87  | 115  | 89       | 87  | 88   | 72       | 55  | 62   | 95        | 75  | 80   |
| 25    | 133     | 88  | 120  | 89       | 88  | 88   | 75       | 52  | 64   | 81        | 70  | 75   |
| 26    | 139     | 96  | 130  | 89       | 88  | 88   | 160      | 64  | 71   | 116       | 72  | 84   |
| 27    | 138     | 80  | 117  | 89       | 88  | 89   | 72       | 53  | 68   | 74        | 65  | 70   |
| 28    | 79      | 61  | 68   | 93       | 85  | 87   | 71       | 65  | 67   | 79        | 57  | 67   |
| 29    | 68      | 45  | 55   | 101      | 69  | 81   | 71       | 63  | 68   | 85        | 62  | 69   |
| 30    | 52      | 42  | 46   | 91       | 69  | 75   | 71       | 61  | 65   | 71        | 67  | 70   |
| 31    | 42      | 36  | 38   | ---      | --- | ---  | 64       | 61  | 62   | 74        | 71  | 73   |
| MONTH | 151     | 36  | 94   | 104      | 37  | 74   | 160      | 18  | 66   | 116       | 49  | 68   |

## PASCAGOULA RIVER BASIN

024791834 RED CREEK NEAR CARNES, MS--Continued

SPECIFIC CONDUCTANCE, MICRO SIEMENS PER CENTIMETER AT 25 DEG. C, NOVEMBER 1984 TO APRIL 1986

| DAY   | MAX      | MIN | MEAN | MAX   | MIN | MEAN | MAX   | MIN | MEAN | MAX | MIN | MEAN |
|-------|----------|-----|------|-------|-----|------|-------|-----|------|-----|-----|------|
|       | FEBRUARY |     |      | MARCH |     |      | APRIL |     |      | MAY |     |      |
| 1     | 77       | 73  | 75   | 91    | 81  | 87   | 100   | 91  | 94   |     |     |      |
| 2     | 79       | 76  | 78   | 91    | 74  | 87   | 96    | 94  | 95   |     |     |      |
| 3     | 82       | 78  | 80   | 91    | 89  | 90   | 98    | 96  | 97   |     |     |      |
| 4     | 88       | 63  | 80   | 89    | 78  | 81   | 106   | 97  | 99   |     |     |      |
| 5     | 86       | 54  | 74   | 78    | 63  | 75   | 107   | 89  | 95   |     |     |      |
| 6     | 61       | 48  | 52   | 85    | 79  | 82   | 100   | 96  | 97   |     |     |      |
| 7     | 51       | 42  | 47   | 92    | 79  | 86   | 101   | 99  | 100  |     |     |      |
| 8     | 50       | 43  | 46   | 91    | 87  | 89   | 104   | 100 | 102  |     |     |      |
| 9     | 82       | 49  | 58   | 93    | 90  | 92   | 104   | 103 | 104  |     |     |      |
| 10    | 78       | 54  | 60   | 95    | 93  | 94   | 107   | 104 | 105  |     |     |      |
| 11    | 89       | 56  | 67   | 97    | 94  | 95   | ---   | --- | ---  |     |     |      |
| 12    | 108      | 53  | 66   | 98    | 63  | 88   | ---   | --- | ---  |     |     |      |
| 13    | 60       | 54  | 55   | 99    | 58  | 80   | ---   | --- | ---  |     |     |      |
| 14    | 60       | 55  | 57   | 62    | 51  | 54   | ---   | --- | ---  |     |     |      |
| 15    | 63       | 55  | 59   | 69    | 51  | 56   | ---   | --- | ---  |     |     |      |
| 16    | 61       | 56  | 60   | 85    | 61  | 72   | ---   | --- | ---  |     |     |      |
| 17    | 62       | 59  | 60   | 69    | 66  | 68   | ---   | --- | ---  |     |     |      |
| 18    | 64       | 60  | 62   | 106   | 69  | 74   | ---   | --- | ---  |     |     |      |
| 19    | 72       | 65  | 68   | 74    | 69  | 72   | ---   | --- | ---  |     |     |      |
| 20    | 71       | 68  | 70   | 77    | 63  | 69   | ---   | --- | ---  |     |     |      |
| 21    | 73       | 71  | 72   | 76    | 73  | 74   | ---   | --- | ---  |     |     |      |
| 22    | 75       | 72  | 74   | 101   | 67  | 74   | ---   | --- | ---  |     |     |      |
| 23    | 78       | 74  | 76   | 72    | 68  | 70   | ---   | --- | ---  |     |     |      |
| 24    | 84       | 77  | 79   | 79    | 71  | 74   | ---   | --- | ---  |     |     |      |
| 25    | 86       | 77  | 83   | 79    | 75  | 77   | ---   | --- | ---  |     |     |      |
| 26    | 85       | 82  | 83   | 82    | 72  | 79   | ---   | --- | ---  |     |     |      |
| 27    | 101      | 83  | 86   | 86    | 82  | 84   | ---   | --- | ---  |     |     |      |
| 28    | 93       | 81  | 87   | 89    | 86  | 87   | ---   | --- | ---  |     |     |      |
| 29    | ---      | --- | ---  | 97    | 80  | 87   | ---   | --- | ---  |     |     |      |
| 30    | ---      | --- | ---  | 86    | 81  | 82   | ---   | --- | ---  |     |     |      |
| 31    | ---      | --- | ---  | 91    | 85  | 88   | ---   | --- | ---  |     |     |      |
| MONTH | 108      | 42  | 68   | 106   | 51  | 80   | 107   | 89  | 99   |     |     |      |

TEMPERATURE, WATER (DEG. C), NOVEMBER 1984 TO APRIL 1986

| DAY   | MAX     | MIN | MEAN | MAX      | MIN  | MEAN | MAX      | MIN  | MEAN | MAX     | MIN  | MEAN |
|-------|---------|-----|------|----------|------|------|----------|------|------|---------|------|------|
|       | OCTOBER |     |      | NOVEMBER |      |      | DECEMBER |      |      | JANUARY |      |      |
| 1     |         |     |      | ---      | ---  | ---  | 12.0     | 11.0 | 11.5 | 18.5    | 17.5 | 18.5 |
| 2     |         |     |      | ---      | ---  | ---  | 13.0     | 11.5 | 12.5 | 17.5    | 14.0 | 16.0 |
| 3     |         |     |      | ---      | ---  | ---  | 14.0     | 13.0 | 13.5 | 14.0    | 10.5 | 12.0 |
| 4     |         |     |      | ---      | ---  | ---  | 13.5     | 9.0  | 11.5 | 10.5    | 8.0  | 9.0  |
| 5     |         |     |      | ---      | ---  | ---  | 9.0      | 8.5  | 8.5  | 8.0     | 7.0  | 7.5  |
| 6     |         |     |      | ---      | ---  | ---  | 8.5      | 8.0  | 8.5  | 8.0     | 7.0  | 7.5  |
| 7     |         |     |      | ---      | ---  | ---  | 8.0      | 6.5  | 7.0  | 8.5     | 7.5  | 8.0  |
| 8     |         |     |      | 15.0     | 14.5 | 14.5 | 7.0      | 6.5  | 6.5  | 8.5     | 7.5  | 8.5  |
| 9     |         |     |      | 15.5     | 14.5 | 15.0 | 8.5      | 7.0  | 7.5  | 8.5     | 7.5  | 8.0  |
| 10    |         |     |      | 16.5     | 15.5 | 16.0 | 11.0     | 9.0  | 10.0 | 9.5     | 8.0  | 9.0  |
| 11    |         |     |      | 16.0     | 14.5 | 15.5 | 12.0     | 11.0 | 11.5 | 10.0    | 9.5  | 9.5  |
| 12    |         |     |      | 14.5     | 12.5 | 13.5 | 13.0     | 12.0 | 12.5 | 9.5     | 8.0  | 8.5  |
| 13    |         |     |      | 12.5     | 11.5 | 12.0 | 15.0     | 13.0 | 14.0 | 8.0     | 7.0  | 7.5  |
| 14    |         |     |      | 11.5     | 10.5 | 11.0 | 16.0     | 14.5 | 15.5 | 7.5     | 7.0  | 7.5  |
| 15    |         |     |      | 13.0     | 11.5 | 12.0 | 16.5     | 15.5 | 16.0 | 7.5     | 7.0  | 7.0  |
| 16    |         |     |      | 14.0     | 13.0 | 13.5 | 16.5     | 16.0 | 16.0 | 10.0    | 7.0  | 7.5  |
| 17    |         |     |      | 14.5     | 13.5 | 14.0 | 16.5     | 16.0 | 16.5 | 10.5    | 9.5  | 10.0 |
| 18    |         |     |      | 15.5     | 14.0 | 15.0 | 16.5     | 16.0 | 16.0 | 9.5     | 8.0  | 8.5  |
| 19    |         |     |      | 16.5     | 15.5 | 16.0 | 16.0     | 15.5 | 16.0 | 8.5     | 8.0  | 8.0  |
| 20    |         |     |      | 16.0     | 13.5 | 15.0 | 16.5     | 16.0 | 16.0 | 8.5     | 6.5  | 7.5  |
| 21    |         |     |      | 13.5     | 12.0 | 12.5 | 17.0     | 16.0 | 16.5 | 6.0     | 3.5  | 4.5  |
| 22    |         |     |      | 12.0     | 10.5 | 11.0 | 17.0     | 16.5 | 17.0 | 3.5     | 2.5  | 3.0  |
| 23    |         |     |      | 10.5     | 9.5  | 10.0 | 16.5     | 15.5 | 16.0 | 4.0     | 3.0  | 3.5  |
| 24    |         |     |      | 9.5      | 8.5  | 9.0  | 16.5     | 15.5 | 16.0 | 5.5     | 4.0  | 5.0  |
| 25    |         |     |      | 10.5     | 9.0  | 9.5  | 16.0     | 15.5 | 16.0 | 6.5     | 5.5  | 6.0  |
| 26    |         |     |      | 12.5     | 10.5 | 11.5 | 15.5     | 14.5 | 15.0 | 7.0     | 6.0  | 6.5  |
| 27    |         |     |      | 15.0     | 12.5 | 14.0 | 15.0     | 14.5 | 15.0 | 7.0     | 5.5  | 6.0  |
| 28    |         |     |      | 15.0     | 12.0 | 13.5 | 16.0     | 15.0 | 15.5 | 8.0     | 7.0  | 7.5  |
| 29    |         |     |      | 12.0     | 10.5 | 11.0 | 17.0     | 16.0 | 16.5 | 8.0     | 7.0  | 7.0  |
| 30    |         |     |      | 11.5     | 10.5 | 11.0 | 18.0     | 17.0 | 17.5 | 9.5     | 7.5  | 8.0  |
| 31    |         |     |      | ---      | ---  | ---  | 18.5     | 18.0 | 18.0 | 12.5    | 9.5  | 11.0 |
| MONTH |         |     |      | 16.5     | 8.5  | 13.0 | 18.5     | 6.5  | 13.5 | 18.5    | 2.5  | 8.0  |

## PASCAGOULA RIVER BASIN

024791834 RED CREEK NEAR CARNES, MS--Continued

TEMPERATURE, WATER (DEG. C), NOVEMBER 1984 TO APRIL 1986

| DAY   | MAX      | MIN  | MEAN | MAX   | MIN  | MEAN | MAX    | MIN  | MEAN | MAX       | MIN  | MEAN |
|-------|----------|------|------|-------|------|------|--------|------|------|-----------|------|------|
|       | FEBRUARY |      |      | MARCH |      |      | APRIL  |      |      | MAY       |      |      |
| 1     | 12.5     | 10.5 | 12.0 | 15.0  | 13.5 | 14.5 | 19.0   | 17.0 | 18.0 | 22.5      | 21.5 | 22.0 |
| 2     | 10.0     | 6.5  | 8.5  | 14.0  | 14.0 | 14.0 | 17.0   | 16.0 | 16.5 | 23.0      | 21.5 | 22.0 |
| 3     | 6.0      | 4.5  | 5.5  | 16.0  | 14.5 | 15.5 | 16.5   | 15.0 | 16.0 | 22.0      | 20.0 | 21.0 |
| 4     | 6.0      | 4.5  | 5.0  | 17.5  | 16.0 | 17.0 | 18.0   | 15.5 | 16.5 | 20.0      | 19.0 | 19.5 |
| 5     | 9.5      | 6.0  | 7.5  | 18.0  | 17.5 | 18.0 | 18.5   | 17.0 | 17.5 | 20.0      | 19.0 | 19.5 |
| 6     | 9.5      | 9.0  | 9.5  | 18.0  | 15.5 | 16.5 | 18.0   | 17.0 | 17.5 | 20.5      | 19.5 | 20.0 |
| 7     | 9.5      | 8.0  | 9.0  | 16.0  | 14.0 | 15.0 | 18.0   | 16.5 | 17.5 | 21.0      | 19.5 | 20.5 |
| 8     | 9.0      | 7.5  | 8.5  | 17.0  | 15.5 | 15.5 | 17.5   | 16.5 | 17.0 | 21.5      | 20.0 | 21.0 |
| 9     | 7.5      | 7.0  | 7.0  | 19.0  | 17.0 | 17.5 | 16.5   | 15.0 | 16.0 | 21.5      | 20.5 | 21.0 |
| 10    | 7.0      | 6.0  | 7.0  | 19.5  | 18.5 | 19.0 | 15.5   | 14.5 | 15.0 | 21.0      | 20.0 | 20.5 |
| 11    | 8.5      | 6.5  | 7.5  | 20.0  | 19.0 | 19.5 | 16.0   | 14.5 | 15.0 | 21.5      | 20.0 | 21.0 |
| 12    | 10.0     | 8.5  | 9.5  | 20.0  | 19.0 | 19.5 | 16.5   | 16.0 | 16.0 | 22.0      | 20.5 | 21.5 |
| 13    | 8.5      | 7.0  | 7.5  | 19.5  | 18.5 | 19.0 | 17.5   | 16.0 | 17.0 | 22.0      | 21.0 | 21.5 |
| 14    | 7.0      | 6.5  | 6.5  | 20.0  | 18.5 | 19.5 | 18.0   | 17.0 | 17.5 | 22.0      | 21.0 | 21.5 |
| 15    | 7.5      | 6.5  | 7.0  | 20.0  | 18.5 | 19.0 | 18.5   | 17.0 | 18.0 | 22.0      | 21.0 | 21.5 |
| 16    | 8.0      | 6.5  | 7.5  | 18.5  | 16.5 | 17.5 | 19.0   | 17.5 | 18.5 | 21.5      | 20.0 | 20.5 |
| 17    | 7.5      | 6.5  | 7.0  | 16.5  | 15.5 | 16.0 | 19.0   | 17.5 | 18.0 | 21.0      | 20.0 | 20.5 |
| 18    | 8.5      | 7.0  | 8.0  | 16.0  | 14.5 | 15.5 | 19.0   | 17.5 | 18.5 | 20.5      | 19.5 | 20.0 |
| 19    | 11.0     | 8.5  | 10.0 | 15.0  | 13.5 | 14.5 | 19.5   | 18.0 | 18.5 | 20.5      | 19.0 | 20.0 |
| 20    | 12.5     | 11.0 | 12.0 | 15.0  | 14.0 | 14.5 | 19.5   | 18.5 | 19.0 | 20.5      | 19.5 | 20.0 |
| 21    | 13.5     | 12.0 | 13.0 | 16.5  | 14.5 | 15.0 | 20.0   | 18.5 | 19.5 | 20.5      | 20.0 | 20.5 |
| 22    | 14.5     | 12.5 | 14.0 | 16.5  | 16.0 | 16.0 | 20.0   | 19.0 | 19.5 | 21.0      | 19.5 | 20.5 |
| 23    | 15.0     | 14.0 | 14.5 | 16.0  | 15.0 | 15.5 | 20.5   | 19.5 | 20.0 | 21.0      | 20.0 | 20.5 |
| 24    | 16.0     | 15.0 | 15.5 | 17.0  | 15.5 | 16.5 | 21.0   | 20.0 | 20.5 | 21.5      | 20.0 | 20.5 |
| 25    | 16.5     | 15.5 | 16.0 | 17.5  | 16.0 | 17.0 | 21.5   | 20.5 | 21.0 | 20.5      | 19.0 | 20.0 |
| 26    | 15.5     | 15.0 | 15.5 | 18.0  | 16.0 | 17.0 | 21.0   | 20.5 | 21.0 | 20.5      | 19.0 | 20.0 |
| 27    | 15.5     | 15.0 | 15.5 | 17.5  | 17.0 | 17.0 | 21.0   | 20.5 | 20.5 | 20.5      | 19.5 | 20.0 |
| 28    | 15.5     | 15.0 | 15.5 | 19.0  | 17.0 | 18.0 | 22.0   | 21.0 | 21.5 | 21.0      | 20.0 | 20.5 |
| 29    | ---      | ---  | ---  | 21.0  | 19.0 | 20.0 | 22.5   | 21.0 | 22.0 | 22.0      | 20.5 | 21.0 |
| 30    | ---      | ---  | ---  | 21.5  | 20.5 | 21.0 | 22.0   | 21.0 | 22.0 | 22.5      | 21.5 | 22.0 |
| 31    | ---      | ---  | ---  | 21.0  | 19.0 | 20.5 | ---    | ---  | ---  | 24.0      | 22.5 | 23.0 |
| MONTH | 16.5     | 4.5  | 10.0 | 21.5  | 13.5 | 17.0 | 22.5   | 14.5 | 18.5 | 24.0      | 19.0 | 21.0 |
|       | JUNE     |      |      | JULY  |      |      | AUGUST |      |      | SEPTEMBER |      |      |
| 1     | 24.5     | 23.5 | 24.0 | 23.5  | 22.5 | 23.0 | 24.5   | 24.0 | 24.0 | 24.5      | 23.0 | 24.0 |
| 2     | 25.0     | 23.5 | 24.5 | 24.0  | 22.5 | 23.5 | 25.0   | 24.0 | 24.5 | 24.0      | 23.0 | 23.5 |
| 3     | 25.5     | 24.0 | 25.0 | 24.0  | 23.0 | 23.5 | 25.0   | 24.0 | 24.5 | 23.5      | 23.0 | 23.0 |
| 4     | 26.0     | 24.5 | 25.0 | 24.0  | 23.5 | 24.0 | 25.0   | 24.0 | 24.5 | 24.0      | 23.0 | 23.5 |
| 5     | 26.5     | 24.5 | 25.5 | 23.5  | 22.5 | 23.0 | 25.0   | 24.0 | 24.5 | 24.5      | 23.5 | 24.0 |
| 6     | 26.0     | 24.5 | 25.5 | 22.5  | 22.0 | 22.0 | 25.0   | 23.5 | 24.5 | 24.5      | 23.5 | 24.0 |
| 7     | 26.0     | 24.5 | 25.5 | 22.5  | 22.0 | 22.0 | 24.0   | 23.5 | 23.5 | 24.5      | 23.5 | 24.0 |
| 8     | 26.0     | 24.5 | 25.5 | 23.5  | 22.0 | 23.0 | 24.5   | 23.5 | 24.0 | 24.5      | 23.5 | 24.0 |
| 9     | 26.0     | 25.0 | 25.5 | 24.5  | 23.0 | 23.5 | 25.0   | 23.5 | 24.5 | 24.5      | 23.5 | 24.0 |
| 10    | 25.5     | 24.5 | 25.0 | 24.5  | 23.5 | 24.0 | 25.0   | 24.0 | 24.5 | 24.5      | 23.5 | 24.0 |
| 11    | ---      | ---  | ---  | 25.0  | 23.5 | 24.5 | 25.0   | 24.0 | 24.5 | 24.5      | 23.5 | 24.0 |
| 12    | ---      | ---  | ---  | 25.0  | 24.0 | 24.5 | 25.0   | 23.5 | 24.5 | 24.5      | 23.5 | 24.0 |
| 13    | ---      | ---  | ---  | 25.0  | 24.0 | 24.5 | 24.5   | 24.0 | 24.5 | 24.5      | 23.5 | 24.0 |
| 14    | ---      | ---  | ---  | 25.5  | 24.0 | 25.0 | 24.5   | 24.0 | 24.0 | 24.0      | 23.0 | 23.5 |
| 15    | ---      | ---  | ---  | 25.0  | 24.0 | 24.5 | 24.0   | 23.0 | 23.5 | 23.0      | 21.5 | 22.0 |
| 16    | ---      | ---  | ---  | 24.5  | 23.5 | 24.0 | 23.5   | 23.0 | 23.0 | 21.5      | 21.0 | 21.5 |
| 17    | ---      | ---  | ---  | 24.5  | 23.5 | 24.0 | 24.0   | 23.5 | 23.5 | 21.5      | 21.0 | 21.0 |
| 18    | 24.0     | 23.5 | 24.0 | 24.5  | 24.0 | 24.5 | 24.5   | 24.0 | 24.0 | 21.5      | 20.5 | 21.0 |
| 19    | 23.5     | 23.0 | 23.0 | 24.5  | 24.0 | 24.5 | 24.5   | 24.0 | 24.5 | 21.5      | 20.5 | 21.0 |
| 20    | 23.0     | 22.5 | 22.5 | 25.0  | 24.0 | 24.5 | 24.5   | 24.0 | 24.0 | 21.5      | 20.5 | 21.0 |
| 21    | 23.0     | 22.0 | 22.5 | 25.5  | 24.0 | 25.0 | 25.0   | 24.0 | 24.5 | 22.0      | 20.5 | 21.0 |
| 22    | 24.0     | 22.5 | 23.0 | 25.5  | 24.5 | 25.0 | 25.0   | 24.0 | 24.5 | 21.5      | 21.0 | 21.5 |
| 23    | 24.0     | 22.5 | 23.5 | 25.0  | 23.5 | 24.0 | 25.0   | 24.0 | 24.5 | 22.0      | 21.5 | 21.5 |
| 24    | 24.0     | 23.5 | 24.0 | 23.5  | 22.5 | 23.0 | 25.5   | 24.0 | 24.5 | 22.5      | 22.0 | 22.5 |
| 25    | 24.5     | 23.5 | 24.0 | 23.5  | 22.5 | 23.0 | 25.0   | 24.0 | 24.5 | 22.0      | 22.0 | 22.0 |
| 26    | 24.5     | 23.5 | 24.0 | 25.0  | 23.5 | 24.5 | 24.0   | 23.5 | 24.0 | 22.5      | 22.0 | 22.0 |
| 27    | 24.5     | 23.5 | 24.5 | 25.5  | 24.0 | 25.0 | 24.0   | 23.5 | 23.5 | 22.0      | 20.0 | 21.0 |
| 28    | 24.5     | 23.5 | 23.5 | 25.0  | 24.5 | 25.0 | 24.0   | 23.0 | 23.5 | 20.0      | 18.5 | 19.0 |
| 29    | 24.0     | 23.0 | 23.5 | 25.5  | 24.0 | 25.0 | 24.0   | 23.0 | 23.5 | 19.5      | 18.0 | 18.5 |
| 30    | 24.0     | 22.5 | 23.5 | 25.0  | 24.0 | 24.5 | 24.5   | 23.5 | 24.0 | 21.0      | 19.0 | 20.0 |
| 31    | ---      | ---  | ---  | 25.0  | 24.0 | 24.5 | 24.5   | 23.0 | 24.0 | ---       | ---  | ---  |
| MONTH | ---      | ---  | ---  | 25.5  | 22.0 | 24.0 | 25.5   | 23.0 | 24.0 | 24.5      | 18.0 | 22.5 |



## PASCAGOULA RIVER BASIN

024791834 RED CREEK NEAR CARNES, MS--Continued

TEMPERATURE, WATER (DEG. C), NOVEMBER 1984 TO APRIL 1986

| DAY      | MAX  | MIN  | MEAN | MAX      | MIN  | MEAN | MAX      | MIN  | MEAN | MAX     | MIN  | MEAN |
|----------|------|------|------|----------|------|------|----------|------|------|---------|------|------|
| OCTOBER  |      |      |      | NOVEMBER |      |      | DECEMBER |      |      | JANUARY |      |      |
| 1        | 21.0 | 19.0 | 20.0 | 19.5     | 18.5 | 19.0 | 19.0     | 18.5 | 19.0 | 11.0    | 10.0 | 10.5 |
| 2        | 19.0 | 17.5 | 18.0 | 18.0     | 17.0 | 17.5 | 18.5     | 15.0 | 16.5 | 10.5    | 9.5  | 10.0 |
| 3        | 18.5 | 17.5 | 18.0 | 17.0     | 16.0 | 16.5 | 15.0     | 12.0 | 13.0 | 10.5    | 9.5  | 10.0 |
| 4        | 20.0 | 18.5 | 19.0 | 16.0     | 14.5 | 15.0 | 12.5     | 10.5 | 11.0 | 11.0    | 10.5 | 10.5 |
| 5        | 20.0 | 19.0 | 19.5 | 14.0     | 13.5 | 14.0 | 11.5     | 11.0 | 11.0 | 11.0    | 9.5  | 10.5 |
| 6        | 19.0 | 17.5 | 18.0 | 14.0     | 12.5 | 13.5 | 11.0     | 10.5 | 11.0 | 9.5     | 8.0  | 8.5  |
| 7        | 17.0 | 16.0 | 16.5 | 14.5     | 13.5 | 14.0 | 10.5     | 9.5  | 10.0 | 9.0     | 8.5  | 8.5  |
| 8        | 16.5 | 15.5 | 16.0 | 14.5     | 14.0 | 14.0 | 11.0     | 10.0 | 10.5 | 8.5     | 8.0  | 8.5  |
| 9        | 17.5 | 16.0 | 17.0 | 14.5     | 13.5 | 14.0 | 12.0     | 10.5 | 11.0 | 8.0     | 8.0  | 8.0  |
| 10       | 18.5 | 17.0 | 18.0 | 16.0     | 14.0 | 15.0 | 13.5     | 12.0 | 12.5 | 8.0     | 8.0  | 8.0  |
| 11       | 19.0 | 18.0 | 18.5 | 17.0     | 15.5 | 16.5 | 16.0     | 13.5 | 14.5 | 8.0     | 7.0  | 7.0  |
| 12       | 20.0 | 18.5 | 19.5 | 18.0     | 17.0 | 17.5 | 17.0     | 16.0 | 16.5 | 7.0     | 6.5  | 7.0  |
| 13       | 21.0 | 19.5 | 20.0 | 19.0     | 18.0 | 18.5 | 16.0     | 13.0 | 15.0 | 7.5     | 7.0  | 7.0  |
| 14       | 21.5 | 20.5 | 21.0 | 19.5     | 19.0 | 19.0 | 13.0     | 9.0  | 11.0 | 7.5     | 6.5  | 7.0  |
| 15       | 22.0 | 21.0 | 21.5 | 20.0     | 19.5 | 19.5 | 9.0      | 7.0  | 7.5  | 8.0     | 7.0  | 7.5  |
| 16       | 22.0 | 21.5 | 21.5 | 20.5     | 20.0 | 20.0 | 7.0      | 6.5  | 6.5  | 8.5     | 7.5  | 8.0  |
| 17       | 22.0 | 21.0 | 21.5 | 21.0     | 20.0 | 20.5 | 7.5      | 6.5  | 7.0  | 10.0    | 8.5  | 9.5  |
| 18       | 22.5 | 21.5 | 22.0 | 21.0     | 20.5 | 20.5 | 8.0      | 7.5  | 8.0  | 12.0    | 10.0 | 11.0 |
| 19       | 22.5 | 22.0 | 22.5 | 21.0     | 20.5 | 21.0 | 8.0      | 7.5  | 8.0  | 12.5    | 11.5 | 12.0 |
| 20       | 22.5 | 22.0 | 22.0 | 20.5     | 19.5 | 20.5 | 7.5      | 7.0  | 7.5  | 11.5    | 10.5 | 11.0 |
| 21       | 22.5 | 22.0 | 22.5 | 19.5     | 18.5 | 19.0 | 7.0      | 6.5  | 7.0  | 11.5    | 10.5 | 11.0 |
| 22       | 22.5 | 22.0 | 22.5 | 18.0     | 17.5 | 17.5 | 7.0      | 6.0  | 6.5  | 12.5    | 11.0 | 12.0 |
| 23       | 22.5 | 22.0 | 22.5 | 17.0     | 16.5 | 16.5 | 9.0      | 7.0  | 8.0  | 12.5    | 11.0 | 11.5 |
| 24       | 22.5 | 22.0 | 22.0 | 17.0     | 16.0 | 16.5 | 9.5      | 8.5  | 9.0  | 11.0    | 9.5  | 10.0 |
| 25       | 22.0 | 21.5 | 21.5 | 18.0     | 17.0 | 17.5 | 9.0      | 7.0  | 8.0  | 10.5    | 10.0 | 10.0 |
| 26       | 21.5 | 21.0 | 21.5 | 19.0     | 18.0 | 18.5 | 7.0      | 5.5  | 6.0  | 10.5    | 9.5  | 10.0 |
| 27       | 21.0 | 19.5 | 20.5 | 20.0     | 19.0 | 19.5 | 6.5      | 5.5  | 6.0  | 9.5     | 7.0  | 8.5  |
| 28       | 20.5 | 19.5 | 20.0 | 20.5     | 20.0 | 20.5 | 8.5      | 6.5  | 7.5  | 7.0     | 6.0  | 6.5  |
| 29       | 21.0 | 20.5 | 21.0 | 20.0     | 19.5 | 20.0 | 8.5      | 8.0  | 8.5  | 8.0     | 6.5  | 7.0  |
| 30       | 21.0 | 20.0 | 20.5 | 19.5     | 19.0 | 19.0 | 8.5      | 7.5  | 8.0  | 10.0    | 8.0  | 9.0  |
| 31       | 20.0 | 19.5 | 20.0 | ---      | ---  | ---  | 10.0     | 8.5  | 9.5  | 11.0    | 9.5  | 10.0 |
| MONTH    | 22.5 | 15.5 | 20.0 | 21.0     | 12.5 | 17.5 | 19.0     | 5.5  | 10.0 | 12.5    | 6.0  | 9.0  |
| FEBRUARY |      |      |      | MARCH    |      |      | APRIL    |      |      | MAY     |      |      |
| 1        | 12.0 | 10.5 | 11.0 | 12.0     | 10.5 | 11.0 | 18.0     | 16.5 | 17.5 |         |      |      |
| 2        | 13.5 | 12.0 | 12.5 | 11.0     | 9.0  | 10.0 | 19.0     | 17.0 | 18.0 |         |      |      |
| 3        | 15.0 | 13.5 | 14.0 | 12.5     | 10.5 | 11.5 | 19.5     | 17.5 | 18.5 |         |      |      |
| 4        | 16.0 | 15.0 | 15.5 | 14.5     | 12.5 | 13.5 | 20.5     | 18.5 | 19.5 |         |      |      |
| 5        | 16.5 | 15.5 | 16.0 | 14.0     | 12.5 | 13.0 | 20.5     | 19.5 | 20.0 |         |      |      |
| 6        | 17.0 | 16.5 | 17.0 | 14.0     | 12.5 | 13.5 | 21.5     | 20.0 | 20.5 |         |      |      |
| 7        | 16.5 | 14.5 | 15.5 | 13.5     | 12.0 | 13.0 | 21.5     | 20.0 | 21.0 |         |      |      |
| 8        | 15.0 | 14.5 | 15.0 | 14.0     | 12.5 | 13.5 | 22.0     | 20.5 | 21.5 |         |      |      |
| 9        | 15.5 | 15.0 | 15.0 | 15.0     | 13.0 | 14.0 | 22.0     | 20.5 | 21.0 |         |      |      |
| 10       | 15.0 | 13.5 | 14.5 | 17.0     | 15.0 | 16.0 | 20.0     | 18.5 | 19.0 |         |      |      |
| 11       | 13.5 | 9.0  | 11.0 | 18.0     | 17.0 | 17.5 | ---      | ---  | ---  |         |      |      |
| 12       | 8.5  | 7.5  | 8.0  | 18.5     | 17.5 | 18.0 | ---      | ---  | ---  |         |      |      |
| 13       | 7.5  | 6.5  | 7.0  | 17.5     | 17.0 | 17.0 | ---      | ---  | ---  |         |      |      |
| 14       | 9.0  | 7.0  | 8.0  | 17.5     | 16.5 | 17.0 | ---      | ---  | ---  |         |      |      |
| 15       | 10.0 | 9.0  | 9.5  | 17.5     | 17.0 | 17.5 | ---      | ---  | ---  |         |      |      |
| 16       | 11.0 | 9.5  | 10.0 | 18.5     | 17.0 | 18.0 | ---      | ---  | ---  |         |      |      |
| 17       | 13.5 | 11.0 | 12.5 | 18.5     | 17.0 | 18.0 | ---      | ---  | ---  |         |      |      |
| 18       | 16.0 | 14.0 | 15.0 | 18.5     | 17.0 | 18.0 | ---      | ---  | ---  |         |      |      |
| 19       | 17.0 | 16.0 | 16.5 | 18.5     | 17.5 | 18.5 | ---      | ---  | ---  |         |      |      |
| 20       | 17.5 | 16.5 | 17.0 | 17.5     | 15.5 | 16.0 | ---      | ---  | ---  |         |      |      |
| 21       | 17.5 | 17.0 | 17.0 | 15.5     | 13.0 | 14.5 | ---      | ---  | ---  |         |      |      |
| 22       | 17.0 | 16.0 | 17.0 | 13.0     | 11.5 | 12.5 | ---      | ---  | ---  |         |      |      |
| 23       | 16.0 | 14.0 | 15.0 | 13.0     | 11.0 | 12.0 | ---      | ---  | ---  |         |      |      |
| 24       | 14.0 | 12.5 | 13.5 | 14.0     | 11.5 | 12.5 | ---      | ---  | ---  |         |      |      |
| 25       | 13.5 | 12.5 | 13.0 | 15.0     | 12.5 | 14.0 | ---      | ---  | ---  |         |      |      |
| 26       | 14.0 | 12.0 | 13.0 | 16.0     | 14.0 | 15.0 | ---      | ---  | ---  |         |      |      |
| 27       | 15.0 | 14.0 | 14.5 | 17.0     | 15.0 | 16.5 | ---      | ---  | ---  |         |      |      |
| 28       | 14.5 | 12.5 | 13.5 | 18.0     | 16.0 | 17.0 | ---      | ---  | ---  |         |      |      |
| 29       | ---  | ---  | ---  | 17.5     | 16.0 | 17.0 | ---      | ---  | ---  |         |      |      |
| 30       | ---  | ---  | ---  | 17.5     | 16.0 | 17.0 | ---      | ---  | ---  |         |      |      |
| 31       | ---  | ---  | ---  | 18.0     | 16.0 | 17.0 | ---      | ---  | ---  |         |      |      |
| MONTH    | 17.5 | 6.5  | 13.5 | 18.5     | 9.0  | 15.0 | 22.0     | 16.5 | 19.5 |         |      |      |

## PASCAGOULA RIVER BASIN

109

02479300 RED CREEK AT VESTRY, MS

LOCATION.--Lat 30°44'10", long 88°46'50", in SW1SW4 sec.34, T.3 S., R.8 W., St. Stephens Meridian, George County, Hydrologic Unit 03170007, near center of channel on downstream side 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.

GAGE.--Water-stage recorder. Datum of gage is 20.10 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Oct. 1-4, May 2 to June 6 and Sept. 3-30. Records good, except those for estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--27 years, 860 ft<sup>3</sup>/s, 26.48 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,800 ft<sup>3</sup>/s, Apr. 8, 1983, gage height, 21.18 ft, from flood-mark; minimum discharge, 88 ft<sup>3</sup>/s, Oct. 22, 1963, gage height, 3.22 ft.

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. 7 | 1430 | *3,790                            | *14.12              |      |      |                                   |                     |

Minimum discharge, 115 ft<sup>3</sup>/s, July 5, minimum gage height, 4.24 ft, Sept. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|-------|
| 1     | 190   | 364   | 544   | 535   | 1140  | 2830  | 625   | 314  | 142  | 141  | 210   | 359   |
| 2     | 200   | 405   | 466   | 698   | 1040  | 3060  | 554   | 363  | 136  | 140  | 199   | 465   |
| 3     | 202   | 644   | 473   | 736   | 934   | 3090  | 495   | 390  | 130  | 127  | 252   | 1720  |
| 4     | 194   | 868   | 792   | 886   | 835   | 2440  | 453   | 350  | 128  | 119  | 252   | 1950  |
| 5     | 206   | 745   | 1990  | 718   | 827   | 1650  | 423   | 310  | 125  | 124  | 226   | 1400  |
| 6     | 207   | 573   | 3060  | 554   | 2050  | 1160  | 407   | 280  | 120  | 625  | 205   | 1000  |
| 7     | 209   | 415   | 3710  | 469   | 3160  | 944   | 403   | 300  | 120  | 849  | 391   | 800   |
| 8     | 208   | 345   | 3170  | 421   | 2930  | 812   | 389   | 330  | 122  | 702  | 905   | 600   |
| 9     | 210   | 310   | 1660  | 382   | 1500  | 725   | 362   | 340  | 121  | 398  | 1230  | 520   |
| 10    | 222   | 291   | 996   | 356   | 969   | 668   | 337   | 350  | 120  | 295  | 714   | 430   |
| 11    | 256   | 358   | 794   | 338   | 1050  | 616   | 321   | 320  | 127  | 258  | 440   | 370   |
| 12    | 285   | 409   | 696   | 323   | 1490  | 568   | 312   | 290  | 156  | 241  | 343   | 340   |
| 13    | 270   | 346   | 631   | 310   | 1360  | 535   | 310   | 250  | 178  | 203  | 479   | 310   |
| 14    | 249   | 303   | 636   | 303   | 1010  | 511   | 320   | 232  | 166  | 182  | 364   | 280   |
| 15    | 277   | 281   | 613   | 297   | 792   | 553   | 436   | 240  | 151  | 168  | 436   | 260   |
| 16    | 435   | 270   | 557   | 294   | 683   | 555   | 477   | 242  | 166  | 181  | 1310  | 250   |
| 17    | 412   | 260   | 516   | 1250  | 617   | 603   | 397   | 222  | 174  | 209  | 2440  | 240   |
| 18    | 544   | 254   | 487   | 2530  | 574   | 605   | 333   | 204  | 159  | 205  | 3180  | 230   |
| 19    | 560   | 257   | 467   | 2660  | 545   | 530   | 297   | 190  | 143  | 198  | 2870  | 220   |
| 20    | 518   | 286   | 457   | 1620  | 521   | 486   | 277   | 180  | 133  | 197  | 1760  | 210   |
| 21    | 434   | 347   | 451   | 958   | 498   | 1900  | 264   | 175  | 131  | 204  | 960   | 205   |
| 22    | 454   | 324   | 443   | 665   | 473   | 3100  | 254   | 190  | 143  | 214  | 639   | 200   |
| 23    | 1310  | 285   | 441   | 563   | 455   | 3360  | 248   | 210  | 153  | 345  | 508   | 1500  |
| 24    | 2030  | 264   | 435   | 540   | 519   | 2100  | 244   | 220  | 140  | 336  | 434   | 3200  |
| 25    | 2210  | 252   | 418   | 626   | 1470  | 1160  | 278   | 220  | 129  | 684  | 401   | 2400  |
| 26    | 1100  | 249   | 403   | 644   | 2820  | 803   | 320   | 210  | 123  | 812  | 382   | 1700  |
| 27    | 585   | 256   | 391   | 572   | 3250  | 671   | 335   | 190  | 137  | 503  | 363   | 1200  |
| 28    | 472   | 607   | 384   | 1090  | 2900  | 712   | 485   | 175  | 132  | 444  | 382   | 900   |
| 29    | 525   | 1080  | 380   | 1650  | ---   | 906   | 513   | 164  | 143  | 362  | 372   | 800   |
| 30    | 491   | 758   | 389   | 1400  | ---   | 836   | 367   | 154  | 143  | 281  | 342   | 700   |
| 31    | 400   | ---   | 481   | 1340  | ---   | 711   | ---   | 148  | ---  | 236  | 375   | ---   |
| TOTAL | 15865 | 12406 | 27331 | 25728 | 36412 | 39200 | 11236 | 7753 | 4191 | 9983 | 23364 | 24759 |
| MEAN  | 512   | 414   | 882   | 830   | 1300  | 1265  | 375   | 250  | 140  | 322  | 754   | 825   |
| MAX   | 2210  | 1080  | 3710  | 2660  | 3250  | 3360  | 625   | 390  | 178  | 849  | 3180  | 3200  |
| MIN   | 190   | 249   | 380   | 294   | 455   | 486   | 244   | 148  | 120  | 119  | 199   | 200   |
| CFSM  | 1.16  | .94   | 2.00  | 1.88  | 2.95  | 2.87  | .85   | .57  | .32  | .73  | 1.71  | 1.87  |
| IN.   | 1.34  | 1.05  | 2.31  | 2.17  | 3.07  | 3.31  | .95   | .65  | .35  | .84  | 1.97  | 2.09  |

|             |       |        |          |          |         |           |          |
|-------------|-------|--------|----------|----------|---------|-----------|----------|
| CAL YR 1984 | TOTAL | 268448 | MEAN 733 | MAX 4100 | MIN 178 | CFSM 1.66 | IN 22.64 |
| WTR YR 1985 | TOTAL | 238228 | MEAN 653 | MAX 3710 | MIN 119 | CFSM 1.48 | IN 20.10 |

## PASCAGOULA RIVER BASIN

02479560 ESCATAWPA RIVER NEAR AGRICOLA, MS

LOCATION.--Lat 30°48'32", long 88°27'41", in SW¼ sec. 2, T.3 S., R.5 W., George County, 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, 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.--August 1973 to current year.

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

GAGE.--Water-stage recorder. Elevation of gage is 50 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Water-discharge records good.

AVERAGE DISCHARGE.--12 years, 1,273 ft<sup>3</sup>/s, 30.76 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33,700 ft<sup>3</sup>/s, Apr. 9, 1983, gage height, 22.39 ft; minimum, 100 ft<sup>3</sup>/s, June 8, 1985.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 1929 reached an elevation of 72.0 ft + 1.0 ft, National Geodetic Vertical datum of 1929, as determined from historical data. Peak discharge of this flood is unknown but in all probability has not been exceeded since 1929.

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 | (ft <sup>3</sup> /s) | (ft) |
|----------|------|-----------------------------------|---------------------|--------------------------------------------|------|----------------------|------|
| Sept. 25 | 0600 | *12,800                           | *18.25              | No other peak greater than base discharge. |      |                      |      |

Minimum discharge, 100 ft<sup>3</sup>/s, June 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY               | OCT    | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN  | JUL   | AUG   | SEP   |       |
|-------------------|--------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|
| 1                 | 141    | 515   | 696   | 366   | 1540  | 2730  | 560   | 830   | 129  | 153   | 487   | 325   |       |
| 2                 | 141    | 438   | 559   | 655   | 2170  | 3660  | 528   | 1460  | 126  | 168   | 417   | 350   |       |
| 3                 | 141    | 587   | 488   | 931   | 2290  | 3980  | 500   | 1700  | 122  | 213   | 323   | 1720  |       |
| 4                 | 141    | 726   | 556   | 981   | 1790  | 3360  | 465   | 1260  | 117  | 168   | 258   | 2970  |       |
| 5                 | 141    | 645   | 2070  | 878   | 1720  | 2570  | 437   | 938   | 112  | 181   | 236   | 2590  |       |
| 6                 | 142    | 493   | 3170  | 763   | 3790  | 2130  | 487   | 761   | 109  | 2700  | 240   | 1860  |       |
| 7                 | 142    | 384   | 2770  | 684   | 4160  | 1740  | 567   | 607   | 106  | 4820  | 359   | 1170  |       |
| 8                 | 141    | 341   | 1890  | 616   | 3360  | 1410  | 527   | 577   | 108  | 2870  | 779   | 805   |       |
| 9                 | 143    | 315   | 1490  | 555   | 2570  | 1170  | 447   | 481   | 159  | 1180  | 693   | 693   |       |
| 10                | 161    | 292   | 1440  | 506   | 2100  | 987   | 398   | 421   | 167  | 700   | 642   | 637   |       |
| 11                | 219    | 284   | 1300  | 463   | 2050  | 849   | 379   | 366   | 325  | 493   | 516   | 609   |       |
| 12                | 233    | 292   | 1060  | 405   | 2220  | 744   | 367   | 298   | 451  | 398   | 471   | 496   |       |
| 13                | 199    | 282   | 853   | 354   | 1790  | 680   | 365   | 261   | 537  | 318   | 408   | 377   |       |
| 14                | 173    | 271   | 704   | 329   | 1410  | 630   | 367   | 236   | 378  | 291   | 486   | 316   |       |
| 15                | 205    | 258   | 593   | 313   | 1180  | 604   | 409   | 215   | 281  | 285   | 543   | 279   |       |
| 16                | 310    | 240   | 501   | 307   | 1030  | 579   | 684   | 201   | 364  | 334   | 1150  | 252   |       |
| 17                | 352    | 231   | 438   | 2240  | 928   | 611   | 766   | 185   | 587  | 789   | 2270  | 232   |       |
| 18                | 342    | 225   | 407   | 3030  | 847   | 593   | 662   | 171   | 394  | 1490  | 2030  | 214   |       |
| 19                | 280    | 228   | 376   | 2060  | 782   | 551   | 559   | 165   | 279  | 1330  | 1200  | 200   |       |
| 20                | 237    | 234   | 359   | 1440  | 719   | 525   | 451   | 160   | 244  | 948   | 831   | 187   |       |
| 21                | 234    | 230   | 347   | 1130  | 655   | 1610  | 365   | 158   | 223  | 1070  | 574   | 176   |       |
| 22                | 256    | 219   | 339   | 963   | 609   | 1880  | 314   | 191   | 203  | 670   | 436   | 179   |       |
| 23                | 500    | 213   | 343   | 894   | 574   | 1470  | 283   | 246   | 181  | 1130  | 355   | 3170  |       |
| 24                | 681    | 209   | 329   | 865   | 583   | 1170  | 277   | 222   | 177  | 1350  | 306   | 9720  |       |
| 25                | 625    | 205   | 314   | 910   | 1100  | 990   | 642   | 187   | 249  | 1020  | 438   | 11900 |       |
| 26                | 489    | 205   | 303   | 816   | 2210  | 874   | 1240  | 166   | 368  | 1420  | 1210  | 8540  |       |
| 27                | 434    | 228   | 294   | 680   | 2710  | 800   | 983   | 153   | 293  | 1300  | 1150  | 5140  |       |
| 28                | 738    | 538   | 289   | 1230  | 2640  | 883   | 803   | 146   | 238  | 1110  | 750   | 2580  |       |
| 29                | 1250   | 881   | 285   | 1660  | ---   | 849   | 740   | 141   | 203  | 867   | 505   | 1630  |       |
| 30                | 958    | 857   | 286   | 1600  | ---   | 711   | 754   | 136   | 178  | 585   | 399   | 1180  |       |
| 31                | 706    | ---   | 291   | 1720  | ---   | 600   | ---   | 133   | ---  | 427   | 371   | ---   |       |
| TOTAL             | 10855  | 11066 | 25140 | 30344 | 49527 | 41940 | 16326 | 13172 | 7408 | 30778 | 20833 | 60497 |       |
| MEAN              | 350    | 369   | 811   | 979   | 1769  | 1353  | 544   | 425   | 247  | 993   | 672   | 2017  |       |
| MAX               | 1250   | 881   | 3170  | 3030  | 4160  | 3980  | 1240  | 1700  | 587  | 4820  | 2270  | 11900 |       |
| MIN               | 141    | 205   | 285   | 307   | 574   | 525   | 277   | 133   | 106  | 153   | 236   | 176   |       |
| CFSM              | .62    | .66   | 1.44  | 1.74  | 3.15  | 2.41  | .97   | .76   | .44  | 1.77  | 1.20  | 3.59  |       |
| IN.               | .72    | .73   | 1.66  | 2.01  | 3.28  | 2.78  | 1.08  | .87   | .49  | 2.04  | 1.38  | 4.00  |       |
| CAL YR 1984 TOTAL | 374214 |       | MEAN  |       | 1022  | MAX   | 7370  | MIN   | 141  | CFSM  | 1.82  | IN.   | 24.77 |
| WTR YR 1985 TOTAL | 317886 |       | MEAN  |       | 871   | MAX   | 11900 | MIN   | 106  | CFSM  | 1.55  | IN.   | 21.04 |

## BILOXI RIVER BASIN

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02481000 BILOXI RIVER AT WORTHAM, MS

LOCATION.--Lat 30°33'30", long 89°07'20", in SE¼SE¼ 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.--96.1 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1952 to current year.

REVISED RECORDS.--WRD Miss. 1972: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 19.18 ft Mississippi State Highway Department datum. Prior to Oct. 1, 1977, at datum 2.00 ft higher.

REMARKS.--Estimated daily discharges: Apr. 3-23, June 3-10, 19-20, 27-28 and July 2-4. Records good except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--33 years, 192 ft<sup>3</sup>/s, 27.13 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,300 ft<sup>3</sup>/s, Apr. 8, 1983, gage height, 25.30 ft present datum; minimum, 1.1 ft<sup>3</sup>/s, Oct. 21, 1963.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1948 reached a stage of 25.3 ft present datum, from information by Mississippi State Highway Department. 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) |
|---------|------|-----------------------------------|---------------------|----------|------|-----------------------------------|---------------------|
| Mar. 21 | 0715 | 2,400                             | 10.77               | Sept. 23 | 2015 | *8,500                            | *22.55              |

Minimum discharge, 3.1 ft<sup>3</sup>/s, June 10, gage height, 1.75 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY         | OCT    | NOV     | DEC      | JAN      | FEB     | MAR       | APR      | MAY   | JUN   | JUL    | AUG  | SEP   |
|-------------|--------|---------|----------|----------|---------|-----------|----------|-------|-------|--------|------|-------|
| 1           | 6.4    | 29      | 105      | 271      | 269     | 1020      | 110      | 19    | 5.4   | 4.7    | 37   | 34    |
| 2           | 6.2    | 71      | 99       | 160      | 225     | 1260      | 86       | 44    | 5.2   | 3.5    | 39   | 407   |
| 3           | 6.5    | 114     | 126      | 188      | 188     | 627       | 59       | 25    | 4.9   | 3.3    | 121  | 1230  |
| 4           | 8.1    | 106     | 302      | 219      | 163     | 345       | 49       | 21    | 4.4   | 3.1    | 70   | 925   |
| 5           | 8.2    | 54      | 1280     | 145      | 269     | 273       | 42       | 18    | 4.2   | 16     | 33   | 332   |
| 6           | 7.6    | 37      | 931      | 95       | 1540    | 223       | 36       | 16    | 4.0   | 87     | 30   | 242   |
| 7           | 7.1    | 29      | 416      | 72       | 1030    | 181       | 65       | 15    | 3.8   | 109    | 56   | 379   |
| 8           | 7.4    | 24      | 200      | 58       | 466     | 160       | 42       | 12    | 3.5   | 214    | 167  | 222   |
| 9           | 7.5    | 20      | 155      | 48       | 270     | 147       | 32       | 15    | 3.3   | 94     | 205  | 634   |
| 10          | 7.1    | 20      | 128      | 43       | 219     | 133       | 26       | 14    | 3.1   | 43     | 117  | 415   |
| 11          | 8.5    | 25      | 103      | 38       | 494     | 114       | 23       | 12    | 4.5   | 28     | 54   | 185   |
| 12          | 8.2    | 49      | 83       | 34       | 536     | 100       | 20       | 11    | 4.8   | 34     | 40   | 115   |
| 13          | 10     | 37      | 74       | 31       | 291     | 95        | 18       | 9.4   | 5.5   | 62     | 29   | 72    |
| 14          | 9.6    | 30      | 88       | 34       | 208     | 90        | 16       | 9.3   | 7.1   | 30     | 36   | 51    |
| 15          | 12     | 26      | 72       | 30       | 180     | 130       | 60       | 9.7   | 7.6   | 32     | 535  | 38    |
| 16          | 12     | 23      | 55       | 29       | 160     | 146       | 62       | 10    | 9.5   | 50     | 1250 | 30    |
| 17          | 56     | 22      | 46       | 932      | 139     | 197       | 49       | 11    | 8.2   | 48     | 943  | 26    |
| 18          | 95     | 20      | 43       | 837      | 128     | 142       | 39       | 13    | 5.8   | 38     | 412  | 22    |
| 19          | 51     | 20      | 38       | 402      | 120     | 93        | 34       | 10    | 4.2   | 26     | 236  | 19    |
| 20          | 39     | 20      | 33       | 207      | 112     | 150       | 30       | 8.3   | 3.8   | 24     | 195  | 18    |
| 21          | 40     | 23      | 33       | 152      | 96      | 1860      | 26       | 7.7   | 5.3   | 35     | 105  | 16    |
| 22          | 61     | 24      | 32       | 120      | 86      | 978       | 23       | 8.7   | 6.3   | 74     | 63   | 14    |
| 23          | 155    | 22      | 33       | 108      | 78      | 401       | 20       | 10    | 6.3   | 249    | 43   | 4960  |
| 24          | 76     | 20      | 37       | 123      | 117     | 232       | 20       | 16    | 5.1   | 585    | 34   | 5830  |
| 25          | 40     | 20      | 32       | 185      | 1160    | 181       | 59       | 15    | 4.3   | 532    | 52   | 2040  |
| 26          | 27     | 19      | 28       | 150      | 1200    | 144       | 42       | 11    | 4.3   | 291    | 39   | 608   |
| 27          | 23     | 20      | 28       | 145      | 1180    | 129       | 29       | 8.7   | 4.2   | 125    | 93   | 378   |
| 28          | 27     | 243     | 25       | 865      | 846     | 246       | 26       | 7.9   | 4.0   | 81     | 103  | 267   |
| 29          | 137    | 218     | 24       | 551      | ---     | 194       | 24       | 6.6   | 3.8   | 73     | 61   | 198   |
| 30          | 75     | 101     | 156      | 382      | ---     | 137       | 20       | 6.1   | 3.5   | 47     | 71   | 202   |
| 31          | 39     | ---     | 272      | 365      | ---     | 118       | ---      | 5.9   | ---   | 52     | 53   | ---   |
| TOTAL       | 1073.4 | 1486    | 5077     | 7019     | 11770   | 10246     | 1187     | 406.3 | 149.9 | 3093.6 | 5322 | 19909 |
| MEAN        | 34.6   | 49.5    | 164      | 226      | 420     | 331       | 39.6     | 13.1  | 5.00  | 99.8   | 172  | 664   |
| MAX         | 155    | 243     | 1280     | 932      | 1540    | 1860      | 110      | 44    | 9.5   | 585    | 1250 | 5830  |
| MIN         | 6.2    | 19      | 24       | 29       | 78      | 90        | 16       | 5.9   | 3.1   | 3.1    | 29   | 14    |
| CFSM        | .36    | .52     | 1.71     | 2.35     | 4.37    | 3.44      | .41      | .14   | .05   | 1.04   | 1.79 | 6.91  |
| IN.         | .42    | .58     | 1.97     | 2.72     | 4.56    | 3.97      | .46      | .16   | .06   | 1.20   | 2.06 | 7.71  |
| CAL YR 1984 | TOTAL  | 51250.9 | MEAN 140 | MAX 1600 | MIN 6.2 | CFSM 1.46 | IN 19.84 |       |       |        |      |       |
| WTR YR 1985 | TOTAL  | 66739.2 | MEAN 183 | MAX 5830 | MIN 3.1 | CFSM 1.90 | IN 25.83 |       |       |        |      |       |



## WOLF RIVER BASIN

02481510 WOLF RIVER NEAR LANDON, MS  
(National stream-quality accounting network station)

LOCATION.--Lat 30°29'00", long 89°16'28", in NE¼ 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 Landon.

DRAINAGE AREA.--308 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1971 to current year. Occasional discharge measurements, water years 1964-66.

GAGE.--Water-stage recorder. Datum of gage is 19.34 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 18, 1978, at datum 2.00 ft higher.

REMARKS.--Estimated daily discharges, Oct. 1-10, Apr. 20-23, May 27 to June 12, June 16-21, June 23 to July 5, July 13-15, and Sept. 16-22. Records fair.

AVERAGE DISCHARGE.-- 14 years, 663 ft<sup>3</sup>/s, 29.23 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge about 18,400 ft<sup>3</sup>/s, Apr. 8 1983, gage height, 21.53 ft; minimum daily 37 ft<sup>3</sup>/s, June 9, 1985.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 27, 1964, reached a stage of 21.06 ft. The flood of 1920 reached a stage about 5 ft higher than that of April 1964, from information by local resident.

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

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date     | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|---------|------|-----------------------------------|---------------------|----------|------|-----------------------------------|---------------------|
| Feb. 6  | 1300 | 4,610                             | 9.11                | Sept. 23 | 1300 | *15,500                           | *19.37              |
| Aug. 15 | 2200 | 7,710                             | 12.61               |          |      |                                   |                     |

Minimum daily discharge, 37 ft<sup>3</sup>/s, June 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY         | OCT   | NOV    | DEC   | JAN   | FEB   | MAR   | APR  | MAY  | JUN  | JUL  | AUG   | SEP   |
|-------------|-------|--------|-------|-------|-------|-------|------|------|------|------|-------|-------|
| 1           | 55    | 128    | 343   | 234   | 789   | 2340  | 340  | 129  | 48   | 61   | 162   | 232   |
| 2           | 52    | 172    | 295   | 246   | 790   | 2810  | 291  | 127  | 46   | 64   | 146   | 646   |
| 3           | 71    | 980    | 493   | 470   | 761   | 1850  | 255  | 128  | 45   | 65   | 222   | 1390  |
| 4           | 65    | 853    | 762   | 627   | 621   | 1290  | 228  | 114  | 44   | 80   | 197   | 1130  |
| 5           | 58    | 578    | 3230  | 420   | 837   | 949   | 213  | 103  | 42   | 106  | 137   | 746   |
| 6           | 53    | 342    | 3320  | 301   | 4000  | 759   | 207  | 94   | 40   | 186  | 256   | 525   |
| 7           | 49    | 222    | 1820  | 244   | 2280  | 607   | 208  | 89   | 39   | 1130 | 294   | 428   |
| 8           | 46    | 171    | 1020  | 211   | 1190  | 508   | 191  | 96   | 38   | 519  | 1160  | 383   |
| 9           | 45    | 143    | 658   | 187   | 759   | 452   | 171  | 182  | 37   | 263  | 1040  | 577   |
| 10          | 72    | 130    | 491   | 170   | 586   | 408   | 159  | 203  | 38   | 152  | 454   | 433   |
| 11          | 145   | 214    | 409   | 157   | 1020  | 368   | 150  | 140  | 50   | 117  | 226   | 315   |
| 12          | 129   | 230    | 349   | 148   | 1380  | 337   | 146  | 109  | 65   | 112  | 225   | 244   |
| 13          | 105   | 167    | 311   | 139   | 884   | 317   | 151  | 93   | 90   | 100  | 494   | 204   |
| 14          | 87    | 140    | 282   | 133   | 614   | 311   | 173  | 86   | 101  | 93   | 390   | 188   |
| 15          | 88    | 123    | 259   | 130   | 492   | 327   | 186  | 119  | 84   | 150  | 3200  | 177   |
| 16          | 99    | 111    | 241   | 130   | 421   | 336   | 180  | 152  | 74   | 187  | 7290  | 165   |
| 17          | 161   | 104    | 222   | 1580  | 380   | 425   | 160  | 105  | 60   | 191  | 3450  | 152   |
| 18          | 302   | 102    | 205   | 2220  | 349   | 390   | 144  | 93   | 55   | 127  | 1970  | 141   |
| 19          | 292   | 110    | 194   | 1320  | 324   | 310   | 134  | 91   | 50   | 114  | 1430  | 131   |
| 20          | 241   | 171    | 189   | 769   | 303   | 339   | 124  | 90   | 60   | 113  | 911   | 122   |
| 21          | 190   | 193    | 185   | 511   | 284   | 3140  | 115  | 88   | 80   | 170  | 526   | 116   |
| 22          | 319   | 154    | 181   | 379   | 263   | 2230  | 108  | 88   | 84   | 203  | 370   | 112   |
| 23          | 1020  | 125    | 182   | 338   | 251   | 1230  | 102  | 90   | 74   | 524  | 291   | 9010  |
| 24          | 1620  | 109    | 181   | 349   | 317   | 783   | 118  | 98   | 66   | 792  | 257   | 5150  |
| 25          | 712   | 101    | 171   | 458   | 2550  | 530   | 200  | 90   | 64   | 1170 | 214   | 1950  |
| 26          | 377   | 97     | 158   | 436   | 2560  | 407   | 142  | 83   | 61   | 714  | 213   | 1150  |
| 27          | 263   | 124    | 149   | 414   | 2500  | 359   | 152  | 70   | 57   | 381  | 323   | 795   |
| 28          | 222   | 575    | 144   | 1810  | 2350  | 564   | 436  | 64   | 54   | 263  | 324   | 569   |
| 29          | 188   | 599    | 150   | 1560  | ---   | 659   | 245  | 60   | 51   | 217  | 259   | 417   |
| 30          | 157   | 354    | 315   | 1100  | ---   | 488   | 163  | 56   | 70   | 183  | 259   | 786   |
| 31          | 139   | ---    | 301   | 1010  | ---   | 403   | ---  | 52   | ---  | 229  | 262   | ---   |
| TOTAL       | 7422  | 7622   | 17210 | 18201 | 29855 | 26226 | 5592 | 3182 | 1767 | 8776 | 26952 | 28384 |
| MEAN        | 239   | 254    | 555   | 587   | 1066  | 846   | 186  | 103  | 58.9 | 283  | 869   | 946   |
| MAX         | 1620  | 980    | 3320  | 2220  | 4000  | 3140  | 436  | 203  | 101  | 1170 | 7290  | 9010  |
| MIN         | 45    | 97     | 144   | 130   | 251   | 310   | 102  | 52   | 37   | 61   | 137   | 112   |
| CFSM        | .78   | .83    | 1.80  | 1.91  | 3.46  | 2.75  | .60  | .33  | .19  | .92  | 2.82  | 3.07  |
| IN.         | .90   | .92    | 2.08  | 2.20  | 3.61  | 3.17  | .68  | .38  | .21  | 1.06 | 3.26  | 3.43  |
| CAL YR 1984 | TOTAL | 169744 | MEAN  | 464   | MAX   | 4540  | MIN  | 45   | CFSM | 1.51 | IN    | 20.50 |
| WTR YR 1985 | TOTAL | 181189 | MEAN  | 496   | MAX   | 9010  | MIN  | 37   | CFSM | 1.61 | IN    | 21.88 |



## WOLF RIVER BASIN

02481510 WOLF RIVER NEAR LANDON, MS--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964-66, 1978 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1978 to September 1981.

WATER TEMPERATURE: May 1978 to September 1981.

REMARKS.--Prior to Oct. 6, 1978, daily values of specific conductance listed as 30 microsiemens represent 30 microsiemens or less due to instrument limitations.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | TUR-<br>BID-<br>ITY<br>(NTU) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | STREP-<br>TOCOCCI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML) | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CACO3) |
|--------------|------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|------------------------------|-------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|
| OCT<br>16... | 1030 | 93                                              | 32                                                | 6.5                            | 24.5                        | 2.2                          | 7.7                                 | 92                                                             | 270                                                            | 300                                                                | 7                                      | 2                                                      |
| JAN<br>16... | 1430 | 127                                             | 31                                                | 6.0                            | 9.5                         | 2.5                          | 9.7                                 | 85                                                             | 110                                                            | K28                                                                | 6                                      | 3                                                      |
| APR<br>10... | 1500 | 158                                             | 31                                                | 6.2                            | 20.5                        | 3.5                          | 10.1                                | 112                                                            | K25                                                            | K5                                                                 | 7                                      | 4                                                      |
| JUL<br>17... | 1400 | 193                                             | 33                                                | 5.6                            | 27.0                        | 7.5                          | 7.5                                 | 94                                                             | 300                                                            | K60                                                                | 6                                      | 6                                                      |

| DATE         | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LINITY<br>FIELD<br>(MG/L<br>AS<br>CACO3) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) |
|--------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|---------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|
| OCT<br>16... | 1.4                                          | .77                                                  | 2.6                                          | 42                | .5                                      | 1.0                                                 | 5                                                 | 3.2                                           | 4.7                                                 | <.10                                               | 10                                                | 36                                                                 |
| JAN<br>16... | 1.2                                          | .80                                                  | 2.6                                          | 45                | .5                                      | .50                                                 | 3                                                 | 2.8                                           | 5.1                                                 | <.10                                               | 12                                                | 28                                                                 |
| APR<br>10... | 1.4                                          | .77                                                  | 2.8                                          | 45                | .5                                      | .60                                                 | 3                                                 | 2.8                                           | 4.7                                                 | <.10                                               | 9.5                                               | 31                                                                 |
| JUL<br>17... | 1.3                                          | .77                                                  | 2.7                                          | 44                | .5                                      | .80                                                 | 0                                                 | 4.5                                           | 4.2                                                 | <.10                                               | 9.3                                               | 20                                                                 |

| DATE         | SOLIDS,<br>SUM OF<br>CONSTITUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>ORTHOPHOS-<br>PHATE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM |
|--------------|----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------|
| OCT<br>16... | 27                                                             | .05                                                 | 9.0                                               | <.10                                                          | .030                                                          | .20                                                                 | .030                                                 | <.010                                                | <.010                                                                        | 16                                         | 62                                                            |
| JAN<br>16... | 27                                                             | .04                                                 | 9.6                                               | .10                                                           | <.010                                                         | .50                                                                 | <.010                                                | <.010                                                | <.010                                                                        | 10                                         | 22                                                            |
| APR<br>10... | 25                                                             | .04                                                 | 13                                                | <.10                                                          | <.010                                                         | .20                                                                 | <.010                                                | <.010                                                | .020                                                                         | 10                                         | 84                                                            |
| JUL<br>17... | 24                                                             | .03                                                 | 10                                                | <.10                                                          | .020                                                          | .30                                                                 | <.010                                                | <.010                                                | <.010                                                                        | 24                                         | 74                                                            |

## WOLF RIVER BASIN

02481510 WOLF RIVER NEAR LANDON, MS--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | ALUM-<br>INUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AL) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | BERYL-<br>LIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BE) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | COBALT,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CO) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) |
|--------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|--------------------------------------------|--------------------------------------------|
| OCT<br>16... | 20                                                  | <1                                           | 32                                           | <.5                                                  | <1                                           | <1                                                  | <3                                           | 1                                            | 42                                         | 3                                          |
| JAN<br>16... | 60                                                  | <1                                           | 34                                           | <.5                                                  | 1                                            | 2                                                   | <3                                           | <1                                           | 160                                        | <1                                         |
| APR<br>10... | 80                                                  | <1                                           | 33                                           | .5                                                   | <1                                           | 3                                                   | <3                                           | 1                                            | 290                                        | 2                                          |
| JUL<br>17... | 70                                                  | <1                                           | 38                                           | <.5                                                  | <1                                           | <1                                                  | 3                                            | 4                                            | 170                                        | 1                                          |

| DATE         | LITHIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS LI) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | MOLYB-<br>DENUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MO) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | SILVER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AG) | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR) | YANA-<br>DIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS V) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) |
|--------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------------|--------------------------------------------|
| OCT<br>16... | <4                                           | 19                                                   | .1                                           | <10                                                   | 2                                            | <1                                                  | <1                                           | 26                                                   | <6                                                 | 5                                          |
| JAN<br>16... | <4                                           | 28                                                   | .1                                           | <10                                                   | <1                                           | <1                                                  | <1                                           | 19                                                   | <6                                                 | 3                                          |
| APR<br>10... | 7                                            | 30                                                   | .2                                           | <10                                                   | <1                                           | <1                                                  | <1                                           | 22                                                   | <6                                                 | 6                                          |
| JUL<br>17... | 5                                            | 47                                                   | <.1                                          | <10                                                   | 8                                            | <1                                                  | <1                                           | 24                                                   | <6                                                 | 18                                         |

## 02481880 PEARL RIVER AT BURNSIDE, MS

LOCATION.--Lat 32°50'27", long 89°05'51", in NE¼ sec.6, T.11 N., R.12 E., Choctaw Meridian, Neshoba County, Hydrologic Unit 03160108, on right bank at downstream edge of roadway at bridge on State Highway 15, 2.4 mi upstream from Gulf Mobile and Ohio railroad, 4.8 mi north of Philadelphia and 0.9 mi south of Burnside, MS.

DRAINAGE AREA.--520 mi<sup>2</sup>.

PERIOD OF RECORD.--January 1981 to current year.

GAGE.--Water-stage recorder. Datum of gage is 376.30 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Mar. 8-21, Mar. 23-26, Apr. 9, Jul. 22 to Aug. 17, and Aug. 25-26. Records poor. Telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,800 ft<sup>3</sup>/s, May 21, 1983, gage height, 19.77 ft; minimum daily, 1.6 ft<sup>3</sup>/s, Sept. 29, 30, 1984.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge observed, 70,600 ft<sup>3</sup>/s, Apr. 13, 1979; gage height, 23.31 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,750 ft<sup>3</sup>/s, Nov. 29, gage height, 14.85 ft; minimum, 1.2 ft<sup>3</sup>/s, Sept. 17, 20, gage height, 4.30 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT    | NOV   | DEC   | JAN  | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG  | SEP   |
|-------|--------|-------|-------|------|-------|-------|-------|-------|-------|-------|------|-------|
| 1     | 1.7    | 83    | 3560  | 189  | 1020  | 2530  | 439   | 1170  | 10    | 7.9   | 82   | 56    |
| 2     | 1.9    | 120   | 2260  | 192  | 3320  | 1960  | 475   | 1970  | 10    | 7.5   | 70   | 42    |
| 3     | 2.0    | 217   | 1630  | 203  | 6120  | 1550  | 477   | 2240  | 9.5   | 10    | 60   | 29    |
| 4     | 2.0    | 264   | 1250  | 232  | 4650  | 1270  | 449   | 2330  | 8.5   | 11    | 54   | 18    |
| 5     | 1.9    | 259   | 1120  | 265  | 3610  | 1050  | 419   | 1850  | 7.4   | 11    | 99   | 15    |
| 6     | 2.4    | 223   | 1050  | 287  | 3840  | 918   | 493   | 1380  | 6.3   | 11    | 80   | 17    |
| 7     | 2.6    | 183   | 1000  | 281  | 4820  | 774   | 543   | 1080  | 5.8   | 11    | 70   | 16    |
| 8     | 11     | 141   | 946   | 262  | 4400  | 676   | 574   | 838   | 5.6   | 8.8   | 60   | 16    |
| 9     | 11     | 112   | 878   | 242  | 3160  | 620   | 601   | 668   | 5.5   | 7.0   | 47   | 79    |
| 10    | 5.9    | 110   | 807   | 226  | 2520  | 575   | 519   | 588   | 5.4   | 5.8   | 36   | 31    |
| 11    | 4.7    | 194   | 730   | 208  | 2050  | 535   | 435   | 536   | 5.4   | 5.0   | 28   | 13    |
| 12    | 4.3    | 302   | 651   | 200  | 2260  | 490   | 339   | 524   | 5.8   | 18    | 21   | 7.3   |
| 13    | 6.0    | 339   | 566   | 185  | 2540  | 450   | 269   | 490   | 7.3   | 8.3   | 18   | 6.3   |
| 14    | 5.1    | 315   | 478   | 167  | 3250  | 410   | 233   | 415   | 7.4   | 46    | 20   | 4.0   |
| 15    | 3.4    | 251   | 417   | 158  | 2620  | 375   | 248   | 368   | 7.0   | 21    | 36   | 2.9   |
| 16    | 3.6    | 307   | 355   | 149  | 1960  | 340   | 322   | 319   | 8.4   | 12    | 60   | 1.9   |
| 17    | 12     | 319   | 290   | 187  | 1460  | 305   | 347   | 253   | 12    | 11    | 79   | 1.9   |
| 18    | 12     | 294   | 252   | 269  | 1120  | 275   | 384   | 191   | 14    | 7.1   | 102  | 2.9   |
| 19    | 7.7    | 296   | 238   | 350  | 932   | 245   | 428   | 135   | 15    | 5.3   | 121  | 2.9   |
| 20    | 6.0    | 321   | 232   | 389  | 771   | 215   | 442   | 96    | 13    | 7.2   | 145  | 2.6   |
| 21    | 36     | 328   | 223   | 419  | 635   | 190   | 420   | 76    | 11    | 11    | 164  | 2.7   |
| 22    | 192    | 295   | 219   | 413  | 538   | 143   | 367   | 61    | 11    | 15    | 140  | 2.9   |
| 23    | 317    | 246   | 220   | 385  | 474   | 172   | 307   | 55    | 9.5   | 20    | 116  | 7.6   |
| 24    | 353    | 201   | 226   | 351  | 769   | 175   | 452   | 53    | 9.9   | 31    | 100  | 11    |
| 25    | 402    | 166   | 233   | 329  | 1440  | 183   | 618   | 49    | 7.8   | 47    | 94   | 9.5   |
| 26    | 443    | 142   | 235   | 296  | 3880  | 195   | 693   | 42    | 7.2   | 35    | 90   | 10    |
| 27    | 440    | 702   | 234   | 271  | 3800  | 226   | 1020  | 38    | 7.4   | 27    | 106  | 11    |
| 28    | 396    | 4190  | 224   | 276  | 3200  | 264   | 1170  | 33    | 7.6   | 40    | 142  | 8.8   |
| 29    | 303    | 7150  | 211   | 306  | ---   | 301   | 1040  | 20    | 7.7   | 50    | 143  | 9.2   |
| 30    | 207    | 5940  | 200   | 350  | ---   | 300   | 950   | 15    | 7.9   | 63    | 111  | 15    |
| 31    | 138    | ---   | 198   | 490  | ---   | 363   | ---   | 12    | ---   | 79    | 73   | ---   |
| TOTAL | 3334.2 | 24010 | 21133 | 8527 | 71159 | 18075 | 15473 | 17895 | 256.3 | 649.9 | 2567 | 452.4 |
| MEAN  | 108    | 800   | 682   | 275  | 2541  | 583   | 516   | 577   | 8.54  | 21.0  | 82.8 | 15.1  |
| MAX   | 443    | 7150  | 3560  | 490  | 6120  | 2530  | 1170  | 2330  | 15    | 79    | 164  | 79    |
| MIN   | 1.7    | 83    | 198   | 149  | 474   | 143   | 233   | 12    | 5.4   | 5.0   | 18   | 1.9   |
| CFSM  | .21    | 1.54  | 1.31  | .53  | 4.89  | 1.12  | .99   | 1.11  | .02   | .04   | .16  | .03   |
| IN.   | .24    | 1.72  | 1.51  | .61  | 5.09  | 1.29  | 1.11  | 1.28  | .02   | .05   | .18  | .03   |

CAL YR 1984 TOTAL 226322.3 MEAN 618 MAX 8390 MIN 1.6 CFSM 1.19 IN 16.19  
WTR YR 1985 TOTAL 183531.8 MEAN 503 MAX 7150 MIN 1.7 CFSM .97 IN 13.13

## PEARL RIVER BASIN

02481880 PEARL RIVER AT BURNSIDE, MS--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT    | NOV    | DEC    | JAN    | FEB    | MAR   | APR   | MAY    | JUN    | JUL  | AUG  | SEP    |
|-------|--------|--------|--------|--------|--------|-------|-------|--------|--------|------|------|--------|
| 1     | 4.44   | 5.97   | 13.70  | 7.33   | 11.77  | 13.28 | 9.58  | 12.13  | 4.76   | 4.62 | ---  | 5.55   |
| 2     | 4.45   | 6.46   | 13.14  | 7.36   | 13.54  | 12.96 | 9.83  | 12.97  | 4.76   | 4.60 | ---  | 5.30   |
| 3     | 4.46   | 7.63   | 12.70  | 7.48   | 14.45  | 12.64 | 9.84  | 13.13  | 4.74   | 4.68 | ---  | 5.09   |
| 4     | 4.46   | 8.11   | 12.30  | 7.78   | 14.05  | 12.32 | 9.65  | 13.18  | 4.71   | 4.71 | ---  | 4.90   |
| 5     | 4.46   | 8.06   | 12.10  | 8.12   | 13.73  | 11.99 | 9.44  | 12.88  | 4.67   | 4.70 | ---  | 4.84   |
| 6     | 4.49   | 7.70   | 12.00  | 8.33   | 13.81  | 11.64 | 9.94  | 12.47  | 4.63   | 4.70 | ---  | 4.88   |
| 7     | 4.50   | 7.26   | 11.88  | 8.28   | 14.10  | 11.21 | 10.22 | 12.02  | 4.61   | 4.69 | ---  | 4.86   |
| 8     | 4.77   | 6.76   | 11.72  | 8.09   | 13.98  | ---   | 10.37 | 11.40  | 4.60   | 4.65 | ---  | 4.85   |
| 9     | 4.83   | 6.39   | 11.53  | 7.89   | 13.56  | ---   | ---   | 10.81  | 4.60   | 4.58 | ---  | 5.90   |
| 10    | 4.66   | 6.36   | 11.31  | 7.72   | 13.27  | ---   | 10.10 | 10.44  | 4.59   | 4.54 | ---  | 5.13   |
| 11    | 4.61   | 7.37   | 11.07  | 7.53   | 13.02  | ---   | 9.55  | 10.18  | 4.60   | 4.49 | ---  | 4.77   |
| 12    | 4.60   | 8.47   | 10.74  | 7.45   | 13.15  | ---   | 8.81  | 10.13  | 4.61   | 4.86 | ---  | 4.63   |
| 13    | 4.66   | 8.82   | 10.34  | 7.29   | 13.27  | ---   | 8.16  | 9.92   | 4.66   | 4.61 | ---  | 4.58   |
| 14    | 4.63   | 8.59   | 9.84   | 7.08   | 13.59  | ---   | 7.80  | 9.41   | 4.67   | 5.36 | ---  | 4.49   |
| 15    | 4.55   | 7.98   | 9.43   | 6.98   | 13.32  | ---   | 7.95  | 9.06   | 4.65   | 4.93 | ---  | 4.43   |
| 16    | 4.56   | 8.51   | 8.95   | 6.87   | 12.95  | ---   | 8.66  | 8.63   | 4.69   | 4.73 | ---  | 4.36   |
| 17    | 4.84   | 8.63   | 8.36   | 7.30   | 12.54  | ---   | 8.89  | 7.99   | 4.78   | 4.72 | ---  | 4.36   |
| 18    | 4.86   | 8.40   | 7.99   | 8.16   | 12.11  | ---   | 9.18  | 7.35   | 4.81   | 4.59 | 6.25 | 4.43   |
| 19    | 4.73   | 8.42   | 7.85   | 8.90   | 11.68  | ---   | 9.50  | 6.68   | 4.81   | 4.52 | 6.51 | 4.43   |
| 20    | 4.67   | 8.65   | 7.79   | 9.22   | 11.19  | ---   | 9.61  | 6.17   | 4.77   | 4.58 | 6.81 | 4.41   |
| 21    | 5.23   | 8.71   | 7.70   | 9.44   | 10.66  | ---   | 9.45  | 5.87   | 4.71   | 4.70 | 7.05 | 4.42   |
| 22    | 7.32   | 8.41   | 7.65   | 9.40   | 10.19  | 6.79  | 9.05  | 5.63   | 4.70   | ---  | 6.75 | 4.43   |
| 23    | 8.61   | 7.93   | 7.66   | 9.19   | 9.82   | ---   | 8.52  | 5.54   | 4.66   | ---  | 6.44 | 4.62   |
| 24    | 8.94   | 7.46   | 7.73   | 8.92   | 11.06  | ---   | 9.59  | 5.49   | 4.68   | ---  | 6.22 | 4.75   |
| 25    | 9.31   | 7.07   | 7.80   | 8.73   | 12.50  | ---   | 10.59 | 5.42   | 4.61   | ---  | ---  | 4.70   |
| 26    | 9.61   | 6.78   | 7.82   | 8.42   | 13.80  | ---   | 10.91 | 5.30   | 4.59   | ---  | ---  | 4.71   |
| 27    | 9.59   | 9.58   | 7.81   | 8.18   | 13.79  | 7.73  | 11.87 | 5.25   | 4.60   | ---  | 6.30 | 4.74   |
| 28    | 9.27   | 13.91  | 7.71   | 8.23   | 13.57  | 8.10  | 12.18 | 5.19   | 4.61   | ---  | 6.77 | 4.67   |
| 29    | 8.48   | 14.70  | 7.56   | 8.51   | ---    | 8.46  | 11.96 | 4.97   | 4.61   | ---  | 6.78 | 4.69   |
| 30    | 7.52   | 14.40  | 7.44   | 8.91   | ---    | 8.46  | 11.73 | 4.87   | 4.62   | ---  | 6.38 | 4.82   |
| 31    | 6.72   | ---    | 7.42   | 9.87   | ---    | 8.99  | ---   | 4.80   | ---    | ---  | 5.82 | ---    |
| TOTAL | 182.83 | 253.49 | 299.04 | 252.96 | 358.47 | ---   | ---   | 265.28 | 140.11 | ---  | ---  | 142.74 |
| MEAN  | 5.90   | 8.45   | 9.65   | 8.16   | 12.80  | ---   | ---   | 8.56   | 4.67   | ---  | ---  | 4.76   |
| MAX   | 9.61   | 14.70  | 13.70  | 9.87   | 14.45  | ---   | ---   | 13.18  | 4.81   | ---  | ---  | 5.90   |
| MIN   | 4.44   | 5.97   | 7.42   | 6.87   | 9.82   | ---   | ---   | 4.80   | 4.59   | ---  | ---  | 4.36   |

CAL YR 1984 TOTAL 2986.35 MEAN 8.16 MAX 15.00 MIN 4.43

## 02482000 PEARL RIVER AT EDINBURG, MS

LOCATION.--Lat 32°47'55", long 89°20'10", in SW¼SW¼ sec.13, T.11 N., R.9 E., Choctaw Meridian, Leake County, Hydrologic Unit 03180001, on right bank 20 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 National Geodetic Vertical Datum of 1929. Prior to July 2, 1930, nonrecording gage at site 500 ft upstream at datum 0.12 ft higher. July 2, 1930, to Sept. 20, 1938, nonrecording gage at present site and datum.

REMARKS.--Estimated daily discharges: Aug. 8-15. Records good. National Weather Service telemeter at station.

AVERAGE DISCHARGE.--57 years, 1,180 ft<sup>3</sup>/s, 17.73 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 77,900 ft<sup>3</sup>/s, Apr. 14, 1979, gage height, 30.06 ft; minimum, 1.7 ft<sup>3</sup>/s, Oct. 5, 1954, gage height, 1.02 ft.

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 discharge 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) |
|--------|------|--------------------------------|------------------|--------|------|--------------------------------|------------------|
| Dec. 1 | 1515 | 6,720                          | 21.56            | Feb. 7 | 0900 | *7,020                         | *21.83           |

Minimum discharge, 8.1 ft<sup>3</sup>/s, Sept. 22, gage height, 2.26 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT  | NOV   | DEC   | JAN   | FEB    | MAR   | APR   | MAY   | JUN  | JUL  | AUG  | SEP    |
|-------|------|-------|-------|-------|--------|-------|-------|-------|------|------|------|--------|
| 1     | 11   | 310   | 6640  | 406   | 2320   | 4810  | 1020  | 1870  | 66   | 34   | 283  | 119    |
| 2     | 10   | 524   | 6350  | 427   | 2850   | 4620  | 993   | 2200  | 58   | 29   | 329  | 98     |
| 3     | 10   | 523   | 5450  | 437   | 3650   | 4130  | 935   | 2500  | 57   | 30   | 354  | 81     |
| 4     | 11   | 556   | 4510  | 475   | 4390   | 3570  | 855   | 2880  | 51   | 36   | 327  | 67     |
| 5     | 11   | 561   | 3810  | 469   | 6060   | 2900  | 818   | 3060  | 45   | 35   | 277  | 56     |
| 6     | 11   | 493   | 3080  | 476   | 6750   | 2330  | 1150  | 2970  | 40   | 31   | 248  | 47     |
| 7     | 12   | 417   | 2470  | 487   | 6930   | 1890  | 1080  | 2660  | 36   | 29   | 442  | 41     |
| 8     | 20   | 357   | 2030  | 481   | 6540   | 1590  | 1080  | 2180  | 34   | 27   | 360  | 38     |
| 9     | 80   | 307   | 1740  | 458   | 6160   | 1380  | 989   | 1730  | 31   | 23   | 330  | 36     |
| 10    | 73   | 301   | 1530  | 433   | 5600   | 1200  | 902   | 1390  | 30   | 21   | 280  | 81     |
| 11    | 60   | 342   | 1370  | 414   | 5380   | 1040  | 822   | 1120  | 31   | 20   | 230  | 152    |
| 12    | 45   | 324   | 1230  | 390   | 4970   | 898   | 745   | 905   | 34   | 43   | 190  | 92     |
| 13    | 34   | 353   | 1120  | 367   | 4870   | 784   | 666   | 774   | 32   | 36   | 160  | 56     |
| 14    | 28   | 388   | 1010  | 354   | 4540   | 701   | 597   | 695   | 29   | 35   | 130  | 40     |
| 15    | 25   | 413   | 898   | 336   | 4140   | 633   | 648   | 624   | 29   | 37   | 100  | 31     |
| 16    | 25   | 804   | 785   | 324   | 3980   | 585   | 798   | 548   | 28   | 60   | 111  | 25     |
| 17    | 60   | 766   | 686   | 487   | 3640   | 555   | 760   | 462   | 27   | 66   | 222  | 21     |
| 18    | 84   | 789   | 609   | 501   | 3080   | 502   | 730   | 387   | 27   | 56   | 294  | 17     |
| 19    | 66   | 810   | 540   | 540   | 2490   | 462   | 672   | 324   | 28   | 46   | 263  | 14     |
| 20    | 55   | 716   | 499   | 580   | 1990   | 428   | 638   | 273   | 30   | 40   | 217  | 12     |
| 21    | 287  | 651   | 476   | 576   | 1640   | 416   | 630   | 219   | 31   | 29   | 189  | 9.6    |
| 22    | 801  | 587   | 476   | 568   | 1380   | 451   | 605   | 196   | 30   | 24   | 185  | 8.5    |
| 23    | 1010 | 522   | 471   | 576   | 1170   | 443   | 565   | 161   | 29   | 26   | 181  | 10     |
| 24    | 936  | 462   | 454   | 571   | 2600   | 505   | 1290  | 132   | 25   | 42   | 164  | 16     |
| 25    | 844  | 408   | 449   | 549   | 2990   | 495   | 1240  | 114   | 27   | 148  | 160  | 20     |
| 26    | 760  | 358   | 433   | 511   | 3350   | 485   | 1340  | 99    | 34   | 160  | 152  | 36     |
| 27    | 655  | 1980  | 423   | 481   | 3770   | 492   | 1540  | 87    | 37   | 199  | 132  | 47     |
| 28    | 582  | 4460  | 414   | 591   | 4510   | 639   | 1630  | 76    | 46   | 194  | 124  | 40     |
| 29    | 529  | 4800  | 406   | 585   | ---    | 634   | 1720  | 68    | 47   | 190  | 134  | 31     |
| 30    | 469  | 5930  | 393   | 647   | ---    | 636   | 1680  | 80    | 40   | 209  | 146  | 49     |
| 31    | 388  | ---   | 380   | 1120  | ---    | 1040  | ---   | 78    | ---  | 246  | 140  | ---    |
| TOTAL | 7992 | 30212 | 51132 | 15617 | 111740 | 41244 | 29138 | 30862 | 1089 | 2201 | 6854 | 1391.1 |
| MEAN  | 258  | 1007  | 1649  | 504   | 3991   | 1330  | 971   | 996   | 36.3 | 71.0 | 221  | 46.4   |
| MAX   | 1010 | 5930  | 6640  | 1120  | 6930   | 4810  | 1720  | 3060  | 66   | 246  | 442  | 152    |
| MIN   | 10   | 301   | 380   | 324   | 1170   | 416   | 565   | 68    | 25   | 20   | 100  | 8.5    |
| CFSM  | .29  | 1.11  | 1.82  | .56   | 4.42   | 1.47  | 1.07  | 1.10  | .04  | .08  | .24  | .05    |
| IN.   | .33  | 1.24  | 2.10  | .64   | 4.60   | 1.70  | 1.20  | 1.27  | .04  | .09  | .28  | .06    |

|             |       |          |      |      |     |      |     |     |      |      |    |       |
|-------------|-------|----------|------|------|-----|------|-----|-----|------|------|----|-------|
| CAL YR 1984 | TOTAL | 419896.0 | MEAN | 1147 | MAX | 8830 | MIN | 10  | CFSM | 1.27 | IN | 17.28 |
| WTR YR 1985 | TOTAL | 329472.1 | MEAN | 903  | MAX | 6930 | MIN | 8.5 | CFSM | 1.00 | IN | 13.56 |



GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY               | OCT     | NOV    | DEC       | JAN    | FEB       | MAR    | APR      | MAY    | JUN   | JUL   | AUG  | SEP   |
|-------------------|---------|--------|-----------|--------|-----------|--------|----------|--------|-------|-------|------|-------|
| 1                 | 2.56    | 5.54   | 21.49     | 6.14   | 14.17     | 19.38  | 9.47     | 12.76  | 3.49  | 2.84  | 5.27 | 3.86  |
| 2                 | 2.54    | 6.86   | 21.21     | 6.28   | 15.64     | 19.10  | 9.34     | 13.83  | 3.38  | 2.75  | 5.61 | 3.63  |
| 3                 | 2.54    | 6.89   | 20.23     | 6.34   | 17.42     | 18.34  | 9.07     | 14.71  | 3.36  | 2.76  | 5.79 | 3.43  |
| 4                 | 2.55    | 7.08   | 18.95     | 6.58   | 18.75     | 17.26  | 8.68     | 15.76  | 3.28  | 2.85  | 5.60 | 3.26  |
| 5                 | 2.55    | 7.10   | 17.74     | 6.54   | 20.89     | 15.80  | 8.48     | 16.20  | 3.18  | 2.83  | 5.23 | 3.11  |
| 6                 | 2.56    | 6.69   | 16.23     | 6.58   | 21.58     | 14.21  | 10.02    | 15.99  | 3.10  | 2.76  | 5.00 | 2.98  |
| 7                 | 2.57    | 6.21   | 14.61     | 6.66   | 21.75     | 12.82  | 9.71     | 15.16  | 3.04  | 2.72  | 6.35 | 2.90  |
| 8                 | 2.72    | 5.80   | 13.30     | 6.62   | 21.39     | 11.76  | 9.71     | 13.76  | 2.98  | 2.68  | ---  | 2.85  |
| 9                 | 3.64    | 5.46   | 12.30     | 6.47   | 21.02     | 10.95  | 9.31     | 12.25  | 2.94  | 2.61  | ---  | 2.82  |
| 10                | 3.55    | 5.40   | 11.53     | 6.31   | 20.42     | 10.22  | 8.91     | 10.97  | 2.91  | 2.55  | ---  | 3.41  |
| 11                | 3.38    | 5.71   | 10.91     | 6.19   | 20.16     | 9.54   | 8.51     | 9.87   | 2.92  | 2.53  | ---  | 4.18  |
| 12                | 3.17    | 5.58   | 10.36     | 6.03   | 19.60     | 8.89   | 8.12     | 8.92   | 2.97  | 2.92  | ---  | 3.56  |
| 13                | 3.01    | 5.78   | 9.89      | 5.88   | 19.47     | 8.32   | 7.69     | 8.27   | 2.93  | 2.82  | ---  | 3.12  |
| 14                | 2.90    | 6.02   | 9.41      | 5.79   | 18.99     | 7.88   | 7.30     | 7.85   | 2.87  | 2.81  | ---  | 2.87  |
| 15                | 2.85    | 6.18   | 8.89      | 5.66   | 18.36     | 7.51   | 7.58     | 7.49   | 2.86  | 2.84  | 3.40 | 2.74  |
| 16                | 2.84    | 8.41   | 8.33      | 5.57   | 18.06     | 7.24   | 8.39     | 7.07   | 2.84  | 3.16  | 3.75 | 2.63  |
| 17                | 3.35    | 8.22   | 7.80      | 6.65   | 17.41     | 7.06   | 8.20     | 6.59   | 2.81  | 3.25  | 4.79 | 2.55  |
| 18                | 3.69    | 8.34   | 7.37      | 6.74   | 16.22     | 6.75   | 8.04     | 6.13   | 2.80  | 3.11  | 5.35 | 2.47  |
| 19                | 3.47    | 8.45   | 6.97      | 6.97   | 14.68     | 6.50   | 7.72     | 5.73   | 2.82  | 2.97  | 5.12 | 2.41  |
| 20                | 3.32    | 7.96   | 6.73      | 7.21   | 13.17     | 6.28   | 7.53     | 5.38   | 2.85  | 2.89  | 4.75 | 2.36  |
| 21                | 5.24    | 7.61   | 6.58      | 7.18   | 11.92     | 6.20   | 7.49     | 4.98   | 2.85  | 2.70  | 4.52 | 2.30  |
| 22                | 8.34    | 7.25   | 6.59      | 7.14   | 10.94     | 6.43   | 7.35     | 4.80   | 2.83  | 2.61  | 4.48 | 2.27  |
| 23                | 9.42    | 6.87   | 6.56      | 7.18   | 10.08     | 6.37   | 7.13     | 4.49   | 2.80  | 2.64  | 4.44 | 2.31  |
| 24                | 9.07    | 6.50   | 6.44      | 7.16   | 14.81     | 6.76   | 10.50    | 4.23   | 2.73  | 2.91  | 4.30 | 2.45  |
| 25                | 8.63    | 6.15   | 6.41      | 7.03   | 16.02     | 6.71   | 10.37    | 4.05   | 2.75  | 4.08  | 4.26 | 2.54  |
| 26                | 8.19    | 5.82   | 6.31      | 6.80   | 16.82     | 6.64   | 10.78    | 3.90   | 2.88  | 4.25  | 4.18 | 2.81  |
| 27                | 7.65    | 11.80  | 6.25      | 6.61   | 17.66     | 6.68   | 11.56    | 3.77   | 2.92  | 4.61  | 3.99 | 2.99  |
| 28                | 7.25    | 18.88  | 6.19      | 7.27   | 18.95     | 7.54   | 11.88    | 3.65   | 3.05  | 4.56  | 3.91 | 2.88  |
| 29                | 6.95    | 19.35  | 6.14      | 7.23   | ---       | 7.51   | 12.23    | 3.54   | 3.05  | 4.53  | 4.01 | 2.74  |
| 30                | 6.59    | 20.78  | 6.05      | 7.58   | ---       | 7.52   | 12.06    | 3.68   | 2.95  | 4.69  | 4.12 | 2.92  |
| 31                | 6.07    | ---    | 5.97      | 9.84   | ---       | 9.48   | ---      | 3.65   | ---   | 4.99  | 4.06 | ---   |
| TOTAL             | 143.16  | 244.69 | 323.74    | 208.23 | 486.35    | 303.65 | 273.13   | 259.43 | 89.14 | 99.22 | ---  | 87.35 |
| MEAN              | 4.62    | 8.16   | 10.44     | 6.72   | 17.37     | 9.80   | 9.10     | 8.37   | 2.97  | 3.20  | ---  | 2.91  |
| MAX               | 9.42    | 20.78  | 21.49     | 9.84   | 21.75     | 19.38  | 12.23    | 16.20  | 3.49  | 4.99  | ---  | 4.18  |
| MIN               | 2.54    | 5.40   | 5.97      | 5.57   | 10.08     | 6.20   | 7.13     | 3.54   | 2.73  | 2.53  | ---  | 2.27  |
| CAL YR 1984 TOTAL | 3097.99 |        | MEAN 8.46 |        | MAX 22.40 |        | MIN 2.54 |        |       |       |      |       |

02482550 PEARL RIVER NEAR CARTHAGE, MS

LOCATION.--Lat 32°42'25", long 89°31'35", in 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 Lobutcha 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 National Geodetic National Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Mar. 22 to Apr. 19 and Aug. 16-20. Records good. National Weather Service telemeter at station.

AVERAGE DISCHARGE.--23 years, 2,090 ft<sup>3</sup>/s, 21.09 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 102,000 ft<sup>3</sup>/s, Apr. 14, 1979, gage height 28.74 ft; minimum 31 ft<sup>3</sup>/s, Oct. 30, 1963, gage height, 2.36 ft; minimum gage height, 2.29 ft, Oct. 4, 5, 6, 7, 8, 1981.

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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,400 ft<sup>3</sup>/s, Feb. 7, gage height, 19.82 ft; minimum, 60 ft<sup>3</sup>/s Oct. 1, 2-4, 5, gage height, 2.54 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY         | OCT   | NOV    | DEC   | JAN   | FEB    | MAR   | APR   | MAY   | JUN  | JUL  | AUG   | SEP   |
|-------------|-------|--------|-------|-------|--------|-------|-------|-------|------|------|-------|-------|
| 1           | 61    | 590    | 6050  | 634   | 3640   | 7310  | 2010  | 2940  | 232  | 122  | 296   | 218   |
| 2           | 60    | 867    | 6890  | 673   | 4450   | 7430  | 1880  | 3350  | 200  | 114  | 339   | 198   |
| 3           | 60    | 1110   | 7610  | 725   | 5110   | 7020  | 1780  | 3320  | 180  | 115  | 383   | 184   |
| 4           | 60    | 1050   | 7540  | 735   | 5710   | 6250  | 1620  | 3480  | 172  | 134  | 404   | 171   |
| 5           | 60    | 1020   | 6880  | 769   | 7880   | 5340  | 1460  | 3640  | 165  | 124  | 372   | 156   |
| 6           | 61    | 899    | 5860  | 777   | 9630   | 4380  | 1810  | 3670  | 153  | 109  | 356   | 144   |
| 7           | 62    | 770    | 4750  | 763   | 10300  | 3420  | 2080  | 3570  | 142  | 101  | 504   | 133   |
| 8           | 68    | 667    | 3610  | 763   | 10300  | 2720  | 1860  | 3530  | 134  | 96   | 495   | 124   |
| 9           | 185   | 587    | 2750  | 748   | 9610   | 2290  | 1620  | 2950  | 129  | 92   | 517   | 126   |
| 10          | 296   | 540    | 2280  | 721   | 8830   | 2000  | 1430  | 2100  | 126  | 86   | 469   | 135   |
| 11          | 190   | 576    | 1990  | 697   | 9130   | 1770  | 1280  | 1770  | 127  | 81   | 394   | 146   |
| 12          | 156   | 752    | 1750  | 666   | 8930   | 1570  | 1150  | 1470  | 134  | 95   | 321   | 204   |
| 13          | 128   | 635    | 1590  | 651   | 8070   | 1400  | 1070  | 1220  | 140  | 198  | 270   | 173   |
| 14          | 109   | 611    | 1460  | 612   | 7340   | 1260  | 964   | 1050  | 128  | 148  | 233   | 136   |
| 15          | 100   | 613    | 1320  | 583   | 6680   | 1140  | 939   | 933   | 132  | 116  | 206   | 116   |
| 16          | 97    | 744    | 1170  | 557   | 6040   | 1050  | 1330  | 838   | 129  | 107  | 282   | 105   |
| 17          | 117   | 1330   | 1040  | 635   | 5590   | 982   | 1580  | 741   | 121  | 119  | 397   | 97    |
| 18          | 160   | 1360   | 972   | 989   | 5130   | 914   | 1540  | 648   | 114  | 120  | 467   | 90    |
| 19          | 188   | 1240   | 901   | 1080  | 4440   | 841   | 1370  | 568   | 114  | 114  | 450   | 86    |
| 20          | 167   | 1210   | 838   | 1090  | 3570   | 783   | 1190  | 501   | 113  | 102  | 392   | 82    |
| 21          | 511   | 1080   | 806   | 1060  | 2810   | 753   | 1020  | 448   | 114  | 96   | 329   | 79    |
| 22          | 1760  | 968    | 801   | 945   | 2280   | 777   | 939   | 412   | 110  | 89   | 302   | 75    |
| 23          | 2260  | 874    | 817   | 848   | 1960   | 815   | 872   | 382   | 104  | 85   | 286   | 75    |
| 24          | 1980  | 785    | 819   | 823   | 4130   | 885   | 1930  | 335   | 101  | 88   | 278   | 80    |
| 25          | 1650  | 712    | 804   | 814   | 6160   | 1020  | 2510  | 298   | 99   | 107  | 279   | 85    |
| 26          | 1380  | 649    | 761   | 786   | 7420   | 953   | 2410  | 271   | 117  | 266  | 280   | 98    |
| 27          | 1140  | 780    | 720   | 746   | 7210   | 912   | 2440  | 249   | 120  | 300  | 261   | 112   |
| 28          | 966   | 4660   | 691   | 850   | 7010   | 1060  | 2500  | 231   | 131  | 290  | 233   | 128   |
| 29          | 844   | 5070   | 670   | 999   | ---    | 1160  | 2520  | 215   | 149  | 284  | 219   | 117   |
| 30          | 761   | 5450   | 660   | 1100  | ---    | 1170  | 2410  | 212   | 132  | 275  | 221   | 110   |
| 31          | 679   | ---    | 644   | 1920  | ---    | 1570  | ---   | 226   | ---  | 273  | 226   | ---   |
| TOTAL       | 16316 | 38199  | 75444 | 25759 | 179360 | 70945 | 49514 | 45568 | 4062 | 4446 | 10461 | 3783  |
| MEAN        | 526   | 1273   | 2434  | 831   | 6406   | 2289  | 1650  | 1470  | 135  | 143  | 337   | 126   |
| MAX         | 2260  | 5450   | 7610  | 1920  | 10300  | 7430  | 2520  | 3670  | 232  | 300  | 517   | 218   |
| MIN         | 60    | 540    | 644   | 557   | 1960   | 753   | 872   | 212   | 99   | 81   | 206   | 75    |
| CFSM        | .39   | .95    | 1.81  | .62   | 4.76   | 1.70  | 1.23  | 1.09  | .10  | .11  | .25   | .09   |
| IN.         | .45   | 1.06   | 2.09  | .71   | 4.96   | 1.96  | 1.37  | 1.26  | .11  | .12  | .29   | .10   |
| CAL YR 1984 | TOTAL | 693138 | MEAN  | 1894  | MAX    | 10700 | MIN   | 60    | CFSM | 1.41 | IN    | 19.16 |
| WTR YR 1985 | TOTAL | 523857 | MEAN  | 1435  | MAX    | 10300 | MIN   | 60    | CFSM | 1.07 | IN    | 14.48 |

## PEARL RIVER BASIN

02482550 PEARL RIVER NEAR CARTHAGE, MS--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY               | OCT     | NOV    | DEC    | JAN       | FEB       | MAR      | APR    | MAY    | JUN    | JUL    | AUG    | SEP   |
|-------------------|---------|--------|--------|-----------|-----------|----------|--------|--------|--------|--------|--------|-------|
| 1                 | 2.55    | 5.94   | 16.54  | 6.38      | 13.46     | 17.68    | 10.56  | 12.35  | 4.24   | 3.32   | 4.66   | 3.84  |
| 2                 | 2.54    | 7.07   | 17.31  | 6.55      | 14.65     | 17.78    | 10.28  | 13.02  | 3.99   | 3.24   | 4.92   | 3.68  |
| 3                 | 2.54    | 8.01   | 17.93  | 6.77      | 15.52     | 17.42    | 10.04  | 12.99  | 3.82   | 3.25   | 5.17   | 3.56  |
| 4                 | 2.54    | 7.81   | 17.87  | 6.82      | 16.21     | 16.73    | 9.67   | 13.23  | 3.75   | 3.45   | 5.28   | 3.45  |
| 5                 | 2.54    | 7.68   | 17.30  | 6.96      | 18.08     | 15.79    | 9.27   | 13.48  | 3.69   | 3.36   | 5.08   | 3.32  |
| 6                 | 2.55    | 7.22   | 16.35  | 6.99      | 19.33     | 14.55    | 10.12  | 13.53  | 3.59   | 3.19   | 4.96   | 3.21  |
| 7                 | 2.56    | 6.72   | 14.97  | 6.93      | 19.76     | 13.12    | 10.70  | 13.37  | 3.48   | 3.11   | 5.77   | 3.10  |
| 8                 | 2.66    | 6.29   | 13.43  | 6.93      | 19.72     | 11.95    | 10.24  | 13.31  | 3.41   | 3.04   | 5.71   | 3.01  |
| 9                 | 3.80    | 5.93   | 12.01  | 6.87      | 19.32     | 11.14    | 9.68   | 12.32  | 3.36   | 3.00   | 5.81   | 3.03  |
| 10                | 4.71    | 5.70   | 11.11  | 6.76      | 18.80     | 10.54    | 9.18   | 10.75  | 3.33   | 2.93   | 5.54   | 3.13  |
| 11                | 3.93    | 5.87   | 10.51  | 6.66      | 19.00     | 10.02    | 8.75   | 10.03  | 3.35   | 2.87   | 5.11   | 3.23  |
| 12                | 3.64    | 6.65   | 9.98   | 6.52      | 18.87     | 9.55     | 8.34   | 9.28   | 3.42   | 3.03   | 4.66   | 3.74  |
| 13                | 3.36    | 6.15   | 9.60   | 6.46      | 18.27     | 9.09     | 8.07   | 8.57   | 3.48   | 4.04   | 4.30   | 3.48  |
| 14                | 3.16    | 6.04   | 9.26   | 6.28      | 17.70     | 8.69     | 7.70   | 8.03   | 3.36   | 3.60   | 4.02   | 3.13  |
| 15                | 3.06    | 6.05   | 8.85   | 6.15      | 17.12     | 8.32     | 7.61   | 7.63   | 3.40   | 3.28   | 3.80   | 2.93  |
| 16                | 3.02    | 6.60   | 8.41   | 6.02      | 16.53     | 7.99     | 8.90   | 7.28   | 3.37   | 3.18   | 4.34   | 2.80  |
| 17                | 3.25    | 8.79   | 7.96   | 6.38      | 16.08     | 7.76     | 9.58   | 6.90   | 3.29   | 3.30   | 5.05   | 2.72  |
| 18                | 3.66    | 8.90   | 7.73   | 7.78      | 15.55     | 7.52     | 9.46   | 6.51   | 3.22   | 3.32   | 5.41   | 2.64  |
| 19                | 3.92    | 8.49   | 7.47   | 8.10      | 14.63     | 7.24     | 9.00   | 6.14   | 3.22   | 3.25   | 5.32   | 2.58  |
| 20                | 3.74    | 8.39   | 7.23   | 8.14      | 13.37     | 7.01     | 8.46   | 5.82   | 3.21   | 3.12   | 5.00   | 2.53  |
| 21                | 5.76    | 7.90   | 7.11   | 8.03      | 12.12     | 6.89     | 7.90   | 5.55   | 3.22   | 3.05   | 4.62   | 2.49  |
| 22                | 9.87    | 7.48   | 7.08   | 7.63      | 11.11     | 6.99     | 7.61   | 5.36   | 3.17   | 2.96   | 4.44   | 2.44  |
| 23                | 11.09   | 7.13   | 7.15   | 7.27      | 10.45     | 7.14     | 7.36   | 5.19   | 3.12   | 2.92   | 4.34   | 2.43  |
| 24                | 10.49   | 6.78   | 7.16   | 7.17      | 14.11     | 7.41     | 10.34  | 4.91   | 3.08   | 2.96   | 4.28   | 2.51  |
| 25                | 9.74    | 6.48   | 7.10   | 7.14      | 16.61     | 7.91     | 11.56  | 4.68   | 3.06   | 3.17   | 4.34   | 2.57  |
| 26                | 8.95    | 6.21   | 6.93   | 7.03      | 17.77     | 7.66     | 11.37  | 4.50   | 3.26   | 4.52   | 4.29   | 2.73  |
| 27                | 8.15    | 6.60   | 6.75   | 6.86      | 17.59     | 7.51     | 11.43  | 4.35   | 3.29   | 4.76   | 4.16   | 2.89  |
| 28                | 7.47    | 14.90  | 6.64   | 7.27      | 17.42     | 8.02     | 11.54  | 4.22   | 3.41   | 4.68   | 3.96   | 3.05  |
| 29                | 7.01    | 15.47  | 6.54   | 7.82      | ---       | 8.37     | 11.59  | 4.10   | 3.59   | 4.63   | 3.85   | 2.94  |
| 30                | 6.69    | 15.93  | 6.50   | 8.18      | ---       | 8.39     | 11.38  | 4.08   | 3.43   | 4.55   | 3.86   | 2.86  |
| 31                | 6.34    | ---    | 6.43   | 10.31     | ---       | 9.55     | ---    | 4.19   | ---    | 4.52   | 3.91   | ---   |
| TOTAL             | 155.29  | 235.18 | 317.21 | 221.16    | 459.15    | 315.73   | 287.69 | 255.67 | 102.61 | 107.60 | 145.96 | 90.02 |
| MEAN              | 5.01    | 7.84   | 10.23  | 7.13      | 16.40     | 10.18    | 9.59   | 8.25   | 3.42   | 3.47   | 4.71   | 3.00  |
| MAX               | 11.09   | 15.93  | 17.93  | 10.31     | 19.76     | 17.78    | 11.59  | 13.53  | 4.24   | 4.76   | 5.81   | 3.84  |
| MIN               | 2.54    | 5.70   | 6.43   | 6.02      | 10.45     | 6.89     | 7.36   | 4.08   | 3.06   | 2.87   | 3.80   | 2.43  |
| CAL YR 1984 TOTAL | 3111.32 |        |        | MEAN 8.50 | MAX 19.86 | MIN 2.54 |        |        |        |        |        |       |
| WTR YR 1985 TOTAL | 2693.27 |        |        | MEAN 7.38 | MAX 19.76 | MIN 2.43 |        |        |        |        |        |       |

## 02483000 TUSCOLAMETA CREEK AT WALNUT GROVE, MS

LOCATION.--Lat 32°35'18", long 89°27'54", in NW¼ 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 Gulf, Mobile and Ohio 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).

GAGE.--Water-stage recorder. Datum of gages is 322.70 ft above National Geodetic Vertical Datum of 1929 (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: Oct. 1-20, May 27 to July 23, and Aug. 2 to Sept. 30. Records poor. Discharge computed by combining flow of individually rated channels. National Weather Service telemeter at station.

AVERAGE DISCHARGE.--47 years, 545 ft<sup>3</sup>/s, 18.01 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,600 ft<sup>3</sup>/s, Jan. 7, 1950, gage height, 33.00 ft present datum, north canal, at site 0.2 miles upstream; maximum gage height, south canal, 31.53 ft, Jan. 7, 1950, present datum, at site 1,800 ft downstream; minimum discharge, 2.4 ft<sup>3</sup>/s, Oct. 2, 1954.

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) |
|---------|------|-----------------------------------|---------------------|--------|---------|-----------------------------------|---------------------|
| Nov. 27 | 1630 | 7,440                             | 26.33               | Feb. 3 | Unknown | *7,530                            | *26.07              |
| Nov. 29 | 0230 | 6,810                             | 26.06               | Feb. 7 | Unknown | 5,860                             | 25.63               |

Minimum daily discharge, 7.2 ft<sup>3</sup>/s, Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT    | NOV   | DEC   | JAN  | FEB   | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|--------|-------|-------|------|-------|-------|-------|------|------|------|------|------|
| 1     | 7.7    | 33    | 869   | 123  | 3310  | 991   | 958   | 196  | 20   | 27   | 25   | 22   |
| 2     | 7.2    | 389   | 891   | 325  | 5490  | 1240  | 618   | 230  | 19   | 21   | 24   | 21   |
| 3     | 7.4    | 836   | 2370  | 250  | 7200  | 1010  | 349   | 221  | 18   | 20   | 22   | 19   |
| 4     | 7.4    | 600   | 2840  | 212  | 3290  | 671   | 249   | 177  | 18   | 38   | 21   | 18   |
| 5     | 17     | 302   | 2690  | 203  | 2380  | 458   | 339   | 135  | 17   | 27   | 20   | 30   |
| 6     | 12     | 132   | 1500  | 164  | 3520  | 343   | 883   | 108  | 15   | 24   | 56   | 23   |
| 7     | 9.6    | 73    | 827   | 144  | 5480  | 270   | 703   | 90   | 15   | 21   | 134  | 21   |
| 8     | 9.6    | 49    | 510   | 130  | 3160  | 235   | 367   | 80   | 14   | 18   | 217  | 20   |
| 9     | 18     | 39    | 359   | 118  | 941   | 222   | 218   | 69   | 15   | 18   | 417  | 18   |
| 10    | 32     | 33    | 291   | 108  | 513   | 208   | 160   | 66   | 15   | 17   | 95   | 21   |
| 11    | 15     | 32    | 226   | 109  | 1950  | 193   | 134   | 62   | 32   | 17   | 54   | 49   |
| 12    | 34     | 35    | 196   | 129  | 2990  | 185   | 118   | 58   | 23   | 33   | 46   | 70   |
| 13    | 15     | 28    | 178   | 111  | 3540  | 183   | 168   | 51   | 24   | 26   | 39   | 29   |
| 14    | 13     | 25    | 163   | 97   | 1900  | 160   | 211   | 46   | 18   | 23   | 35   | 23   |
| 15    | 13     | 26    | 149   | 93   | 687   | 149   | 260   | 43   | 17   | 95   | 36   | 21   |
| 16    | 14     | 377   | 139   | 88   | 440   | 135   | 347   | 45   | 16   | 83   | 69   | 19   |
| 17    | 23     | 1150  | 128   | 272  | 350   | 131   | 275   | 40   | 15   | 32   | 108  | 18   |
| 18    | 35     | 798   | 120   | 705  | 298   | 126   | 203   | 37   | 15   | 22   | 220  | 17   |
| 19    | 73     | 564   | 119   | 476  | 299   | 118   | 153   | 36   | 15   | 19   | 79   | 16   |
| 20    | 37     | 530   | 113   | 295  | 297   | 109   | 120   | 33   | 15   | 20   | 50   | 15   |
| 21    | 192    | 300   | 111   | 214  | 263   | 128   | 101   | 31   | 27   | 21   | 37   | 14   |
| 22    | 852    | 152   | 115   | 153  | 234   | 381   | 86    | 33   | 21   | 23   | 31   | 14   |
| 23    | 1110   | 102   | 114   | 117  | 213   | 325   | 117   | 39   | 18   | 23   | 27   | 19   |
| 24    | 1040   | 77    | 118   | 126  | 1790  | 317   | 1510  | 39   | 17   | 86   | 24   | 63   |
| 25    | 896    | 60    | 104   | 137  | 2630  | 269   | 1250  | 30   | 20   | 161  | 23   | 26   |
| 26    | 364    | 54    | 97    | 138  | 3340  | 195   | 685   | 28   | 16   | 136  | 41   | 21   |
| 27    | 139    | 3310  | 91    | 127  | 3120  | 172   | 590   | 26   | 16   | 105  | 31   | 65   |
| 28    | 78     | 5380  | 89    | 300  | 1960  | 284   | 551   | 25   | 24   | 47   | 28   | 30   |
| 29    | 56     | 6110  | 90    | 524  | ---   | 294   | 395   | 23   | 33   | 38   | 25   | 25   |
| 30    | 45     | 2830  | 95    | 490  | ---   | 226   | 254   | 21   | 42   | 33   | 24   | 25   |
| 31    | 36     | ---   | 106   | 1570 | ---   | 793   | ---   | 20   | ---  | 29   | 23   | ---  |
| TOTAL | 5207.9 | 24426 | 15808 | 8048 | 61585 | 10521 | 12372 | 2138 | 590  | 1303 | 2081 | 792  |
| MEAN  | 168    | 814   | 510   | 260  | 2199  | 339   | 412   | 69.0 | 19.7 | 42.0 | 67.1 | 26.4 |
| MAX   | 1110   | 6110  | 2840  | 1570 | 7200  | 1240  | 1510  | 230  | 42   | 161  | 417  | 70   |
| MIN   | 7.2    | 25    | 89    | 88   | 213   | 109   | 86    | 20   | 14   | 17   | 20   | 14   |
| CFSM  | .41    | 1.98  | 1.24  | .63  | 5.35  | .83   | 1.00  | .17  | .05  | .10  | .16  | .06  |
| IN.   | .47    | 2.21  | 1.43  | .73  | 5.57  | .95   | 1.12  | .19  | .05  | .12  | .19  | .07  |

CAL YR 1984 TOTAL 200831.6 MEAN 549 MAX 6250 MIN 7.2 CFSM 1.34 IN 18.18  
WTR YR 1985 TOTAL 144871.9 MEAN 397 MAX 7200 MIN 7.2 CFSM .97 IN 13.11

## PEARL RIVER BASIN

02483000 TUSCOLAMETA CREEK AT WALNUT GROVE, MS--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY   | JUN   | JUL    | AUG   | SEP   |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|-------|-------|
| 1     | 10.30  | 10.45  | 15.67  | 11.30  | 24.24  | 16.35  | 15.02  | 11.79 | ---   | 10.59  | 10.23 | ---   |
| 2     | 10.36  | 12.80  | 15.72  | 13.10  | 25.43  | 17.17  | 13.43  | 12.16 | ---   | 10.63  | 10.24 | ---   |
| 3     | 10.36  | 14.95  | 22.10  | 12.53  | 25.96  | 16.11  | 12.58  | 12.12 | ---   | 10.62  | 10.28 | ---   |
| 4     | 10.37  | 13.81  | 23.43  | 12.17  | 23.00  | 14.72  | 11.97  | 11.77 | ---   | 10.67  | 10.34 | ---   |
| 5     | 10.38  | 12.42  | 23.10  | 12.09  | 21.89  | 13.59  | 12.76  | 11.39 | 10.09 | 10.64  | 10.35 | ---   |
| 6     | 10.38  | 11.41  | 18.28  | 11.77  | 24.49  | 12.88  | 15.30  | 11.14 | 10.12 | 10.54  | 10.41 | ---   |
| 7     | 10.36  | 10.95  | 15.08  | 11.58  | 25.47  | 12.41  | 14.12  | 10.97 | 10.18 | 10.53  | ---   | ---   |
| 8     | 10.39  | 10.72  | 13.65  | 11.43  | 23.49  | 12.18  | 12.70  | 10.86 | 10.22 | 10.54  | ---   | ---   |
| 9     | 10.44  | 10.61  | 12.82  | 11.34  | 16.37  | 12.10  | 11.92  | 10.78 | 10.25 | 10.54  | ---   | ---   |
| 10    | 10.50  | 10.56  | 12.42  | 11.24  | 13.88  | 12.01  | 11.53  | 10.73 | 10.32 | 10.55  | ---   | ---   |
| 11    | 10.52  | 10.58  | 12.17  | 11.22  | 20.15  | 11.87  | 11.33  | 10.73 | 10.37 | 10.55  | ---   | ---   |
| 12    | 10.48  | 10.68  | 11.97  | 11.35  | 23.99  | 11.81  | 11.19  | 10.69 | 10.49 | 10.69  | ---   | ---   |
| 13    | 10.44  | 10.55  | 11.84  | 11.27  | 24.64  | 11.82  | 11.56  | 10.61 | 10.47 | 10.69  | ---   | 10.94 |
| 14    | 10.39  | 10.48  | 11.75  | 11.14  | 20.62  | 11.61  | 11.78  | 10.56 | 10.45 | 10.69  | ---   | 10.86 |
| 15    | 10.43  | 10.50  | 11.65  | 11.10  | 14.93  | 11.52  | 12.22  | 10.52 | 10.44 | 10.64  | ---   | 10.75 |
| 16    | 10.54  | 12.42  | 11.55  | 11.04  | 13.51  | 11.40  | 13.04  | 10.50 | 10.46 | 10.64  | ---   | 10.90 |
| 17    | 10.57  | 16.25  | 11.47  | 11.81  | 12.97  | 11.34  | 12.53  | 10.48 | 10.50 | 10.68  | ---   | 10.87 |
| 18    | 10.70  | 14.47  | 11.43  | 14.63  | 12.62  | 11.29  | 11.98  | 10.46 | 10.55 | 10.68  | ---   | 10.84 |
| 19    | 10.72  | 13.51  | 11.39  | 13.47  | 12.57  | 11.19  | 11.52  | 10.44 | 10.58 | 10.66  | ---   | 10.88 |
| 20    | 10.65  | 13.23  | 11.33  | 12.48  | 12.57  | 11.14  | 11.23  | 10.41 | 10.61 | 10.59  | ---   | 10.89 |
| 21    | 11.27  | 12.17  | 11.27  | 12.06  | 12.37  | 11.27  | 11.04  | 10.40 | 10.60 | 10.56  | ---   | 10.87 |
| 22    | 14.93  | 11.46  | 11.28  | 11.59  | 12.20  | 12.43  | 10.90  | 10.43 | 10.56 | 10.60  | ---   | 10.85 |
| 23    | 16.48  | 11.19  | 11.30  | 11.25  | 12.06  | 12.36  | 11.19  | 10.60 | 10.53 | 10.61  | ---   | 10.91 |
| 24    | 16.43  | 11.01  | 11.38  | 11.32  | 19.52  | 12.33  | 18.80  | 10.47 | 10.54 | 10.97  | ---   | 11.10 |
| 25    | 15.76  | 10.90  | 11.22  | 11.42  | 22.20  | 12.18  | 16.86  | 10.41 | 10.67 | 11.31  | ---   | 11.23 |
| 26    | 12.57  | 10.82  | 11.17  | 11.32  | 24.33  | 11.70  | 15.20  | 10.37 | 10.59 | 10.74  | ---   | 11.16 |
| 27    | 11.34  | 19.97  | 11.12  | 11.21  | 24.13  | 11.57  | 14.55  | ---   | 10.58 | 10.55  | ---   | 11.26 |
| 28    | 10.93  | 25.51  | 11.09  | 12.09  | 20.78  | 12.38  | 14.14  | ---   | 10.63 | 10.49  | ---   | 11.16 |
| 29    | 10.75  | 25.87  | 11.09  | 13.56  | ---    | 12.55  | 12.91  | ---   | 10.59 | 10.42  | ---   | 11.05 |
| 30    | 10.62  | 22.93  | 11.10  | 13.28  | ---    | 12.00  | 12.11  | ---   | 10.62 | 10.35  | ---   | 11.06 |
| 31    | 10.49  | ---    | 11.22  | 18.34  | ---    | 15.11  | ---    | ---   | ---   | 10.30  | ---   | ---   |
| TOTAL | 350.85 | 403.18 | 412.06 | 375.50 | 540.38 | 390.39 | 387.41 | ---   | ---   | 329.26 | ---   | ---   |
| MEAN  | 11.32  | 13.44  | 13.29  | 12.11  | 19.30  | 12.59  | 12.91  | ---   | ---   | 10.62  | ---   | ---   |
| MAX   | 16.48  | 25.87  | 23.43  | 18.34  | 25.96  | 17.17  | 18.80  | ---   | ---   | 11.31  | ---   | ---   |
| MIN   | 10.30  | 10.45  | 11.09  | 11.04  | 12.06  | 11.14  | 10.90  | ---   | ---   | 10.30  | ---   | ---   |



## 02484000 YOCKANOOKANY RIVER NEAR KOSCIUSKO, MS

LOCATION.--Lat 33°01'55", long 89°34'40", in NE¼NE¼ 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 National Geodetic Vertical Datum of 1929, (levels by U. S. Army Corps of Engineers). Prior to Mar. 28, 1939, nonrecording gage at same site and datum.

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

AVERAGE DISCHARGE.--47 years, 450 ft<sup>3</sup>/s, 20.17 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,700 ft<sup>3</sup>/s, Apr. 13, 1979, gage height, 23.06 ft; minimum discharge, 2.3 ft<sup>3</sup>/s, Aug. 20-24, 1943; minimum gage height, 0.10 ft, Sept. 3-6, 1939.

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) |
|---------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Feb. 25 | 0600 | *3,690                            | *13.21              | No other peak greater than base discharge. |      |                                   |                     |

Minimum discharge, 10 ft<sup>3</sup>/s, Sept. 23, gage height, 2.91 ft, Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB   | MAR  | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|------|-------|------|-------|------|------|------|------|------|
| 1     | 24   | 73   | 232  | 122  | 1600  | 1240 | 1250  | 676  | 38   | 34   | 24   | 23   |
| 2     | 23   | 483  | 337  | 147  | 2000  | 690  | 953   | 1190 | 33   | 31   | 55   | 19   |
| 3     | 22   | 426  | 875  | 138  | 2000  | 499  | 380   | 1380 | 30   | 31   | 74   | 19   |
| 4     | 20   | 197  | 649  | 215  | 2000  | 384  | 237   | 1190 | 29   | 30   | 37   | 56   |
| 5     | 19   | 131  | 442  | 200  | 1560  | 345  | 190   | 369  | 33   | 27   | 45   | 81   |
| 6     | 17   | 99   | 455  | 184  | 2060  | 262  | 429   | 185  | 30   | 25   | 230  | 41   |
| 7     | 24   | 78   | 370  | 178  | 2110  | 210  | 384   | 137  | 25   | 24   | 526  | 32   |
| 8     | 78   | 68   | 250  | 156  | 2170  | 186  | 224   | 349  | 24   | 23   | 207  | 25   |
| 9     | 89   | 60   | 201  | 134  | 1840  | 176  | 163   | 558  | 24   | 22   | 93   | 29   |
| 10    | 52   | 59   | 177  | 124  | 1170  | 172  | 138   | 355  | 23   | 22   | 54   | 26   |
| 11    | 36   | 90   | 161  | 135  | 1300  | 158  | 118   | 220  | 304  | 30   | 39   | 24   |
| 12    | 29   | 83   | 148  | 125  | 2330  | 152  | 107   | 158  | 104  | 41   | 31   | 23   |
| 13    | 31   | 69   | 138  | 110  | 2530  | 146  | 102   | 121  | 60   | 27   | 27   | 19   |
| 14    | 24   | 61   | 132  | 103  | 2670  | 133  | 155   | 97   | 40   | 21   | 24   | 21   |
| 15    | 23   | 73   | 125  | 100  | 1580  | 123  | 526   | 82   | 34   | 25   | 26   | 19   |
| 16    | 23   | 436  | 119  | 203  | 576   | 115  | 861   | 72   | 28   | 24   | 235  | 15   |
| 17    | 85   | 308  | 119  | 1120 | 359   | 115  | 609   | 63   | 25   | 24   | 371  | 15   |
| 18    | 221  | 144  | 134  | 1320 | 282   | 102  | 290   | 57   | 29   | 23   | 135  | 13   |
| 19    | 78   | 124  | 125  | 962  | 244   | 91   | 182   | 53   | 80   | 19   | 69   | 13   |
| 20    | 48   | 112  | 119  | 414  | 225   | 87   | 140   | 51   | 44   | 17   | 53   | 12   |
| 21    | 493  | 92   | 113  | 213  | 208   | 97   | 116   | 50   | 33   | 19   | 42   | 12   |
| 22    | 964  | 78   | 157  | 156  | 188   | 329  | 99    | 51   | 27   | 18   | 37   | 11   |
| 23    | 987  | 76   | 153  | 160  | 202   | 364  | 94    | 57   | 23   | 53   | 30   | 12   |
| 24    | 981  | 74   | 129  | 172  | 2030  | 320  | 707   | 56   | 21   | 48   | 27   | 24   |
| 25    | 564  | 70   | 117  | 172  | 3540  | 253  | 931   | 47   | 20   | 52   | 27   | 44   |
| 26    | 204  | 66   | 108  | 153  | 3330  | 165  | 489   | 43   | 21   | 75   | 38   | 38   |
| 27    | 121  | 120  | 102  | 160  | 3000  | 162  | 440   | 38   | 134  | 69   | 31   | 28   |
| 28    | 90   | 656  | 102  | 485  | 2170  | 673  | 364   | 36   | 302  | 45   | 26   | 22   |
| 29    | 82   | 499  | 95   | 443  | ---   | 513  | 229   | 34   | 64   | 37   | 39   | 20   |
| 30    | 91   | 268  | 94   | 474  | ---   | 279  | 154   | 42   | 41   | 30   | 29   | 19   |
| 31    | 76   | ---  | 93   | 1150 | ---   | 945  | ---   | 47   | ---  | 25   | 24   | ---  |
| TOTAL | 5619 | 5173 | 6571 | 9928 | 45274 | 9486 | 11061 | 7864 | 1723 | 991  | 2705 | 755  |
| MEAN  | 181  | 172  | 212  | 320  | 1617  | 306  | 369   | 254  | 57.4 | 32.0 | 87.3 | 25.2 |
| MAX   | 987  | 656  | 875  | 1320 | 3540  | 1240 | 1250  | 1380 | 304  | 75   | 526  | 81   |
| MIN   | 17   | 59   | 93   | 100  | 188   | 87   | 94    | 34   | 20   | 17   | 24   | 11   |
| CFSM  | .60  | .57  | .70  | 1.06 | 5.34  | 1.01 | 1.22  | .84  | .19  | .11  | .29  | .08  |
| IN.   | .69  | .64  | .81  | 1.22 | 5.56  | 1.16 | 1.36  | .97  | .21  | .12  | .33  | .09  |

|             |       |        |          |          |        |           |          |
|-------------|-------|--------|----------|----------|--------|-----------|----------|
| CAL YR 1984 | TOTAL | 157274 | MEAN 430 | MAX 3600 | MIN 17 | CFSM 1.42 | IN 19.31 |
| WTR YR 1985 | TOTAL | 107150 | MEAN 294 | MAX 3540 | MIN 11 | CFSM .97  | IN 13.16 |

## PEARL RIVER BASIN

02484500 YOCKANOOKANY RIVER NEAR OFAHOMA, MS

LOCATION.--Lat 32°42'20", long 89°40'20", in NE¼NW¼ 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 311.15 ft above National Geodetic Vertical Datum of 1929 (levels by U. S. Army Corps of Engineers). Prior to Sept. 5, 1962, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: June 14 to July 12. Records good.

AVERAGE DISCHARGE.--42 years, 711 ft<sup>3</sup>/s, 20.59 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 46,500 ft<sup>3</sup>/s, Apr. 14, 1979, gage height, 23.27 ft; minimum, 4.9 ft<sup>3</sup>/s, Aug. 20, Sept. 11, 1954; minimum gage height, 0.68 ft, Oct. 3-6, 1984.

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) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Feb. 6  | 0900 | 3,450                             | 14.29               | Feb. 25 | 0700 | *3,810                            | *14.82              |
| Feb. 12 | 0400 | 3,020                             | 13.58               |         |      |                                   |                     |

Minimum discharge, 18 ft<sup>3</sup>/s, Oct. 3-6, gage height, 0.68 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT  | NOV  | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| 1     | 19   | 145  | 769   | 152   | 1710  | 3080  | 791   | 774   | 61   | 128  | 53   | 47   |
| 2     | 19   | 259  | 681   | 172   | 2170  | 2780  | 795   | 695   | 66   | 76   | 48   | 44   |
| 3     | 18   | 335  | 727   | 189   | 2180  | 2220  | 964   | 766   | 63   | 58   | 49   | 45   |
| 4     | 19   | 415  | 840   | 235   | 2120  | 1590  | 1100  | 969   | 55   | 56   | 73   | 75   |
| 5     | 18   | 462  | 947   | 248   | 2640  | 1100  | 974   | 1130  | 48   | 61   | 100  | 53   |
| 6     | 20   | 391  | 1030  | 283   | 3390  | 775   | 992   | 1230  | 45   | 47   | 69   | 55   |
| 7     | 20   | 257  | 957   | 285   | 2980  | 588   | 830   | 1080  | 43   | 44   | 87   | 97   |
| 8     | 22   | 182  | 745   | 267   | 2470  | 479   | 571   | 579   | 44   | 41   | 209  | 77   |
| 9     | 93   | 141  | 583   | 251   | 2230  | 404   | 513   | 311   | 43   | 40   | 298  | 104  |
| 10    | 192  | 149  | 461   | 234   | 2100  | 348   | 415   | 349   | 40   | 36   | 283  | 79   |
| 11    | 134  | 330  | 356   | 212   | 2490  | 319   | 304   | 437   | 40   | 36   | 171  | 49   |
| 12    | 92   | 206  | 289   | 199   | 2900  | 302   | 246   | 448   | 43   | 36   | 98   | 45   |
| 13    | 63   | 169  | 253   | 196   | 2360  | 286   | 213   | 351   | 138  | 46   | 70   | 41   |
| 14    | 48   | 151  | 228   | 183   | 2120  | 270   | 199   | 257   | 164  | 81   | 70   | 38   |
| 15    | 42   | 131  | 209   | 165   | 2140  | 258   | 324   | 207   | 100  | 58   | 54   | 35   |
| 16    | 44   | 320  | 197   | 155   | 2230  | 242   | 565   | 166   | 69   | 52   | 98   | 34   |
| 17    | 50   | 451  | 185   | 324   | 2130  | 229   | 710   | 138   | 49   | 48   | 291  | 33   |
| 18    | 54   | 519  | 180   | 483   | 1600  | 216   | 774   | 119   | 45   | 43   | 346  | 31   |
| 19    | 87   | 535  | 180   | 624   | 1010  | 206   | 786   | 103   | 41   | 40   | 364  | 30   |
| 20    | 172  | 418  | 186   | 836   | 621   | 192   | 630   | 92    | 49   | 38   | 267  | 29   |
| 21    | 446  | 297  | 185   | 1030  | 457   | 184   | 384   | 87    | 74   | 36   | 154  | 28   |
| 22    | 814  | 234  | 185   | 1000  | 386   | 199   | 258   | 91    | 70   | 36   | 101  | 28   |
| 23    | 911  | 189  | 190   | 624   | 348   | 255   | 205   | 91    | 54   | 37   | 82   | 27   |
| 24    | 826  | 158  | 220   | 351   | 382   | 424   | 904   | 85    | 48   | 57   | 68   | 27   |
| 25    | 787  | 142  | 223   | 292   | 2600  | 500   | 1060  | 84    | 42   | 59   | 61   | 27   |
| 26    | 804  | 134  | 193   | 276   | 3510  | 480   | 814   | 84    | 38   | 76   | 58   | 27   |
| 27    | 805  | 307  | 172   | 263   | 3530  | 430   | 978   | 75    | 39   | 77   | 51   | 35   |
| 28    | 645  | 516  | 158   | 320   | 3360  | 449   | 1040  | 68    | 42   | 109  | 49   | 57   |
| 29    | 340  | 554  | 150   | 366   | ---   | 415   | 821   | 63    | 76   | 102  | 51   | 48   |
| 30    | 196  | 724  | 147   | 484   | ---   | 479   | 626   | 62    | 203  | 75   | 49   | 42   |
| 31    | 153  | ---  | 141   | 1060  | ---   | 686   | ---   | 63    | ---  | 63   | 46   | ---  |
| TOTAL | 7953 | 9221 | 11967 | 11759 | 58164 | 20385 | 19786 | 11054 | 1932 | 1792 | 3868 | 1387 |
| MEAN  | 257  | 307  | 386   | 379   | 2077  | 658   | 660   | 357   | 64.4 | 57.8 | 125  | 46.2 |
| MAX   | 911  | 724  | 1030  | 1060  | 3530  | 3080  | 1100  | 1230  | 203  | 128  | 364  | 104  |
| MIN   | 18   | 131  | 141   | 152   | 348   | 184   | 199   | 62    | 38   | 36   | 46   | 27   |
| CFSM  | .55  | .66  | .82   | .81   | 4.43  | 1.40  | 1.41  | .76   | .14  | .12  | .27  | .10  |
| IN.   | .63  | .73  | .95   | .93   | 4.61  | 1.62  | 1.57  | .88   | .15  | .14  | .31  | .11  |

CAL YR 1984 TOTAL 246313 MEAN 673 MAX 4790 MIN 18 CFSM 1.44 IN 19.54  
WTR YR 1985 TOTAL 159268 MEAN 436 MAX 3530 MIN 18 CFSM .93 IN 12.63

## 02484500 YOCKANOOKANY RIVER NEAR OFAHOMA, MS--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT   | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 1     | .71   | 2.36   | 6.62   | 2.55   | 10.50  | 13.68  | 6.73   | 6.64   | 1.44  | 2.16  | 1.16  | 1.07  |
| 2     | .70   | 3.33   | 6.16   | 2.74   | 11.85  | 13.14  | 6.75   | 6.24   | 1.51  | 1.55  | 1.08  | 1.02  |
| 3     | .68   | 3.94   | 6.41   | 2.89   | 11.87  | 11.94  | 7.56   | 6.60   | 1.46  | 1.29  | 1.10  | 1.03  |
| 4     | .69   | 4.51   | 6.97   | 3.29   | 11.71  | 10.09  | 8.16   | 7.58   | 1.35  | 1.25  | 1.44  | 1.48  |
| 5     | .68   | 4.84   | 7.48   | 3.40   | 12.82  | 8.16   | 7.60   | 8.32   | 1.25  | 1.32  | 1.78  | 1.16  |
| 6     | .72   | 4.34   | 7.86   | 3.68   | 14.19  | 6.64   | 7.68   | 8.70   | 1.20  | 1.11  | 1.39  | 1.19  |
| 7     | .73   | 3.34   | 7.53   | 3.69   | 13.49  | 5.65   | 6.91   | 8.05   | 1.17  | 1.05  | 1.60  | 1.75  |
| 8     | .78   | 2.71   | 6.50   | 3.55   | 12.53  | 5.01   | 5.55   | 5.55   | 1.18  | 1.00  | 2.85  | 1.49  |
| 9     | 1.72  | 2.32   | 5.62   | 3.43   | 12.00  | 4.53   | 5.22   | 3.83   | 1.16  | .97   | 3.58  | 1.79  |
| 10    | 2.87  | 2.38   | 4.89   | 3.29   | 11.68  | 4.15   | 4.60   | 4.11   | 1.12  | .90   | 3.47  | 1.51  |
| 11    | 2.31  | 3.90   | 4.20   | 3.10   | 12.53  | 3.95   | 3.83   | 4.71   | 1.12  | .90   | 2.52  | 1.10  |
| 12    | 1.85  | 2.92   | 3.72   | 2.99   | 13.35  | 3.82   | 3.38   | 4.78   | 1.17  | .88   | 1.75  | 1.04  |
| 13    | 1.47  | 2.60   | 3.44   | 2.96   | 12.28  | 3.70   | 3.11   | 4.12   | 2.31  | 1.03  | 1.40  | .97   |
| 14    | 1.24  | 2.42   | 3.24   | 2.84   | 11.71  | 3.57   | 2.99   | 3.42   | 2.62  | 1.55  | 1.41  | .92   |
| 15    | 1.16  | 2.22   | 3.08   | 2.68   | 11.77  | 3.48   | 3.95   | 3.00   | 1.93  | 1.23  | 1.17  | .87   |
| 16    | 1.18  | 3.81   | 2.97   | 2.58   | 11.99  | 3.35   | 5.52   | 2.63   | 1.54  | 1.15  | 1.71  | .84   |
| 17    | 1.28  | 4.76   | 2.86   | 3.94   | 11.74  | 3.24   | 6.32   | 2.36   | 1.24  | 1.08  | 3.52  | .82   |
| 18    | 1.34  | 5.20   | 2.82   | 5.03   | 10.15  | 3.13   | 6.65   | 2.15   | 1.18  | 1.00  | 3.93  | .79   |
| 19    | 1.76  | 5.30   | 2.82   | 5.85   | 7.77   | 3.05   | 6.70   | 1.98   | 1.10  | .95   | 4.06  | .77   |
| 20    | 2.70  | 4.53   | 2.87   | 6.95   | 5.83   | 2.93   | 5.88   | 1.85   | 1.23  | .91   | 3.33  | .75   |
| 21    | 4.65  | 3.66   | 2.86   | 7.84   | 4.87   | 2.85   | 4.39   | 1.78   | 1.58  | .89   | 2.35  | .74   |
| 22    | 6.84  | 3.17   | 2.86   | 7.72   | 4.41   | 2.99   | 3.48   | 1.83   | 1.52  | .88   | 1.79  | .73   |
| 23    | 7.31  | 2.78   | 2.91   | 5.83   | 4.15   | 3.45   | 3.04   | 1.84   | 1.29  | .90   | 1.56  | .72   |
| 24    | 6.90  | 2.49   | 3.17   | 4.17   | 4.39   | 4.66   | 7.15   | 1.76   | 1.18  | 1.22  | 1.37  | .72   |
| 25    | 6.71  | 2.33   | 3.19   | 3.74   | 11.51  | 5.14   | 7.99   | 1.75   | 1.08  | 1.25  | 1.28  | .71   |
| 26    | 6.80  | 2.25   | 2.94   | 3.63   | 14.39  | 5.02   | 6.85   | 1.74   | 1.00  | 1.49  | 1.24  | .71   |
| 27    | 6.80  | 3.62   | 2.74   | 3.52   | 14.42  | 4.70   | 7.62   | 1.63   | 1.03  | 1.50  | 1.14  | .85   |
| 28    | 5.94  | 5.18   | 2.61   | 3.95   | 14.15  | 4.82   | 7.91   | 1.54   | 1.07  | 1.88  | 1.10  | 1.23  |
| 29    | 3.96  | 5.42   | 2.53   | 4.28   | ---    | 4.60   | 6.87   | 1.47   | 1.56  | 1.81  | 1.13  | 1.08  |
| 30    | 2.84  | 6.39   | 2.50   | 5.03   | ---    | 5.01   | 5.86   | 1.46   | 2.88  | 1.47  | 1.09  | .99   |
| 31    | 2.44  | ---    | 2.44   | 7.97   | ---    | 6.18   | ---    | 1.47   | ---   | 1.31  | 1.05  | ---   |
| TOTAL | 87.76 | 109.02 | 128.81 | 129.11 | 304.05 | 166.63 | 176.25 | 114.89 | 42.47 | 37.88 | 59.35 | 30.84 |
| MEAN  | 2.83  | 3.63   | 4.16   | 4.16   | 10.86  | 5.38   | 5.88   | 3.71   | 1.42  | 1.22  | 1.91  | 1.03  |
| MAX   | 7.31  | 6.39   | 7.86   | 7.97   | 14.42  | 13.68  | 8.16   | 8.70   | 2.88  | 2.16  | 4.06  | 1.79  |
| MIN   | .68   | 2.22   | 2.44   | 2.55   | 4.15   | 2.85   | 2.99   | 1.46   | 1.00  | .88   | 1.05  | .71   |

WTR YR 1985 TOTAL 1387.06 MEAN 3.80 MAX 14.42 MIN .68



## 02485700 HANGING MOSS CREEK AT JACKSON, MS

LOCATION.--Lat 32°21'57", long 90°08'57", in NE¼ sec.13, T.6 N., R.1 E., Choctaw Meridian, 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.

GAGE.--Water-stage recorder. Datum of gage is 260.00 ft above National Geodetic Vertical Datum of 1929. Prior to July 11, 1980, at datum 1.33 ft higher, at site located 0.6 mi upstream at downstream side of bridge on frontage road, 100 ft downstream from U. S. Highway 51 (Interstate 55).

REMARKS.--Estimated daily discharges: Oct. 18-25. Records fair. Telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,320 ft<sup>3</sup>/s, Apr. 29, 1953, gage height 26.0 ft; minimum daily, 0.41 ft<sup>3</sup>/s, Aug. 15, 1983, gage height, 8.15 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,330 ft<sup>3</sup>/s, Feb. 24, gage height, 15.90 ft; minimum daily discharge, 0.59 ft<sup>3</sup>/s, July 19-21.

REVISIONS.--Revised daily discharges, in cubic feet per second, for August and September 1984, are given below. These figures supersede those published in the report of 1984.

|              |     |              |     |               |     |               |     |
|--------------|-----|--------------|-----|---------------|-----|---------------|-----|
| Aug. 1.....  | 1.4 | Aug. 9.....  | 2.7 | Aug. 17.....  | 1.1 | Aug. 25.....  | 1.0 |
| 2.....       | 1.6 | 10.....      | 2.1 | 18.....       | 1.1 | 26.....       | .93 |
| 3.....       | 1.2 | 11.....      | 141 | 19.....       | 1.3 | 27.....       | .90 |
| 4.....       | 14  | 12.....      | 3.9 | 20.....       | 1.1 | 28.....       | 1.0 |
| 5.....       | 9.7 | 13.....      | 17  | 21.....       | 1.1 | 29.....       | .92 |
| 6.....       | 1.1 | 14.....      | 10  | 22.....       | 77  | 30.....       | .94 |
| 7.....       | 8.4 | 15.....      | 3.0 | 23.....       | 9.2 | 31.....       | .97 |
| 8.....       | 5.6 | 16.....      | 1.3 | 24.....       | 1.9 |               |     |
| Sept. 1..... | .92 | Sept. 9..... | .90 | Sept. 17..... | 1.1 | Sept. 25..... | .90 |
| 2.....       | 16  | 10.....      | .94 | 18.....       | 1.3 | 26.....       | .90 |
| 3.....       | 1.7 | 11.....      | .97 | 19.....       | 1.2 | 27.....       | .90 |
| 4.....       | .85 | 12.....      | 1.1 | 20.....       | 1.2 | 28.....       | .94 |
| 5.....       | .87 | 13.....      | 1.1 | 21.....       | 1.2 | 29.....       | 1.0 |
| 6.....       | .91 | 14.....      | 1.1 | 22.....       | 1.2 | 30.....       | .98 |
| 7.....       | .94 | 15.....      | 1.1 | 23.....       | 1.9 |               |     |
| 8.....       | .93 | 16.....      | 1.1 | 24.....       | .95 |               |     |

| MONTH       | TOTAL     | MEAN | MAX   | MIN |
|-------------|-----------|------|-------|-----|
| Aug. 1984   | 324.46    | 10.5 | 141   | .90 |
| Sept. 1984  | 47.10     | 1.57 | 16    | .85 |
| Wtr Yr 1984 | 10,916.58 | 29.8 | 1,320 | .50 |



## PEARL RIVER BASIN

02485700 HANGING MOSS CREEK AT JACKSON, MS--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY         | OCT     | NOV     | DEC   | JAN   | FEB    | MAR   | APR   | MAY   | JUN   | JUL    | AUG   | SEP   |
|-------------|---------|---------|-------|-------|--------|-------|-------|-------|-------|--------|-------|-------|
| 1           | .92     | 28      | 4.9   | 16    | 155    | 114   | 15    | 203   | 1.6   | 2.8    | 11    | 1.7   |
| 2           | .94     | 51      | 109   | 4.3   | 30     | 31    | 10    | 28    | 1.5   | 4.0    | 10    | 2.1   |
| 3           | .92     | 8.8     | 27    | 15    | 14     | 17    | 4.5   | 9.1   | 1.4   | .90    | 17    | 23    |
| 4           | .94     | 4.3     | 60    | 11    | 54     | 13    | 2.8   | 3.7   | 1.2   | .82    | 3.3   | 4.0   |
| 5           | .92     | 3.2     | 47    | 7.9   | 582    | 8.0   | 52    | 2.2   | 1.9   | .90    | 1.9   | 1.9   |
| 6           | .92     | 2.7     | 21    | 6.6   | 58     | 5.7   | 32    | 1.9   | 1.1   | .90    | 8.0   | 5.8   |
| 7           | .94     | 2.4     | 7.8   | 4.9   | 40     | 4.7   | 7.2   | 1.8   | 2.2   | .83    | 8.0   | 2.4   |
| 8           | 5.1     | 2.3     | 5.0   | 4.0   | 14     | 4.2   | 3.2   | 1.8   | 2.2   | .86    | 2.3   | 1.8   |
| 9           | 1.2     | 2.2     | 3.8   | 2.7   | 9.8    | 4.1   | 2.3   | 1.7   | .83   | 1.0    | 1.8   | 1.9   |
| 10          | 16      | 3.0     | 2.9   | 2.6   | 10     | 3.6   | 1.7   | 1.7   | .93   | 11     | 1.8   | 1.8   |
| 11          | 4.1     | 2.1     | 2.5   | 2.6   | 535    | 3.8   | 1.4   | 1.6   | 2.8   | 3.7    | 1.8   | 1.8   |
| 12          | .70     | 2.1     | 2.2   | 2.4   | 34     | 3.5   | 1.4   | 1.6   | 1.2   | .82    | 1.8   | 1.8   |
| 13          | .60     | 2.1     | 2.0   | 2.1   | 17     | 3.3   | 1.4   | 1.7   | .74   | .69    | 2.6   | 1.7   |
| 14          | 2.4     | 2.1     | 1.8   | 2.1   | 12     | 2.8   | 53    | 4.3   | .84   | .91    | 21    | 1.7   |
| 15          | 2.5     | 18      | 1.7   | 2.1   | 8.1    | 2.4   | 12    | 2.4   | .79   | .93    | 13    | 1.7   |
| 16          | .94     | 162     | 1.5   | 70    | 6.0    | 2.4   | 3.6   | 1.4   | .82   | 1.1    | 310   | 1.9   |
| 17          | 118     | 14      | 1.5   | 81    | 5.0    | 2.1   | 2.1   | 1.5   | .91   | .79    | 8.3   | 2.0   |
| 18          | 40      | 13      | 1.7   | 17    | 4.4    | 2.9   | 1.7   | 1.4   | 11    | .66    | 2.8   | 1.9   |
| 19          | 10      | 15      | 1.3   | 10    | 4.1    | 2.8   | 1.5   | 1.5   | 1.1   | .59    | 1.9   | 2.0   |
| 20          | 150     | 5.6     | 1.3   | 7.3   | 3.8    | 11    | 1.5   | 1.5   | .71   | .59    | 1.9   | 1.9   |
| 21          | 617     | 4.2     | 1.9   | 3.9   | 5.4    | 12    | 1.3   | 8.4   | 1.1   | .59    | 1.8   | 1.9   |
| 22          | 419     | 3.0     | 1.8   | 2.9   | 3.5    | 8.5   | 1.2   | 2.6   | .77   | 4.2    | 1.7   | 2.3   |
| 23          | 100     | 2.6     | 1.5   | 2.9   | 81     | 5.3   | 1.5   | 1.2   | .88   | 84     | 1.6   | 2.8   |
| 24          | 30      | 2.4     | 1.6   | 3.2   | 797    | 3.9   | 204   | 1.3   | 1.2   | 5.3    | 1.5   | 3.2   |
| 25          | 10      | 2.4     | 1.9   | 3.6   | 172    | 2.5   | 12    | 1.3   | 1.6   | 3.9    | 3.7   | 5.8   |
| 26          | 3.4     | 2.4     | 1.6   | 3.3   | 43     | 1.7   | 13    | 1.4   | .95   | 2.1    | 2.8   | 12    |
| 27          | 2.9     | 422     | 1.9   | 41    | 24     | 23    | 21    | 1.4   | 2.2   | 1.9    | 1.9   | 2.7   |
| 28          | 2.7     | 29      | 1.5   | 50    | 17     | 13    | 10    | 1.5   | .96   | 1.9    | 1.7   | 2.4   |
| 29          | 2.5     | 10      | 1.7   | 16    | ---    | 5.2   | 9.1   | 1.7   | .84   | 1.9    | 1.8   | 2.4   |
| 30          | 2.6     | 8.1     | 1.6   | 200   | ---    | 6.8   | 13    | 1.7   | .95   | 1.9    | 1.8   | 22    |
| 31          | 2.4     | ---     | 8.9   | 259   | ---    | 157   | ---   | 1.6   | ---   | 56     | 1.7   | ---   |
| TOTAL       | 1550.54 | 830.0   | 331.8 | 857.4 | 2739.1 | 481.2 | 496.4 | 297.9 | 47.22 | 198.48 | 452.2 | 122.3 |
| MEAN        | 50.0    | 27.7    | 10.7  | 27.7  | 97.8   | 15.5  | 16.5  | 9.61  | 1.57  | 6.40   | 14.6  | 4.08  |
| MAX         | 617     | 422     | 109   | 259   | 797    | 157   | 204   | 203   | 11    | 84     | 310   | 23    |
| MIN         | .60     | 2.1     | 1.3   | 2.1   | 3.5    | 1.7   | 1.2   | 1.2   | .71   | .59    | 1.5   | 1.7   |
| CFSM        | 2.98    | 1.65    | .64   | 1.65  | 5.82   | .92   | .98   | .57   | .09   | .38    | .87   | .24   |
| IN.         | 3.43    | 1.84    | .73   | 1.90  | 6.06   | 1.07  | 1.10  | .66   | .10   | .44    | 1.00  | .27   |
| CAL YR 1984 | TOTAL   | 9876.52 | MEAN  | 27.0  | MAX    | 1320  | MIN   | .60   | CFSM  | 1.61   | IN    | 21.87 |
| WTR YR 1985 | TOTAL   | 8404.54 | MEAN  | 23.0  | MAX    | 797   | MIN   | .59   | CFSM  | 1.37   | IN    | 18.61 |

## 02485700 HANGING MOSS CREEK AT JACKSON, MS--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT  | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1     | 8.31 | 8.68   | 8.59   | 8.81   | 9.86   | 9.60   | 8.81   | 10.04  | 8.39   | 8.38   | 8.67   | 8.37   |
| 2     | 8.31 | 9.21   | 9.40   | 8.53   | 9.00   | 9.02   | 8.70   | 8.98   | 8.38   | 8.47   | 8.66   | 8.39   |
| 3     | 8.31 | 8.69   | 9.00   | 8.78   | 8.76   | 8.82   | 8.53   | 8.68   | 8.37   | 8.31   | 8.68   | 8.81   |
| 4     | 8.31 | 8.54   | 9.22   | 8.74   | 9.04   | 8.73   | 8.45   | 8.51   | 8.34   | 8.30   | 8.46   | 8.48   |
| 5     | 8.31 | 8.49   | 9.21   | 8.66   | 11.26  | 8.61   | 8.93   | 8.43   | 8.40   | 8.31   | 8.39   | 8.38   |
| 6     | 8.31 | 8.47   | 8.94   | 8.62   | 9.29   | 8.55   | 9.01   | 8.41   | 8.34   | 8.31   | 8.55   | 8.52   |
| 7     | 8.31 | 8.45   | 8.69   | 8.55   | 9.12   | 8.51   | 8.63   | 8.40   | 8.41   | 8.30   | 8.59   | 8.39   |
| 8     | 8.46 | 8.45   | 8.59   | 8.51   | 8.75   | 8.49   | 8.47   | 8.40   | 8.41   | 8.31   | 8.42   | 8.36   |
| 9     | 8.34 | 8.45   | 8.55   | 8.45   | 8.66   | 8.49   | 8.42   | 8.39   | 8.31   | 8.32   | 8.38   | 8.36   |
| 10    | 8.73 | 8.49   | 8.51   | 8.44   | 8.64   | 8.47   | 8.38   | 8.39   | 8.32   | 8.62   | 8.38   | 8.35   |
| 11    | 8.48 | 8.44   | 8.49   | 8.43   | 11.01  | 8.48   | 8.36   | 8.39   | 8.42   | 8.43   | 8.38   | 8.35   |
| 12    | 8.29 | 8.44   | 8.47   | 8.42   | 9.05   | 8.47   | 8.36   | 8.39   | 8.34   | 8.29   | 8.38   | 8.35   |
| 13    | 8.28 | 8.44   | 8.46   | 8.40   | 8.82   | 8.46   | 8.36   | 8.39   | 8.30   | 8.27   | 8.42   | 8.34   |
| 14    | 8.35 | 8.44   | 8.44   | 8.40   | 8.71   | 8.44   | 8.93   | 8.49   | 8.31   | 8.30   | 8.68   | 8.34   |
| 15    | 8.43 | 8.65   | 8.43   | 8.39   | 8.61   | 8.42   | 8.74   | 8.43   | 8.31   | 8.30   | 8.72   | 8.34   |
| 16    | 8.31 | 9.82   | 8.42   | 8.93   | 8.54   | 8.42   | 8.49   | 8.37   | 8.31   | 8.32   | 10.18  | 8.36   |
| 17    | 9.43 | 8.81   | 8.42   | 9.39   | 8.51   | 8.41   | 8.41   | 8.38   | 8.32   | 8.29   | 8.64   | 8.36   |
| 18    | ---  | 8.75   | 8.43   | 8.84   | 8.48   | 8.45   | 8.38   | 8.37   | 8.66   | 8.27   | 8.44   | 8.36   |
| 19    | ---  | 8.83   | 8.40   | 8.69   | 8.47   | 8.45   | 8.37   | 8.38   | 8.34   | 8.26   | 8.39   | 8.36   |
| 20    | ---  | 8.61   | 8.39   | 8.60   | 8.45   | 8.61   | 8.36   | 8.38   | 8.30   | 8.26   | 8.39   | 8.36   |
| 21    | ---  | 8.55   | 8.43   | 8.48   | 8.51   | 8.73   | 8.35   | 8.57   | 8.32   | 8.26   | 8.38   | 8.36   |
| 22    | ---  | 8.50   | 8.43   | 8.43   | 8.44   | 8.66   | 8.34   | 8.44   | 8.29   | 8.46   | 8.37   | 8.39   |
| 23    | ---  | 8.47   | 8.41   | 8.43   | 8.79   | 8.55   | 8.37   | 8.35   | 8.31   | 9.24   | 8.37   | 8.41   |
| 24    | ---  | 8.47   | 8.41   | 8.44   | 11.70  | 8.50   | 9.82   | 8.36   | 8.33   | 8.55   | 8.36   | 8.43   |
| 25    | ---  | 8.47   | 8.43   | 8.46   | 9.89   | 8.43   | 8.71   | 8.36   | 8.37   | 8.50   | 8.47   | 8.45   |
| 26    | 8.50 | 8.47   | 8.41   | 8.44   | 9.15   | 8.38   | 8.68   | 8.37   | 8.32   | 8.40   | 8.44   | 8.67   |
| 27    | 8.48 | 10.56  | 8.43   | 8.88   | 8.93   | 8.83   | 8.84   | 8.37   | 8.39   | 8.39   | 8.39   | 8.39   |
| 28    | 8.47 | 9.03   | 8.40   | 9.20   | 8.81   | 8.77   | 8.63   | 8.38   | 8.31   | 8.39   | 8.37   | 8.38   |
| 29    | 8.46 | 8.75   | 8.40   | 8.79   | ---    | 8.56   | 8.59   | 8.39   | 8.30   | 8.39   | 8.38   | 8.38   |
| 30    | 8.46 | 8.69   | 8.40   | 9.82   | ---    | 8.51   | 8.54   | 8.39   | 8.31   | 8.39   | 8.38   | 8.83   |
| 31    | 8.45 | ---    | 8.58   | 10.15  | ---    | 9.78   | ---    | 8.38   | ---    | 8.82   | 8.37   | ---    |
| TOTAL | ---  | 261.11 | 265.78 | 270.10 | 255.25 | 267.60 | 257.96 | 262.96 | 250.53 | 260.41 | 264.08 | 252.62 |
| MEAN  | ---  | 8.70   | 8.57   | 8.71   | 9.12   | 8.63   | 8.60   | 8.48   | 8.35   | 8.40   | 8.52   | 8.42   |
| MAX   | ---  | 10.56  | 9.40   | 10.15  | 11.70  | 9.78   | 9.82   | 10.04  | 8.66   | 9.24   | 10.18  | 8.83   |
| MIN   | ---  | 8.44   | 8.39   | 8.39   | 8.44   | 8.38   | 8.34   | 8.35   | 8.29   | 8.26   | 8.36   | 8.34   |

## PEARL RIVER BASIN

02486000 PEARL RIVER AT JACKSON, MS

LOCATION.--Lat 32°16'54", long 90°10'43", in NE¼NE¼ 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 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 1913 (prior to October 1901 and for 1913, 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).

GAGE.--Water-stage recorder. Datum of gage is 233.70 ft above National Geodetic Vertical Datum of 1929. 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 NGVD of 1929.

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. Telemeter at station.

AVERAGE DISCHARGE.--68 years (1901-12, 1928-85), 4,157 ft<sup>3</sup>/s, 17.80 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 128,000 ft<sup>3</sup>/s, Apr. 17, 1979, gage height, 43.28 ft; minimum daily discharge regulated, 45 ft<sup>3</sup>/s, Oct. 5, 1956, Sept. 18, 1963; minimum daily unregulated, 78 ft<sup>3</sup>/s, Oct. 11, 1954.

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 36½ 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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24,700 ft<sup>3</sup>/s, Feb. 7, gage height, 29.26 ft; minimum discharge, 46 ft<sup>3</sup>/s, Oct. 7, minimum gage height, 2.73 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC    | JAN   | FEB    | MAR    | APR    | MAY   | JUN   | JUL   | AUG   | SEP  |
|-------|-------|-------|--------|-------|--------|--------|--------|-------|-------|-------|-------|------|
| 1     | 195   | 421   | 14600  | 1150  | 9040   | 21400  | 3100   | 5670  | 357   | 334   | 401   | 286  |
| 2     | 189   | 401   | 13400  | 1160  | 12700  | 19500  | 4960   | 4810  | 345   | 387   | 363   | 303  |
| 3     | 186   | 375   | 13700  | 1660  | 15500  | 17000  | 4910   | 5560  | 361   | 326   | 485   | 582  |
| 4     | 184   | 865   | 14500  | 1670  | 15800  | 15100  | 3960   | 6030  | 347   | 325   | 333   | 492  |
| 5     | 164   | 1020  | 16300  | 1630  | 18900  | 13400  | 3660   | 5570  | 338   | 325   | 290   | 332  |
| 6     | 147   | 1230  | 14600  | 1600  | 22000  | 11600  | 4300   | 3180  | 335   | 325   | 857   | 312  |
| 7     | 113   | 957   | 12700  | 1440  | 24100  | 9500   | 4880   | 2450  | 343   | 325   | 602   | 300  |
| 8     | 215   | 946   | 11100  | 1030  | 23400  | 7320   | 4900   | 3420  | 360   | 325   | 363   | 284  |
| 9     | 303   | 946   | 8890   | 999   | 22100  | 5210   | 4440   | 3980  | 345   | 325   | 312   | 294  |
| 10    | 412   | 980   | 7000   | 1010  | 19800  | 3510   | 3600   | 3530  | 334   | 325   | 300   | 277  |
| 11    | 208   | 1010  | 5520   | 1010  | 21200  | 2350   | 2810   | 2220  | 343   | 325   | 305   | 277  |
| 12    | 176   | 1050  | 4030   | 991   | 22400  | 1800   | 2140   | 1220  | 396   | 386   | 294   | 273  |
| 13    | 189   | 1510  | 2580   | 986   | 22500  | 1300   | 1230   | 1110  | 356   | 344   | 285   | 270  |
| 14    | 250   | 1640  | 1800   | 853   | 21900  | 1120   | 1440   | 630   | 339   | 382   | 330   | 265  |
| 15    | 202   | 1610  | 1740   | 419   | 20700  | 1260   | 1440   | 549   | 346   | 445   | 411   | 268  |
| 16    | 998   | 3580  | 1720   | 540   | 17100  | 1630   | 1670   | 485   | 337   | 686   | 3590  | 267  |
| 17    | 391   | 4720  | 1700   | 2410  | 14100  | 1130   | 1800   | 453   | 336   | 338   | 2060  | 267  |
| 18    | 211   | 5670  | 1840   | 2390  | 12400  | 1070   | 2390   | 447   | 533   | 297   | 437   | 264  |
| 19    | 199   | 5010  | 2270   | 2250  | 10800  | 1080   | 2770   | 431   | 386   | 290   | 358   | 266  |
| 20    | 1970  | 3800  | 2130   | 2190  | 8950   | 2210   | 2300   | 422   | 350   | 290   | 321   | 264  |
| 21    | 6490  | 3380  | 1680   | 2160  | 7140   | 3080   | 2230   | 483   | 341   | 279   | 316   | 266  |
| 22    | 11200 | 2320  | 1200   | 2140  | 5480   | 1370   | 1840   | 460   | 344   | 311   | 313   | 272  |
| 23    | 14300 | 1230  | 1070   | 2140  | 4080   | 1150   | 3040   | 415   | 335   | 730   | 305   | 290  |
| 24    | 12500 | 551   | 1050   | 2150  | 10400  | 1120   | 4500   | 404   | 339   | 557   | 298   | 283  |
| 25    | 10200 | 358   | 1050   | 2160  | 14400  | 1170   | 4840   | 402   | 333   | 536   | 310   | 281  |
| 26    | 7790  | 518   | 1030   | 2150  | 19000  | 1800   | 5630   | 387   | 334   | 307   | 326   | 452  |
| 27    | 5800  | 5020  | 1020   | 1900  | 20800  | 1800   | 7090   | 381   | 325   | 292   | 301   | 287  |
| 28    | 3870  | 9380  | 1010   | 1960  | 21000  | 3230   | 7930   | 375   | 333   | 294   | 298   | 276  |
| 29    | 2750  | 12900 | 1000   | 1720  | ---    | 2380   | 7500   | 372   | 320   | 286   | 293   | 275  |
| 30    | 1580  | 15300 | 1000   | 2590  | ---    | 2280   | 6280   | 366   | 320   | 283   | 294   | 424  |
| 31    | 431   | ---   | 1020   | 6290  | ---    | 3300   | ---    | 356   | ---   | 333   | 290   | ---  |
| TOTAL | 83813 | 88698 | 164250 | 54748 | 457690 | 161170 | 113580 | 56568 | 10511 | 11313 | 16041 | 9249 |
| MEAN  | 2704  | 2957  | 5298   | 1766  | 16350  | 5199   | 3786   | 1825  | 350   | 365   | 517   | 308  |
| MAX   | 14300 | 15300 | 16300  | 6290  | 24100  | 21400  | 7930   | 6030  | 533   | 730   | 3590  | 582  |
| MIN   | 113   | 358   | 1000   | 419   | 4080   | 1070   | 1230   | 356   | 320   | 279   | 285   | 264  |
| CFSM  | .85   | .93   | 1.67   | .56   | 5.16   | 1.64   | 1.19   | .58   | .11   | .12   | .16   | .10  |
| IN.   | .98   | 1.04  | 1.93   | .64   | 5.37   | 1.89   | 1.33   | .66   | .12   | .13   | .19   | .11  |

CAL YR 1984 TOTAL 1593746 MEAN 4354 MAX 20800 MIN 47 CFSM 1.37 IN 18.70  
WTR YR 1985 TOTAL 1227631 MEAN 3363 MAX 24100 MIN 113 CFSM 1.06 IN 14.40

## PEARL RIVER BASIN

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02486000 PEARL RIVER AT JACKSON, MS--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY         | OCT    | NOV     | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1           | 3.49   | 4.27    | 25.37  | 6.27   | 20.40  | 28.30  | 10.76  | 15.62  | 3.71   | 3.62   | 3.98   | 3.56   |
| 2           | 3.47   | 4.30    | 24.56  | 6.29   | 23.90  | 27.67  | 14.35  | 14.07  | 3.66   | 3.82   | 3.85   | 3.62   |
| 3           | 3.46   | 4.21    | 24.80  | 7.57   | 25.99  | 26.77  | 14.25  | 15.41  | 3.72   | 3.59   | 4.24   | 4.55   |
| 4           | 3.44   | 5.79    | 25.36  | 7.61   | 26.17  | 25.70  | 12.48  | 16.23  | 3.67   | 3.59   | 3.74   | 4.29   |
| 5           | 3.35   | 6.24    | 26.39  | 7.51   | 27.46  | 24.53  | 11.90  | 15.44  | 3.64   | 3.59   | 3.57   | 3.73   |
| 6           | 3.27   | 6.80    | 25.38  | 7.44   | 28.46  | 23.00  | 13.13  | 10.89  | 3.63   | 3.59   | 5.17   | 3.66   |
| 7           | 3.08   | 6.06    | 24.00  | 7.03   | 29.09  | 20.95  | 14.21  | 9.38   | 3.66   | 3.59   | 4.64   | 3.61   |
| 8           | 3.58   | 6.03    | 22.55  | 5.94   | 28.89  | 18.38  | 14.25  | 11.44  | 3.72   | 3.59   | 3.85   | 3.55   |
| 9           | 3.93   | 6.03    | 20.30  | 5.86   | 28.50  | 14.79  | 13.40  | 12.52  | 3.66   | 3.59   | 3.66   | 3.59   |
| 10          | 4.31   | 6.13    | 17.85  | 5.88   | 27.76  | 11.60  | 11.78  | 11.64  | 3.62   | 3.59   | 3.61   | 3.52   |
| 11          | 3.54   | 6.21    | 15.35  | 5.89   | 28.23  | 9.17   | 10.18  | 8.87   | 3.65   | 3.59   | 3.63   | 3.52   |
| 12          | 3.41   | 6.33    | 12.62  | 5.84   | 28.58  | 7.92   | 8.71   | 6.41   | 3.85   | 3.81   | 3.59   | 3.51   |
| 13          | 3.46   | 7.53    | 9.66   | 5.82   | 28.61  | 6.67   | 6.47   | 6.10   | 3.70   | 3.66   | 3.55   | 3.49   |
| 14          | 3.72   | 7.86    | 7.92   | 5.43   | 28.45  | 6.21   | 6.99   | 4.64   | 3.64   | 3.79   | 3.72   | 3.47   |
| 15          | 3.52   | 7.77    | 7.77   | 4.05   | 28.06  | 6.56   | 7.02   | 4.38   | 3.67   | 4.02   | 4.02   | 3.49   |
| 16          | 5.99   | 12.01   | 7.72   | 4.39   | 26.74  | 7.50   | 7.61   | 4.16   | 3.63   | 4.87   | 11.54  | 3.48   |
| 17          | 4.23   | 14.12   | 7.68   | 9.31   | 25.02  | 6.22   | 7.92   | 4.05   | 3.63   | 3.76   | 8.42   | 3.48   |
| 18          | 3.56   | 15.74   | 8.00   | 9.27   | 23.73  | 6.06   | 9.27   | 4.03   | 4.31   | 3.60   | 4.11   | 3.47   |
| 19          | 3.51   | 14.60   | 9.00   | 8.97   | 22.21  | 6.09   | 10.10  | 3.98   | 3.81   | 3.57   | 3.83   | 3.48   |
| 20          | 7.84   | 12.48   | 8.68   | 8.83   | 20.37  | 8.77   | 9.08   | 3.94   | 3.68   | 3.57   | 3.69   | 3.47   |
| 21          | 17.06  | 11.67   | 7.63   | 8.76   | 18.09  | 10.68  | 8.91   | 4.15   | 3.65   | 3.53   | 3.67   | 3.48   |
| 22          | 22.58  | 9.42    | 6.42   | 8.71   | 15.27  | 6.85   | 8.01   | 4.08   | 3.66   | 3.65   | 3.66   | 3.50   |
| 23          | 25.21  | 6.79    | 6.06   | 8.71   | 12.71  | 6.28   | 10.62  | 3.92   | 3.62   | 5.02   | 3.63   | 3.57   |
| 24          | 23.77  | 4.81    | 6.02   | 8.74   | 21.60  | 6.18   | 13.50  | 3.88   | 3.64   | 4.46   | 3.60   | 3.54   |
| 25          | 21.60  | 4.15    | 6.00   | 8.75   | 25.18  | 6.33   | 14.13  | 3.87   | 3.62   | 4.40   | 3.65   | 3.54   |
| 26          | 18.98  | 4.66    | 5.95   | 8.73   | 27.49  | 7.92   | 15.53  | 3.82   | 3.62   | 3.64   | 3.71   | 4.16   |
| 27          | 15.93  | 14.23   | 5.91   | 8.16   | 28.10  | 7.84   | 18.01  | 3.79   | 3.59   | 3.58   | 3.62   | 3.56   |
| 28          | 12.59  | 20.80   | 5.90   | 8.28   | 28.16  | 11.05  | 19.26  | 3.77   | 3.62   | 3.59   | 3.60   | 3.52   |
| 29          | 10.36  | 24.13   | 5.87   | 7.72   | ---    | 9.26   | 18.66  | 3.76   | 3.57   | 3.56   | 3.59   | 3.51   |
| 30          | 7.67   | 25.84   | 5.87   | 9.62   | ---    | 9.03   | 16.65  | 3.74   | 3.57   | 3.54   | 3.59   | 4.06   |
| 31          | 4.37   | ---     | 5.92   | 16.68  | ---    | 11.18  | ---    | 3.70   | ---    | 3.73   | 3.57   | ---    |
| TOTAL       | 258.28 | 287.01  | 398.51 | 238.06 | 703.22 | 385.46 | 357.14 | 225.68 | 110.42 | 117.10 | 130.30 | 108.98 |
| MEAN        | 8.33   | 9.57    | 12.86  | 7.68   | 25.12  | 12.43  | 11.90  | 7.28   | 3.68   | 3.78   | 4.20   | 3.63   |
| MAX         | 25.21  | 25.84   | 26.39  | 16.68  | 29.09  | 28.30  | 19.26  | 16.23  | 4.31   | 5.02   | 11.54  | 4.55   |
| MIN         | 3.08   | 4.15    | 5.87   | 4.05   | 12.71  | 6.06   | 6.47   | 3.70   | 3.57   | 3.53   | 3.55   | 3.47   |
| CAL YR 1984 | TOTAL  | 4092.12 | MEAN   | 11.18  | MAX    | 28.45  | MIN    | 3.08   |        |        |        |        |
| WTR YR 1985 | TOTAL  | 3320.16 | MEAN   | 9.10   | MAX    | 29.09  | MIN    | 3.08   |        |        |        |        |

## PEARL RIVER BASIN

02488000 PEARL RIVER AT ROCKPORT, MS

LOCATION.--Lat 31°47'25", long 90°08'35", in SW¼ 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.--June 1939 to September 1951, October 1984 to September 1985.

GAGE.--Water-stage recorder. Datum of gage is 180.19 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Oct. 21-26, Dec. 20 to Jan. 15 and Jan. 24-28. Records fair except for estimated daily discharges, which are poor. Telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54,600 ft<sup>3</sup>/s, Feb. 20, 1946; gage height, 34.31 ft; minimum discharge, 267 ft<sup>3</sup>/s, Oct. 25-31, 1943; gage height 4.11 ft, Oct. 25-28, 1943.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 1979, reached a gage height of 42.83 ft gage datum, from flood-marks.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 18,000 ft<sup>3</sup>/s, and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Oct. 22 | 1345 | 28,200                            | 26.04               | Feb. 12 | 1730 | *29,200                           | *26.46              |
| Dec. 4  | 0700 | 20,300                            | 22.37               | Mar. 2  | 0745 | 26,700                            | 25.39               |

Minimum discharge, 465 ft<sup>3</sup>/s, Sept. 22, gage height 6.61 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT   | NOV    | DEC    | JAN   | FEB    | MAR    | APR    | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|--------|--------|-------|--------|--------|--------|-------|-------|-------|-------|-------|
| 1     | ---   | 2630   | 16700  | 2300  | 14300  | 25300  | 8370   | 10800 | 584   | 637   | 703   | 514   |
| 2     | ---   | 3310   | 17100  | 3000  | 17500  | 26500  | 7130   | 9400  | 572   | 587   | 790   | 501   |
| 3     | ---   | 4750   | 19300  | 2780  | 17000  | 25200  | 7220   | 7440  | 562   | 586   | 878   | 713   |
| 4     | ---   | 3380   | 20200  | 2600  | 17100  | 23200  | 6960   | 7080  | 544   | 633   | 873   | 1060  |
| 5     | ---   | 2810   | 19900  | 2900  | 22900  | 20900  | 6130   | 7200  | 548   | 595   | 921   | 1170  |
| 6     | ---   | 2490   | 19400  | 2890  | 26700  | 18500  | 6420   | 6860  | 547   | 577   | 760   | 925   |
| 7     | ---   | 2480   | 18100  | 2750  | 27000  | 15900  | 6820   | 5010  | 531   | 563   | 950   | 747   |
| 8     | ---   | 2280   | 16300  | 2550  | 25900  | 13300  | 6880   | 3530  | 541   | 547   | 1870  | 1630  |
| 9     | ---   | 2050   | 14200  | 2400  | 24600  | 10700  | 6600   | 4040  | 545   | 543   | 1300  | 1770  |
| 10    | ---   | 1960   | 12000  | 2100  | 23000  | 8150   | 6070   | 4620  | 580   | 530   | 898   | 994   |
| 11    | ---   | 1900   | 9810   | 1900  | 26000  | 6150   | 5250   | 4440  | 641   | 644   | 750   | 724   |
| 12    | 1040  | 1860   | 7910   | 1400  | 29000  | 4770   | 4400   | 3320  | 573   | 935   | 682   | 609   |
| 13    | 813   | 1830   | 6300   | 1380  | 28500  | 3970   | 3740   | 2160  | 575   | 809   | 648   | 569   |
| 14    | 620   | 2100   | 4750   | 1300  | 26500  | 3440   | 2970   | 1710  | 616   | 849   | 661   | 536   |
| 15    | 642   | 2400   | 3660   | 1560  | 24700  | 3000   | 3500   | 1450  | 579   | 750   | 696   | 511   |
| 16    | 642   | 4750   | 3310   | 1290  | 23000  | 2900   | 3500   | 1070  | 559   | 888   | 4560  | 496   |
| 17    | 1180  | 9220   | 3180   | 2240  | 21600  | 3220   | 3150   | 902   | 551   | 1450  | 8430  | 494   |
| 18    | 3010  | 8320   | 3080   | 5080  | 19600  | 2900   | 3040   | 809   | 606   | 1330  | 5700  | 485   |
| 19    | 2300  | 8230   | 3080   | 4970  | 17000  | 2580   | 3390   | 752   | 2600  | 838   | 2450  | 477   |
| 20    | 1640  | 7740   | 3300   | 4100  | 14300  | 2560   | 3780   | 724   | 1600  | 687   | 1260  | 474   |
| 21    | 12000 | 6300   | 3150   | 3580  | 11900  | 4520   | 3500   | 712   | 833   | 652   | 912   | 474   |
| 22    | 27700 | 5350   | 2900   | 3370  | 9940   | 6690   | 3240   | 768   | 680   | 701   | 763   | 474   |
| 23    | 24500 | 4240   | 2600   | 3240  | 8080   | 5260   | 2950   | 827   | 603   | 1170  | 680   | 512   |
| 24    | 20000 | 2980   | 2350   | 3220  | 12000  | 3790   | 3860   | 778   | 564   | 2580  | 635   | 578   |
| 25    | 16300 | 2050   | 2120   | 3200  | 21100  | 3320   | 5940   | 712   | 595   | 2610  | 972   | 558   |
| 26    | 13000 | 1460   | 2010   | 3150  | 25900  | 3060   | 6480   | 669   | 1040  | 1880  | 965   | 853   |
| 27    | 11400 | 5180   | 1950   | 4000  | 25700  | 3400   | 9230   | 648   | 946   | 1190  | 732   | 993   |
| 28    | 9060  | 15300  | 1920   | 6120  | 24600  | 3900   | 9870   | 630   | 751   | 861   | 638   | 804   |
| 29    | 6800  | 16400  | 1900   | 5850  | ---    | 5170   | 10600  | 616   | 832   | 743   | 584   | 610   |
| 30    | 5090  | 15900  | 1900   | 4610  | ---    | 4590   | 9980   | 602   | 753   | 690   | 556   | 619   |
| 31    | 3870  | ---    | 2050   | 5610  | ---    | 6000   | ---    | 597   | ---   | 655   | 534   | ---   |
| TOTAL | ---   | 151650 | 246430 | 97440 | 585420 | 272840 | 170970 | 90876 | 22051 | 28710 | 43751 | 21874 |
| MEAN  | ---   | 5055   | 7949   | 3143  | 20910  | 8801   | 5699   | 2931  | 735   | 926   | 1411  | 729   |
| MAX   | ---   | 16400  | 20200  | 6120  | 29000  | 26500  | 10600  | 10800 | 2600  | 2610  | 8430  | 1770  |
| MIN   | ---   | 1460   | 1900   | 1290  | 8080   | 2560   | 2950   | 597   | 531   | 530   | 534   | 474   |
| CFSM  | ---   | 1.11   | 1.75   | .69   | 4.59   | 1.93   | 1.25   | .64   | .16   | .20   | .31   | .16   |
| IN.   | ---   | 1.24   | 2.01   | .80   | 4.78   | 2.23   | 1.40   | .74   | .18   | .23   | .36   | .18   |



## PEARL RIVER BASIN

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02488000 PEARL RIVER AT ROCKPORT, MS--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT   | NOV    | DEC   | JAN   | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------|-------|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1     | ---   | 9.45   | 20.38 | ---   | 18.86  | 24.80  | 15.00  | 16.57  | 7.00   | 6.99   | 6.96   | 6.78   |
| 2     | ---   | 10.14  | 20.60 | ---   | 20.80  | 25.33  | 13.79  | 15.47  | 6.97   | 6.90   | 7.10   | 6.74   |
| 3     | ---   | 11.57  | 21.81 | ---   | 20.54  | 24.77  | 13.86  | 13.89  | 6.95   | 6.89   | 7.24   | 7.11   |
| 4     | ---   | 10.25  | 22.30 | ---   | 20.58  | 23.85  | 13.57  | 13.59  | 6.91   | 6.97   | 7.23   | 7.70   |
| 5     | ---   | 9.66   | 22.13 | ---   | 23.65  | 22.69  | 12.78  | 13.69  | 6.91   | 6.90   | 7.30   | 7.84   |
| 6     | ---   | 9.30   | 21.90 | ---   | 25.43  | 21.37  | 13.03  | 13.40  | 6.91   | 6.87   | 7.03   | 7.47   |
| 7     | ---   | 9.30   | 21.18 | ---   | 25.56  | 19.90  | 13.39  | 11.94  | 6.88   | 6.84   | 7.32   | 7.18   |
| 8     | ---   | 9.06   | 20.11 | ---   | 25.05  | 18.29  | 13.44  | 10.67  | 6.89   | 6.80   | 8.60   | 8.44   |
| 9     | ---   | 8.78   | 18.89 | ---   | 24.49  | 16.46  | 13.17  | 11.16  | 6.90   | 6.78   | 7.85   | 8.63   |
| 10    | ---   | 8.68   | 17.42 | ---   | 23.77  | 14.47  | 12.73  | 11.65  | 6.96   | 6.78   | 7.23   | 7.57   |
| 11    | ---   | 8.60   | 15.79 | ---   | 25.09  | 12.79  | 12.03  | 11.51  | 7.06   | 6.96   | 6.99   | 7.12   |
| 12    | 7.43  | 8.55   | 14.28 | ---   | 26.37  | 11.59  | 11.27  | 10.49  | 6.94   | 7.45   | 6.86   | 6.92   |
| 13    | 7.06  | 8.52   | 12.93 | ---   | 26.18  | 10.84  | 10.65  | 9.22   | 6.94   | 7.24   | 6.80   | 6.84   |
| 14    | 6.73  | 8.84   | 11.62 | ---   | 25.32  | 10.32  | 9.87   | 8.68   | 7.01   | 7.30   | 6.81   | 6.77   |
| 15    | 6.77  | 9.20   | 10.61 | 8.48  | 24.53  | 9.86   | 10.42  | 8.35   | 6.94   | 7.13   | 6.87   | 6.72   |
| 16    | 6.77  | 11.45  | 10.27 | 8.09  | 23.73  | 9.76   | 10.44  | 7.80   | 6.90   | 7.35   | 11.14  | 6.69   |
| 17    | 7.59  | 15.33  | 10.13 | 9.24  | 23.01  | 10.10  | 10.09  | 7.56   | 6.88   | 8.18   | 14.70  | 6.68   |
| 18    | 9.86  | 14.62  | 10.04 | 12.00 | 21.99  | 9.76   | 9.98   | 7.42   | 6.98   | 8.00   | 12.46  | 6.66   |
| 19    | 9.07  | 14.54  | 10.05 | 11.90 | 20.54  | 9.82   | 10.36  | 7.33   | 9.64   | 7.25   | 9.49   | 6.64   |
| 20    | 8.27  | 14.14  | 10.28 | 11.17 | 18.92  | 9.79   | 10.76  | 7.29   | 8.46   | 7.00   | 8.03   | 6.63   |
| 21    | 15.95 | 12.92  | ---   | 10.66 | 17.38  | 11.34  | 10.49  | 7.27   | 7.36   | 6.92   | 7.51   | 6.63   |
| 22    | 25.85 | 12.11  | ---   | 10.43 | 15.89  | 13.25  | 10.23  | 7.36   | 7.10   | 7.01   | 7.26   | 6.63   |
| 23    | ---   | 11.09  | ---   | 10.28 | 14.41  | 12.02  | 9.94   | 7.46   | 6.95   | 7.70   | 7.11   | 6.69   |
| 24    | ---   | 9.84   | ---   | 10.25 | 17.21  | 10.67  | 10.84  | 7.37   | 6.88   | 9.53   | 7.03   | 6.82   |
| 25    | ---   | 8.79   | ---   | ---   | 22.74  | 10.20  | 12.64  | 7.25   | 6.93   | 9.55   | 7.57   | 6.78   |
| 26    | 18.11 | 8.03   | ---   | ---   | 25.07  | 9.93   | 13.07  | 7.17   | 7.68   | 8.68   | 7.58   | 7.27   |
| 27    | 16.97 | 11.47  | ---   | ---   | 24.97  | 10.28  | 15.33  | 7.14   | 7.52   | 7.75   | 7.19   | 7.51   |
| 28    | 15.20 | 19.55  | ---   | 12.77 | 24.48  | 10.77  | 15.84  | 7.10   | 7.20   | 7.24   | 7.02   | 7.20   |
| 29    | 13.35 | 20.18  | ---   | 12.55 | ---    | 11.95  | 16.38  | 7.07   | 7.33   | 7.04   | 6.92   | 6.86   |
| 30    | 11.88 | 19.93  | ---   | 11.47 | ---    | 11.43  | 15.92  | 7.04   | 7.20   | 6.94   | 6.86   | 6.87   |
| 31    | 10.74 | ---    | ---   | 12.32 | ---    | 12.68  | ---    | 7.02   | ---    | 6.88   | 6.81   | ---    |
| TOTAL | ---   | 343.89 | ---   | ---   | 626.56 | 441.08 | 371.31 | 296.93 | 215.18 | 227.82 | 242.87 | 212.39 |
| MEAN  | ---   | 11.46  | ---   | ---   | 22.38  | 14.23  | 12.38  | 9.58   | 7.17   | 7.35   | 7.83   | 7.08   |
| MAX   | ---   | 20.18  | ---   | ---   | 26.37  | 25.33  | 16.38  | 16.57  | 9.64   | 9.55   | 14.70  | 8.63   |
| MIN   | ---   | 8.03   | ---   | ---   | 14.41  | 9.76   | 9.87   | 7.02   | 6.88   | 6.78   | 6.80   | 6.63   |

## PEARL RIVER BASIN

02488500 PEARL RIVER NEAR MONTICELLO, MS

LOCATION.--Lat 31°33'12", long 90°05'16", in SW¼ 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 National Geodetic Vertical Datum of 1929 (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. National Weather Service telemeter at station.

AVERAGE DISCHARGE.--47 years, 6,807 ft<sup>3</sup>/s, 18.51 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 122,000 ft<sup>3</sup>/s, Apr. 20, 1979, gage height, 34.08 ft; minimum, 269 ft<sup>3</sup>/s, Oct. 24, 1963.

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<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|---------|------|-----------------------------------|---------------------|--------|------|-----------------------------------|---------------------|
| Oct. 24 | 0115 | *33,500                           | *24.43              | Mar. 2 | 1445 | 27,300                            | 23.01               |
| Feb. 13 | 0615 | 28,600                            | 23.35               |        |      |                                   |                     |

Minimum discharge, 548 ft<sup>3</sup>/s, Oct. 2, 3, 5, gage height, 5.25 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 1     | 565    | 3390   | 15600  | 2310   | 12900  | 25500  | 8850   | 10800  | 826   | 865   | 798   | 816   |
| 2     | 553    | 4020   | 15900  | 3290   | 16600  | 27100  | 8800   | 11000  | 819   | 794   | 814   | 790   |
| 3     | 551    | 5290   | 16700  | 2870   | 17000  | 26500  | 7480   | 8860   | 800   | 763   | 888   | 796   |
| 4     | 553    | 4280   | 18400  | 2740   | 16500  | 24700  | 7440   | 7240   | 788   | 763   | 909   | 1080  |
| 5     | 552    | 3240   | 20200  | 3070   | 20100  | 22500  | 6820   | 7070   | 776   | 770   | 909   | 1250  |
| 6     | 552    | 2770   | 20200  | 3050   | 24900  | 20300  | 6440   | 7040   | 775   | 760   | 920   | 1270  |
| 7     | 552    | 2540   | 19000  | 2920   | 26200  | 18000  | 6790   | 7180   | 765   | 751   | 1120  | 1200  |
| 8     | 648    | 2520   | 17400  | 2810   | 25800  | 15600  | 6850   | 4340   | 762   | 746   | 1660  | 1410  |
| 9     | 1150   | 2290   | 15600  | 2520   | 24700  | 12900  | 6750   | 3820   | 761   | 733   | 1680  | 2660  |
| 10    | 1400   | 2130   | 13500  | 2160   | 23500  | 9900   | 6350   | 4340   | 762   | 727   | 1190  | 1950  |
| 11    | 1140   | 2020   | 11100  | 2040   | 24600  | 7270   | 5740   | 4630   | 804   | 754   | 915   | 1260  |
| 12    | 1040   | 1970   | 8860   | 2010   | 27600  | 5450   | 4930   | 4020   | 822   | 916   | 838   | 999   |
| 13    | 1100   | 1950   | 6960   | 2010   | 28400  | 4380   | 4260   | 2940   | 781   | 983   | 770   | 898   |
| 14    | 895    | 1990   | 5340   | 1990   | 27400  | 3840   | 3660   | 2120   | 781   | 945   | 753   | 854   |
| 15    | 1110   | 2300   | 4060   | 1950   | 25600  | 3280   | 3150   | 1870   | 781   | 953   | 808   | 818   |
| 16    | 1080   | 3510   | 3430   | 1860   | 23700  | 3000   | 3810   | 1560   | 765   | 1070  | 6010  | 792   |
| 17    | 1380   | 8360   | 3230   | 3060   | 22000  | 3100   | 3430   | 1260   | 751   | 1480  | 9490  | 776   |
| 18    | 2440   | 8760   | 3100   | 4800   | 20600  | 3170   | 3160   | 1140   | 774   | 1730  | 7840  | 770   |
| 19    | 2850   | 8360   | 3010   | 5320   | 18800  | 2770   | 3130   | 1050   | 1420  | 1280  | 4000  | 760   |
| 20    | 2110   | 8170   | 3170   | 4590   | 16400  | 2730   | 3520   | 993    | 2520  | 946   | 2090  | 753   |
| 21    | 5390   | 6760   | 3430   | 3900   | 13800  | 5140   | 3720   | 968    | 1390  | 814   | 1430  | 746   |
| 22    | 24700  | 5560   | 3220   | 3560   | 11400  | 6680   | 3390   | 984    | 988   | 816   | 1180  | 741   |
| 23    | 32200  | 4620   | 2830   | 3400   | 9190   | 6420   | 3210   | 1020   | 862   | 1090  | 1050  | 808   |
| 24    | 31100  | 3550   | 2390   | 3330   | 9770   | 4580   | 3080   | 1060   | 802   | 2060  | 962   | 936   |
| 25    | 24100  | 2620   | 2170   | 3340   | 18900  | 3680   | 4670   | 995    | 779   | 2800  | 948   | 869   |
| 26    | 18200  | 1960   | 2110   | 3320   | 26200  | 3310   | 5970   | 938    | 997   | 2410  | 1340  | 883   |
| 27    | 14200  | 3250   | 2070   | 3350   | 26800  | 3290   | 8490   | 901    | 1140  | 1670  | 1280  | 1200  |
| 28    | 11100  | 12800  | 2050   | 6000   | 25400  | 3850   | 10500  | 864    | 1000  | 1170  | 1070  | 1180  |
| 29    | 8140   | 15700  | 2020   | 6770   | ---    | 4730   | 10300  | 850    | 914   | 952   | 949   | 981   |
| 30    | 5900   | 15700  | 2010   | 5300   | ---    | 5010   | 10700  | 831    | 938   | 852   | 875   | 882   |
| 31    | 4500   | ---    | 2000   | 4950   | ---    | 5570   | ---    | 820    | ---   | 822   | 842   | ---   |
| TOTAL | 201751 | 152380 | 251060 | 104590 | 584760 | 294250 | 175390 | 102504 | 27743 | 34185 | 56328 | 31128 |
| MEAN  | 6508   | 5079   | 8099   | 3374   | 20880  | 9492   | 5846   | 3307   | 925   | 1103  | 1817  | 1038  |
| MAX   | 32200  | 15700  | 20200  | 6770   | 28400  | 27100  | 10700  | 11000  | 2520  | 2800  | 9490  | 2660  |
| MIN   | 551    | 1950   | 2000   | 1860   | 9190   | 2730   | 3080   | 820    | 751   | 727   | 753   | 741   |
| CFSM  | 1.30   | 1.02   | 1.62   | .68    | 4.18   | 1.90   | 1.17   | .66    | .19   | .22   | .36   | .21   |
| IN.   | 1.50   | 1.14   | 1.87   | .78    | 4.36   | 2.19   | 1.31   | .76    | .21   | .25   | .42   | .23   |

CAL YR 1984 TOTAL 2495061 MEAN 6817 MAX 40900 MIN 551 CFSM 1.37 IN 18.59  
WTR YR 1985 TOTAL 2016069 MEAN 5523 MAX 32200 MIN 551 CFSM 1.11 IN 15.02

## 02488500 PEARL RIVER NEAR MONTICELLO, MS--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY         | OCT    | NOV     | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1           | 5.29   | 9.18    | 17.74  | 7.96   | 16.15  | 22.38  | 13.50  | 14.85  | 5.91   | 5.89   | 5.73   | 5.72   |
| 2           | 5.26   | 9.80    | 17.92  | 9.08   | 18.33  | 22.95  | 13.46  | 15.01  | 5.90   | 5.74   | 5.77   | 5.66   |
| 3           | 5.26   | 10.91   | 18.40  | 8.62   | 18.55  | 22.74  | 12.54  | 13.51  | 5.85   | 5.67   | 5.92   | 5.67   |
| 4           | 5.26   | 10.03   | 19.30  | 8.47   | 18.29  | 22.11  | 12.51  | 12.38  | 5.82   | 5.67   | 5.97   | 6.23   |
| 5           | 5.26   | 9.02    | 20.22  | 8.85   | 20.12  | 21.28  | 12.08  | 12.27  | 5.79   | 5.68   | 5.97   | 6.52   |
| 6           | 5.26   | 8.51    | 20.19  | 8.83   | 22.18  | 20.27  | 11.80  | 12.24  | 5.78   | 5.66   | 5.99   | 6.56   |
| 7           | 5.26   | 8.25    | 19.59  | 8.68   | 22.62  | 19.09  | 12.06  | 11.63  | 5.76   | 5.64   | 6.34   | 6.45   |
| 8           | 5.48   | 8.22    | 18.77  | 8.56   | 22.49  | 17.74  | 12.10  | 10.15  | 5.75   | 5.63   | 7.24   | 6.78   |
| 9           | 6.54   | 7.94    | 17.75  | 8.22   | 22.13  | 16.15  | 12.03  | 9.69   | 5.74   | 5.60   | 7.27   | 8.45   |
| 10          | 6.95   | 7.74    | 16.52  | 7.77   | 21.65  | 14.23  | 11.74  | 10.17  | 5.75   | 5.59   | 6.48   | 7.55   |
| 11          | 6.52   | 7.59    | 15.04  | 7.61   | 22.08  | 12.39  | 11.27  | 10.44  | 5.83   | 5.65   | 5.97   | 6.52   |
| 12          | 6.34   | 7.52    | 13.50  | 7.58   | 23.06  | 11.04  | 10.61  | 9.90   | 5.87   | 5.99   | 5.81   | 6.05   |
| 13          | 6.44   | 7.49    | 12.17  | 7.57   | 23.29  | 10.13  | 10.02  | 8.85   | 5.77   | 6.12   | 5.66   | 5.84   |
| 14          | 6.05   | 7.54    | 10.95  | 7.55   | 23.01  | 9.62   | 9.45   | 7.93   | 5.77   | 6.04   | 5.62   | 5.75   |
| 15          | 6.46   | 7.95    | 9.83   | 7.50   | 22.43  | 9.07   | 8.93   | 7.61   | 5.77   | 6.05   | 5.74   | 5.67   |
| 16          | 6.40   | 9.24    | 9.23   | 7.37   | 21.76  | 8.77   | 9.60   | 7.18   | 5.73   | 6.28   | 10.90  | 5.61   |
| 17          | 6.89   | 13.16   | 9.02   | 8.81   | 21.08  | 8.88   | 9.23   | 6.71   | 5.69   | 6.97   | 13.95  | 5.58   |
| 18          | 8.36   | 13.43   | 8.88   | 10.49  | 20.39  | 8.96   | 8.94   | 6.51   | 5.74   | 7.36   | 12.80  | 5.55   |
| 19          | 8.84   | 13.14   | 8.78   | 10.93  | 19.47  | 8.51   | 8.91   | 6.37   | 6.82   | 6.65   | 9.84   | 5.53   |
| 20          | 7.98   | 13.01   | 8.96   | 10.31  | 18.18  | 8.46   | 9.32   | 6.28   | 8.41   | 6.04   | 7.82   | 5.51   |
| 21          | 10.39  | 12.03   | 9.21   | 9.68   | 16.71  | 10.77  | 9.51   | 6.24   | 6.86   | 5.77   | 6.88   | 5.49   |
| 22          | 21.96  | 11.13   | 9.01   | 9.36   | 15.21  | 11.97  | 9.18   | 6.27   | 6.16   | 5.77   | 6.46   | 5.48   |
| 23          | 24.18  | 10.34   | 8.58   | 9.19   | 13.74  | 11.78  | 8.99   | 6.33   | 5.91   | 6.31   | 6.22   | 5.62   |
| 24          | 23.92  | 9.34    | 8.07   | 9.12   | 14.11  | 10.30  | 8.85   | 6.40   | 5.78   | 7.76   | 6.05   | 5.88   |
| 25          | 21.86  | 8.34    | 7.79   | 9.13   | 19.45  | 9.47   | 10.36  | 6.28   | 5.72   | 8.70   | 6.02   | 5.74   |
| 26          | 19.17  | 7.51    | 7.70   | 9.11   | 22.63  | 9.09   | 11.45  | 6.16   | 5.97   | 8.24   | 6.71   | 5.76   |
| 27          | 16.94  | 8.76    | 7.66   | 9.14   | 22.82  | 9.08   | 13.25  | 6.09   | 6.43   | 7.26   | 6.62   | 6.35   |
| 28          | 15.02  | 16.06   | 7.63   | 11.44  | 22.35  | 9.64   | 14.67  | 6.01   | 6.17   | 6.46   | 6.23   | 6.32   |
| 29          | 13.00  | 17.83   | 7.59   | 12.04  | ---    | 10.43  | 14.53  | 5.97   | 6.00   | 6.05   | 6.01   | 5.95   |
| 30          | 11.39  | 17.81   | 7.57   | 10.92  | ---    | 10.68  | 14.81  | 5.94   | 6.04   | 5.85   | 5.85   | 5.75   |
| 31          | 10.23  | ---     | 7.56   | 10.60  | ---    | 11.11  | ---    | 5.90   | ---    | 5.79   | 5.78   | ---    |
| TOTAL       | 314.16 | 308.82  | 381.13 | 280.49 | 564.28 | 409.09 | 335.70 | 267.27 | 180.49 | 193.88 | 215.62 | 181.54 |
| MEAN        | 10.13  | 10.29   | 12.29  | 9.05   | 20.15  | 13.20  | 11.19  | 8.62   | 6.02   | 6.25   | 6.96   | 6.05   |
| MAX         | 24.18  | 17.83   | 20.22  | 12.04  | 23.29  | 22.95  | 14.81  | 15.01  | 8.41   | 8.70   | 13.95  | 8.45   |
| MIN         | 5.26   | 7.49    | 7.56   | 7.37   | 13.74  | 8.46   | 8.85   | 5.90   | 5.69   | 5.59   | 5.62   | 5.48   |
| CAL YR 1984 | TOTAL  | 4028.22 | MEAN   | 11.01  | MAX    | 25.07  | MIN    | 5.26   |        |        |        |        |
| WTR YR 1985 | TOTAL  | 3632.47 | MEAN   | 9.95   | MAX    | 24.18  | MIN    | 5.26   |        |        |        |        |

## PEARL RIVER BASIN

02488700 WHITESAND CREEK NEAR OAK VALE, MS

LOCATION.--Lat 31°28'14", long 89°58'25", in SW¼ 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 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.

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

GAGE.--Water-stage recorder. Datum of gage is 182.20 ft, Mississippi State Highway Department datum.

REMARKS.--Estimated daily discharges: Nov. 21-26, Dec. 1-3, 8, 9, Feb. 11-26. Records good except for estimated daily discharges which are poor.

AVERAGE DISCHARGE.--20 years, 203 ft<sup>3</sup>/s, 21.21 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,400 ft<sup>3</sup>/s, Apr. 13, 1974, gage height, 18.76 ft; minimum, 59 ft<sup>3</sup>/s, Sept. 12-16, 1972.

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, 20½ 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) |
|---------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Oct. 24 | 1445 | *6,490                            | *12.15              | No other peak greater than base discharge. |      |                                   |                     |

Minimum daily discharge, 89 ft<sup>3</sup>/s, Aug. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT   | NOV  | DEC  | JAN  | FEB   | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|-------|------|------|------|-------|------|------|------|------|------|------|------|
| 1     | 102   | 221  | 200  | 146  | 568   | 524  | 254  | 156  | 100  | 97   | 93   | 93   |
| 2     | 102   | 356  | 199  | 157  | 454   | 656  | 177  | 175  | 99   | 96   | 95   | 95   |
| 3     | 103   | 506  | 198  | 138  | 269   | 380  | 159  | 135  | 99   | 96   | 97   | 317  |
| 4     | 103   | 291  | 205  | 133  | 241   | 307  | 148  | 123  | 97   | 96   | 93   | 181  |
| 5     | 104   | 235  | 381  | 128  | 622   | 279  | 147  | 117  | 97   | 106  | 91   | 128  |
| 6     | 105   | 222  | 358  | 124  | 1120  | 241  | 218  | 116  | 96   | 104  | 89   | 109  |
| 7     | 104   | 216  | 236  | 123  | 457   | 215  | 171  | 120  | 95   | 101  | 108  | 104  |
| 8     | 112   | 213  | 202  | 122  | 230   | 200  | 145  | 117  | 96   | 97   | 118  | 257  |
| 9     | 169   | 211  | 195  | 121  | 191   | 198  | 131  | 118  | 95   | 95   | 110  | 511  |
| 10    | 138   | 210  | 185  | 121  | 174   | 182  | 125  | 117  | 96   | 102  | 94   | 188  |
| 11    | 130   | 209  | 165  | 120  | 700   | 178  | 122  | 114  | 98   | 100  | 90   | 138  |
| 12    | 119   | 207  | 147  | 117  | 500   | 171  | 130  | 112  | 104  | 120  | 97   | 121  |
| 13    | 112   | 207  | 144  | 116  | 300   | 165  | 191  | 110  | 102  | 99   | 94   | 111  |
| 14    | 110   | 207  | 139  | 116  | 220   | 162  | 157  | 111  | 98   | 93   | 90   | 106  |
| 15    | 121   | 206  | 136  | 116  | 200   | 153  | 153  | 122  | 97   | 108  | 129  | 102  |
| 16    | 125   | 311  | 135  | 124  | 190   | 149  | 140  | 119  | 100  | 319  | 764  | 100  |
| 17    | 596   | 248  | 132  | 292  | 180   | 147  | 127  | 110  | 99   | 175  | 821  | 100  |
| 18    | 284   | 209  | 129  | 250  | 175   | 139  | 121  | 106  | 106  | 148  | 214  | 100  |
| 19    | 188   | 206  | 128  | 169  | 172   | 134  | 117  | 105  | 143  | 113  | 131  | 100  |
| 20    | 179   | 203  | 128  | 143  | 171   | 168  | 115  | 106  | 234  | 106  | 110  | 100  |
| 21    | 274   | 199  | 128  | 130  | 170   | 432  | 113  | 104  | 121  | 104  | 102  | 101  |
| 22    | 777   | 198  | 129  | 126  | 169   | 291  | 111  | 115  | 104  | 102  | 98   | 101  |
| 23    | 900   | 197  | 126  | 128  | 168   | 207  | 110  | 113  | 99   | 133  | 96   | 262  |
| 24    | 4650  | 197  | 125  | 136  | 400   | 172  | 156  | 110  | 97   | 145  | 96   | 312  |
| 25    | 1590  | 196  | 123  | 144  | 1050  | 156  | 143  | 106  | 102  | 157  | 100  | 163  |
| 26    | 487   | 196  | 121  | 132  | 700   | 143  | 136  | 103  | 141  | 119  | 116  | 136  |
| 27    | 330   | 262  | 121  | 143  | 405   | 151  | 266  | 102  | 117  | 107  | 114  | 127  |
| 28    | 277   | 429  | 121  | 378  | 323   | 229  | 192  | 103  | 106  | 102  | 103  | 116  |
| 29    | 248   | 235  | 121  | 250  | ---   | 197  | 162  | 101  | 104  | 99   | 100  | 110  |
| 30    | 233   | 204  | 122  | 184  | ---   | 165  | 172  | 102  | 99   | 95   | 98   | 117  |
| 31    | 226   | ---  | 121  | 195  | ---   | 268  | ---  | 101  | ---  | 94   | 97   | ---  |
| TOTAL | 13098 | 7207 | 5100 | 4822 | 10519 | 7159 | 4609 | 3569 | 3241 | 3628 | 4648 | 4606 |
| MEAN  | 423   | 240  | 165  | 156  | 376   | 231  | 154  | 115  | 108  | 117  | 150  | 154  |
| MAX   | 4650  | 506  | 381  | 378  | 1120  | 656  | 266  | 175  | 234  | 319  | 821  | 511  |
| MIN   | 102   | 196  | 121  | 116  | 168   | 134  | 110  | 101  | 95   | 93   | 89   | 93   |
| CFSM  | 3.25  | 1.85 | 1.27 | 1.20 | 2.89  | 1.78 | 1.19 | .89  | .83  | .90  | 1.15 | 1.19 |
| IN.   | 3.75  | 2.06 | 1.46 | 1.38 | 3.01  | 2.05 | 1.32 | 1.02 | .93  | 1.04 | 1.33 | 1.32 |

|             |       |       |      |     |     |      |     |    |      |      |    |       |
|-------------|-------|-------|------|-----|-----|------|-----|----|------|------|----|-------|
| CAL YR 1984 | TOTAL | 78490 | MEAN | 214 | MAX | 4650 | MIN | 92 | CFSM | 1.65 | IN | 22.46 |
| WTR YR 1985 | TOTAL | 72206 | MEAN | 198 | MAX | 4650 | MIN | 89 | CFSM | 1.52 | IN | 20.66 |

## 02489000 PEARL RIVER NEAR COLUMBIA, MS

LOCATION.--Lat 31°14'14", long 89°50'54", in E½ 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 National Geodetic Vertical Datum of 1929 (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, 18.60 ft, Oct. 25; minimum observed, 1.70 ft, June 5-9, July 5, 9, 11-12, Sept. 2-8.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
INSTANTANEOUS OBSERVATIONS AT 0700

| DAY   | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN   | JUL   | AUG    | SEP   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|-------|
| 1     | 1.80   | 5.90   | 11.50  | 3.40   | 5.70   | 16.50  | 6.50   | 9.30   | 1.90  | 2.00  | 2.00   | 2.40  |
| 2     | 1.70   | 5.60   | 11.50  | 3.60   | 10.20  | 16.80  | 8.20   | 9.20   | 1.90  | 2.00  | 2.00   | 2.30  |
| 3     | 1.70   | 6.20   | 11.70  | 4.40   | 11.90  | 16.70  | 8.00   | 9.40   | 1.80  | 1.90  | 1.90   | 3.00  |
| 4     | 1.70   | 6.80   | 11.90  | 4.00   | 12.20  | 16.60  | 7.30   | 8.20   | 1.80  | 1.80  | 1.90   | 3.20  |
| 5     | 1.70   | 5.90   | 12.80  | 3.70   | 12.20  | 16.20  | 7.30   | 7.20   | 1.80  | 1.70  | 2.00   | 2.90  |
| 6     | 1.70   | 4.70   | 13.70  | 4.00   | 13.50  | 15.50  | 7.00   | 7.10   | 1.70  | 1.80  | 2.00   | 3.10  |
| 7     | 1.70   | 4.20   | 13.80  | 4.00   | 15.00  | 14.70  | 6.90   | 7.10   | 1.70  | 1.80  | 2.30   | 3.00  |
| 8     | 1.70   | 3.90   | 13.40  | 3.90   | 15.50  | 13.60  | 7.00   | 6.60   | 1.70  | 1.80  | 2.20   | 2.80  |
| 9     | 1.90   | 3.80   | 12.70  | 3.70   | 15.70  | 12.50  | 6.90   | 5.40   | 1.70  | 1.70  | 2.60   | 3.40  |
| 10    | 3.10   | 3.60   | 12.00  | 3.60   | 15.50  | 11.20  | 6.80   | 4.90   | 1.80  | 1.80  | 3.00   | 4.60  |
| 11    | 3.20   | 3.50   | 11.00  | 3.30   | 15.40  | 9.60   | 6.60   | 5.20   | 1.80  | 1.70  | 2.50   | 4.10  |
| 12    | 3.00   | 3.30   | 9.80   | 3.00   | 15.60  | 8.00   | 6.10   | 5.40   | 1.90  | 1.70  | 2.50   | 3.10  |
| 13    | 2.60   | 3.20   | 8.50   | 3.00   | 16.20  | 6.80   | 5.70   | 5.00   | 1.90  | 1.80  | 2.40   | 2.70  |
| 14    | 2.60   | 3.10   | 7.40   | 3.00   | 16.50  | 5.90   | 5.30   | 4.30   | 1.80  | 2.00  | 2.30   | 2.40  |
| 15    | 2.50   | 3.10   | 6.30   | 2.90   | 16.50  | 5.40   | 4.80   | 3.70   | 1.80  | 2.00  | 2.20   | 2.30  |
| 16    | 2.50   | 3.30   | 5.30   | 2.90   | 16.20  | 4.90   | 4.40   | 3.40   | 1.80  | 2.20  | 3.30   | 2.20  |
| 17    | 3.10   | 4.40   | 4.70   | 3.30   | 15.60  | 4.60   | 4.80   | 3.00   | 1.80  | 2.90  | 11.70  | 2.10  |
| 18    | 5.10   | 7.50   | 4.50   | 4.50   | 15.00  | 4.50   | 4.50   | 2.60   | 1.80  | 2.90  | 10.40  | 2.10  |
| 19    | 4.60   | 8.00   | 4.40   | 5.50   | 14.40  | 4.60   | 4.20   | 2.40   | 2.00  | 3.10  | 8.70   | 2.00  |
| 20    | 4.40   | 7.80   | 4.20   | 5.90   | 13.70  | 4.30   | 4.20   | 2.30   | 2.10  | 2.80  | 6.20   | 2.00  |
| 21    | 4.20   | 7.70   | 4.20   | 5.30   | 12.70  | 5.10   | 4.50   | 2.20   | 3.90  | 2.30  | 4.50   | 2.00  |
| 22    | 6.00   | 6.90   | 4.50   | 4.70   | 11.50  | 6.60   | 4.60   | 2.20   | 2.90  | 2.10  | 3.60   | 2.00  |
| 23    | 14.10  | 6.40   | 4.40   | 4.40   | 10.10  | 7.00   | 4.30   | 2.20   | 2.30  | 2.20  | 3.10   | 1.90  |
| 24    | 17.00  | 5.40   | 4.00   | 4.30   | 8.90   | 7.10   | 4.50   | 2.20   | 2.00  | 3.00  | 2.80   | 3.30  |
| 25    | 18.60  | 4.70   | 3.70   | 4.30   | 9.30   | 5.80   | 4.90   | 2.10   | 1.90  | 3.40  | 3.30   | 2.90  |
| 26    | 17.70  | 3.90   | 3.40   | 4.30   | 14.40  | 5.00   | 5.70   | 2.10   | 2.10  | 4.20  | 2.90   | 2.50  |
| 27    | 15.00  | 3.30   | 3.30   | 4.20   | 16.10  | 4.60   | 7.10   | 2.00   | 2.00  | 4.00  | 3.00   | 2.30  |
| 28    | 12.10  | 4.30   | 3.30   | 4.80   | 16.60  | 4.70   | 8.50   | 1.90   | 2.40  | 3.20  | 3.20   | 2.40  |
| 29    | 10.10  | 10.00  | 3.20   | 6.70   | ---    | 5.10   | 9.10   | 1.90   | 2.20  | 2.60  | 2.70   | 2.60  |
| 30    | 8.40   | 11.30  | 3.20   | 7.00   | ---    | 5.50   | 9.00   | 1.80   | 2.00  | 2.30  | 2.60   | 2.40  |
| 31    | 6.90   | ---    | 3.10   | 6.10   | ---    | 5.90   | ---    | 1.80   | ---   | 2.10  | 2.40   | ---   |
| TOTAL | 182.40 | 161.70 | 231.40 | 131.70 | 382.10 | 271.30 | 184.70 | 134.10 | 60.20 | 72.80 | 108.20 | 80.00 |
| MEAN  | 5.88   | 5.39   | 7.46   | 4.25   | 13.65  | 8.75   | 6.16   | 4.33   | 2.01  | 2.35  | 3.49   | 2.67  |
| MAX   | 18.60  | 11.30  | 13.80  | 7.00   | 16.60  | 16.80  | 9.10   | 9.40   | 3.90  | 4.20  | 11.70  | 4.60  |
| MIN   | 1.70   | 3.10   | 3.10   | 2.90   | 5.70   | 4.30   | 4.20   | 1.80   | 1.70  | 1.70  | 1.90   | 1.90  |

CAL YR 1984 TOTAL 2470.20 MEAN 6.75 MAX 19.20 MIN 1.70  
WTR YR 1985 TOTAL 2000.60 MEAN 5.48 MAX 18.60 MIN 1.70



## PEARL RIVER BASIN

02489270 CLEAR CREEK NEAR SANDY HOOK, MS

LOCATION.--Lat 31 02 16 , long 89 44 27 , in NE NE sec.19, T.1 N., R.17 W., St. Stephens Meridian, Marion County, Hydrologic Unit 03180004, at bridge on State Highway 43, 3.5 mi east of Sandy Hook.

DRAINAGE AREA.--40.8 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1984 to August 1985 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1984 to October 1985 (discontinued).

WATER TEMPERATURE: October 1984 to October 1985 (discontinued).

INSTRUMENTATION.--Specific conductance-temperature recorder from October 1984 to October 1985.

REMARKS.--Daily values of specific conductance listed as 1000 microsiemens represent 1000 microsiemens or more due to instrument limitations. The water quality may be affected by backwater during periods of high flow on the Pearl River (Feb. 6-21, Feb. 25-Mar. 9, 1985). Interruptions in the record were due to malfunctions of the instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, >1000 microsiemens Sept. 30, 1985; minimum, 27 microsiemens Oct. 30, 1985.

WATER TEMPERATURE: Maximum, 29.0 C June 4, 5, Aug. 10, 1985; minimum, 3.5 C Jan. 22, 1985.

## WATER QUALITY DATA, OCTOBER 1984 TO AUGUST 1985

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>SATUR-<br>ATION | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>AS<br>CACO3) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) |
|-------|------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|-------------------------------------|----------------------------------------------|----------------------------------------|--------------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|
| OCT   |      |                                                 |                                                   |                                |                             |                                     |                                              |                                        |                                                              |                                              |                                                      |                                              |
| 03... | 1615 | 14                                              | 135                                               | 6.5                            | 18.0                        | 12.8                                | 135                                          | 25                                     | 19                                                           | 7.2                                          | 1.6                                                  | 21                                           |
| 23... | 1715 | 116                                             | 147                                               | 5.8                            | 22.0                        | 8.2                                 | --                                           | --                                     | --                                                           | --                                           | --                                                   | 19                                           |
| NOV   |      |                                                 |                                                   |                                |                             |                                     |                                              |                                        |                                                              |                                              |                                                      |                                              |
| 28... | 1715 | 40                                              | 279                                               | 6.2                            | 14.0                        | 10.2                                | 99                                           | --                                     | --                                                           | --                                           | --                                                   | 35                                           |
| MAR   |      |                                                 |                                                   |                                |                             |                                     |                                              |                                        |                                                              |                                              |                                                      |                                              |
| 21... | 1110 | 569                                             | 66                                                | 5.9                            | 15.5                        | --                                  | --                                           | 11                                     | 7                                                            | 3.1                                          | .83                                                  | 7.3                                          |
| MAY   |      |                                                 |                                                   |                                |                             |                                     |                                              |                                        |                                                              |                                              |                                                      |                                              |
| 13... | 1720 | 21                                              | 190                                               | 6.2                            | 23.5                        | --                                  | --                                           | --                                     | --                                                           | --                                           | --                                                   | 25                                           |
| JUL   |      |                                                 |                                                   |                                |                             |                                     |                                              |                                        |                                                              |                                              |                                                      |                                              |
| 25... | 1040 | 50                                              | 375                                               | 5.5                            | 23.0                        | --                                  | --                                           | --                                     | --                                                           | --                                           | --                                                   | 42                                           |
| AUG   |      |                                                 |                                                   |                                |                             |                                     |                                              |                                        |                                                              |                                              |                                                      |                                              |
| 06... | 1430 | 13                                              | 168                                               | 6.5                            | 27.0                        | --                                  | --                                           | --                                     | --                                                           | --                                           | --                                                   | 20                                           |
| 27... | 1200 | 18                                              | 280                                               | 6.2                            | 23.5                        | --                                  | --                                           | --                                     | --                                                           | --                                           | --                                                   | 37                                           |

| DATE  | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LINITY<br>LAB<br>(MG/L<br>AS<br>CACO3) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | BROMIDE<br>DIS-<br>SOLVED<br>(MG/L<br>AS BR) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR) |
|-------|-------------------|-----------------------------------------|-----------------------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|----------------------------------------------|------------------------------------------------------|
| OCT   |                   |                                         |                                                     |                                                 |                                               |                                                     |                                              |                                                                    |                                                     |                                                   |                                              |                                                      |
| 03... | 64                | 2                                       | 1.1                                                 | 6.0                                             | .8                                            | 48                                                  | .31                                          | 112                                                                | .15                                                 | 4.2                                               | 110                                          | 210                                                  |
| 23... | --                | --                                      | --                                                  | --                                              | --                                            | 41                                                  | --                                           | 112                                                                | .15                                                 | 35                                                | --                                           | --                                                   |
| NOV   |                   |                                         |                                                     |                                                 |                                               |                                                     |                                              |                                                                    |                                                     |                                                   |                                              |                                                      |
| 28... | --                | --                                      | --                                                  | --                                              | --                                            | 84                                                  | --                                           | 178                                                                | .24                                                 | 19                                                | --                                           | --                                                   |
| MAR   |                   |                                         |                                                     |                                                 |                                               |                                                     |                                              |                                                                    |                                                     |                                                   |                                              |                                                      |
| 21... | 56                | 1                                       | .90                                                 | 4.0                                             | 3.2                                           | 15                                                  | .10                                          | 46                                                                 | .06                                                 | 71                                                | 65                                           | 67                                                   |
| MAY   |                   |                                         |                                                     |                                                 |                                               |                                                     |                                              |                                                                    |                                                     |                                                   |                                              |                                                      |
| 13... | --                | --                                      | --                                                  | --                                              | --                                            | 51                                                  | --                                           | --                                                                 | --                                                  | --                                                | --                                           | --                                                   |
| JUL   |                   |                                         |                                                     |                                                 |                                               |                                                     |                                              |                                                                    |                                                     |                                                   |                                              |                                                      |
| 25... | --                | --                                      | --                                                  | --                                              | --                                            | 100                                                 | --                                           | --                                                                 | --                                                  | --                                                | --                                           | --                                                   |
| AUG   |                   |                                         |                                                     |                                                 |                                               |                                                     |                                              |                                                                    |                                                     |                                                   |                                              |                                                      |
| 06... | --                | --                                      | --                                                  | --                                              | --                                            | 46                                                  | --                                           | --                                                                 | --                                                  | --                                                | --                                           | --                                                   |
| 27... | --                | --                                      | --                                                  | --                                              | --                                            | 76                                                  | --                                           | 192                                                                | .26                                                 | 9.3                                               | --                                           | --                                                   |

## PEARL RIVER BASIN

02489270 CLEAR CREEK NEAR SANDY HOOK, MS--Continued

SPECIFIC CONDUCTANCE, MICRO SIEMENS PER CENTIMETER AT 25 DEG. C, OCTOBER 1984 TO OCTOBER 1985

| DAY   | MAX      | MIN | MEAN | MAX      | MIN | MEAN | MAX      | MIN | MEAN | MAX     | MIN | MEAN |
|-------|----------|-----|------|----------|-----|------|----------|-----|------|---------|-----|------|
|       | OCTOBER  |     |      | NOVEMBER |     |      | DECEMBER |     |      | JANUARY |     |      |
| 1     | ---      | --- | ---  | 230      | 218 | 225  | 253      | 242 | 245  | 244     | 185 | 209  |
| 2     | ---      | --- | ---  | 253      | 34  | 134  | 243      | 236 | 241  | 222     | 186 | 207  |
| 3     | ---      | --- | ---  | 137      | 34  | 75   | 249      | 235 | 243  | 209     | 181 | 193  |
| 4     | ---      | --- | ---  | 169      | 138 | 152  | 253      | 185 | 235  | 237     | 208 | 219  |
| 5     | ---      | --- | ---  | 183      | 170 | 177  | 179      | 36  | 67   | 202     | 183 | 187  |
| 6     | ---      | --- | ---  | 224      | 184 | 209  | 47       | 42  | 46   | 188     | 183 | 186  |
| 7     | ---      | --- | ---  | 210      | 201 | 205  | 42       | 37  | 39   | 202     | 188 | 191  |
| 8     | ---      | --- | ---  | 218      | 210 | 215  | 70       | 40  | 51   | 204     | 199 | 202  |
| 9     | ---      | --- | ---  | 223      | 216 | 220  | 81       | 71  | 77   | 213     | 198 | 203  |
| 10    | ---      | --- | ---  | 232      | 219 | 224  | ---      | --- | ---  | 207     | 196 | 202  |
| 11    | ---      | --- | ---  | 242      | 225 | 232  | ---      | --- | ---  | 222     | 207 | 212  |
| 12    | ---      | --- | ---  | 246      | 223 | 239  | ---      | --- | ---  | 212     | 209 | 210  |
| 13    | ---      | --- | ---  | 243      | 185 | 218  | ---      | --- | ---  | 218     | 210 | 212  |
| 14    | ---      | --- | ---  | 195      | 97  | 132  | ---      | --- | ---  | 224     | 202 | 212  |
| 15    | ---      | --- | ---  | 115      | 95  | 107  | ---      | --- | ---  | 213     | 209 | 211  |
| 16    | ---      | --- | ---  | 239      | 108 | 148  | ---      | --- | ---  | 217     | 200 | 212  |
| 17    | ---      | --- | ---  | 244      | 230 | 238  | ---      | --- | ---  | 216     | 108 | 148  |
| 18    | ---      | --- | ---  | 275      | 150 | 210  | ---      | --- | ---  | 131     | 117 | 123  |
| 19    | ---      | --- | ---  | 269      | 241 | 261  | ---      | --- | ---  | 153     | 132 | 144  |
| 20    | ---      | --- | ---  | 276      | 261 | 269  | ---      | --- | ---  | 170     | 152 | 161  |
| 21    | ---      | --- | ---  | 261      | 133 | 176  | ---      | --- | ---  | 178     | 170 | 172  |
| 22    | ---      | --- | ---  | 132      | 108 | 122  | ---      | --- | ---  | 183     | 170 | 176  |
| 23    | ---      | --- | ---  | 126      | 105 | 118  | ---      | --- | ---  | 201     | 177 | 190  |
| 24    | 193      | 146 | 170  | 128      | 104 | 118  | ---      | --- | ---  | 206     | 198 | 202  |
| 25    | 184      | 142 | 171  | 140      | 102 | 118  | ---      | --- | ---  | 248     | 208 | 228  |
| 26    | 178      | 166 | 170  | 119      | 107 | 113  | ---      | --- | ---  | 231     | 190 | 210  |
| 27    | 220      | 181 | 203  | 249      | 110 | 148  | 218      | 214 | 217  | 192     | 165 | 186  |
| 28    | 208      | 196 | 200  | 312      | 248 | 271  | 220      | 210 | 216  | 180     | 92  | 116  |
| 29    | 212      | 198 | 207  | 350      | 235 | 325  | 218      | 213 | 216  | 129     | 103 | 117  |
| 30    | 217      | 207 | 215  | 318      | 254 | 279  | 219      | 211 | 217  | 172     | 129 | 144  |
| 31    | 224      | 216 | 221  | ---      | --- | ---  | 241      | 214 | 221  | 169     | 153 | 159  |
| MONTH | 224      | 142 | 195  | 350      | 34  | 189  | ---      | --- | ---  | 248     | 92  | 185  |
|       | FEBRUARY |     |      | MARCH    |     |      | APRIL    |     |      | MAY     |     |      |
| 1     | 195      | 118 | 150  | 100      | 75  | 90   | 201      | 155 | 181  | 235     | 200 | 221  |
| 2     | 142      | 130 | 137  | 90       | 78  | 84   | 158      | 146 | 151  | 267     | 222 | 243  |
| 3     | 171      | 141 | 146  | 111      | 91  | 101  | 168      | 158 | 163  | 257     | 209 | 230  |
| 4     | 161      | 144 | 155  | 139      | 106 | 122  | 175      | 169 | 172  | 208     | 202 | 206  |
| 5     | 161      | 120 | 150  | 143      | 137 | 141  | 194      | 171 | 180  | 201     | 191 | 193  |
| 6     | 138      | 126 | 129  | 142      | 135 | 138  | 188      | 174 | 182  | 191     | 183 | 186  |
| 7     | 140      | 129 | 133  | 134      | 123 | 128  | 203      | 188 | 196  | 191     | 183 | 186  |
| 8     | 153      | 141 | 147  | 120      | 112 | 115  | 191      | 171 | 178  | 214     | 185 | 195  |
| 9     | 176      | 154 | 162  | 121      | 70  | 101  | 174      | 169 | 172  | 296     | 216 | 254  |
| 10    | 172      | 167 | 168  | 177      | 67  | 121  | 178      | 170 | 174  | 252     | 225 | 241  |
| 11    | 201      | 132 | 165  | 176      | 157 | 166  | 185      | 177 | 182  | 223     | 195 | 212  |
| 12    | 162      | 116 | 126  | 175      | 163 | 169  | 183      | 177 | 180  | 452     | 185 | 233  |
| 13    | 149      | 126 | 138  | 176      | 170 | 174  | 202      | 178 | 192  | 437     | 184 | 240  |
| 14    | 166      | 142 | 156  | 179      | 176 | 177  | 229      | 199 | 213  | 185     | 177 | 181  |
| 15    | 170      | 163 | 168  | 179      | 173 | 177  | 212      | 163 | 194  | 182     | 174 | 178  |
| 16    | 181      | 163 | 168  | 183      | 172 | 176  | 180      | 164 | 172  | 178     | 173 | 176  |
| 17    | 199      | 148 | 166  | 235      | 176 | 208  | 174      | 168 | 172  | 174     | 170 | 172  |
| 18    | 180      | 145 | 157  | 231      | 167 | 186  | 176      | 170 | 173  | 175     | 171 | 173  |
| 19    | 169      | 132 | 153  | 210      | 160 | 182  | 176      | 170 | 173  | 172     | 169 | 170  |
| 20    | 177      | 128 | 151  | 182      | 160 | 175  | 176      | 171 | 173  | 169     | 166 | 168  |
| 21    | 154      | 112 | 125  | 164      | 65  | 97   | 176      | 172 | 174  | 169     | 151 | 162  |
| 22    | 270      | 115 | 166  | 192      | 92  | 121  | 177      | 173 | 175  | 187     | 161 | 176  |
| 23    | 170      | 125 | 140  | 142      | 121 | 131  | 180      | 173 | 176  | 193     | 178 | 185  |
| 24    | 205      | 131 | 156  | 153      | 141 | 147  | 206      | 155 | 176  | 221     | 198 | 214  |
| 25    | 195      | 71  | 125  | 162      | 153 | 157  | 350      | 215 | 293  | 220     | 205 | 212  |
| 26    | 71       | 57  | 62   | 169      | 162 | 164  | 343      | 286 | 316  | 214     | 201 | 208  |
| 27    | 94       | 73  | 82   | 170      | 164 | 168  | 317      | 300 | 308  | 201     | 187 | 195  |
| 28    | 95       | 93  | 94   | 243      | 136 | 183  | 346      | 321 | 339  | 186     | 180 | 184  |
| 29    | ---      | --- | ---  | 142      | 130 | 135  | 325      | 249 | 279  | 180     | 171 | 175  |
| 30    | ---      | --- | ---  | 163      | 142 | 155  | 245      | 217 | 225  | 172     | 164 | 168  |
| 31    | ---      | --- | ---  | 182      | 159 | 165  | ---      | --- | ---  | 169     | 159 | 163  |
| MONTH | 270      | 57  | 142  | 243      | 65  | 147  | 350      | 146 | 201  | 452     | 151 | 197  |

## PEARL RIVER BASIN

02489270 CLEAR CREEK NEAR SANDY HOOK, MS--Continued

SPECIFIC CONDUCTANCE, MICRO SIEMENS PER CENTIMETER AT 25 DEG. C, OCTOBER 1984 TO OCTOBER 1985

| DAY   | MAX | MIN     | MEAN | MAX | MIN      | MEAN | MAX | MIN      | MEAN | MAX  | MIN       | MEAN |
|-------|-----|---------|------|-----|----------|------|-----|----------|------|------|-----------|------|
|       |     | JUNE    |      |     | JULY     |      |     | AUGUST   |      |      | SEPTEMBER |      |
| 1     | 165 | 159     | 162  | 181 | 154      | 165  | 207 | 187      | 194  | 213  | 202       | 206  |
| 2     | 163 | 158     | 161  | 168 | 160      | 164  | 197 | 173      | 183  | 213  | 157       | 193  |
| 3     | 163 | 157     | 161  | 166 | 154      | 160  | 183 | 165      | 175  | 220  | 140       | 183  |
| 4     | 162 | 155     | 159  | 170 | 156      | 163  | 178 | 150      | 168  | 242  | 197       | 221  |
| 5     | 161 | 154     | 158  | 167 | 158      | 161  | 177 | 160      | 168  | 208  | 199       | 204  |
| 6     | 161 | 151     | 156  | 161 | 151      | 158  | 181 | 161      | 168  | 245  | 203       | 219  |
| 7     | 158 | 145     | 152  | 193 | 154      | 182  | 167 | 163      | 165  | 285  | 246       | 274  |
| 8     | 155 | 147     | 151  | 245 | 187      | 209  | 172 | 166      | 168  | 268  | 232       | 248  |
| 9     | 160 | 147     | 152  | 245 | 209      | 232  | 171 | 162      | 167  | 259  | 237       | 245  |
| 10    | 165 | 151     | 156  | 227 | 197      | 213  | 172 | 160      | 165  | 239  | 236       | 238  |
| 11    | 154 | 147     | 151  | 217 | 191      | 201  | 169 | 161      | 164  | 240  | 231       | 236  |
| 12    | 170 | 131     | 153  | 199 | 181      | 191  | 168 | 159      | 163  | 230  | 213       | 220  |
| 13    | 169 | 163     | 167  | 198 | 172      | 184  | 167 | 153      | 160  | 212  | 209       | 210  |
| 14    | 180 | 168     | 174  | 202 | 179      | 192  | 172 | 155      | 162  | 215  | 201       | 210  |
| 15    | 175 | 160     | 168  | 187 | 170      | 178  | 253 | 133      | 161  | 200  | 193       | 196  |
| 16    | 175 | 161     | 168  | 174 | 161      | 167  | 329 | 145      | 212  | 192  | 182       | 188  |
| 17    | 201 | 156     | 175  | 168 | 161      | 165  | 221 | 166      | 193  | 191  | 179       | 181  |
| 18    | 205 | 169     | 189  | 173 | 157      | 164  | 191 | 180      | 185  | 185  | 176       | 179  |
| 19    | 205 | 176     | 191  | 173 | 159      | 164  | 233 | 192      | 211  | 176  | 173       | 175  |
| 20    | 213 | 202     | 207  | 166 | 154      | 161  | 230 | 211      | 223  | 175  | 170       | 172  |
| 21    | 230 | 213     | 222  | 202 | 160      | 179  | 214 | 198      | 206  | 172  | 169       | 171  |
| 22    | 232 | 215     | 223  | 185 | 164      | 174  | 198 | 194      | 196  | 170  | 166       | 168  |
| 23    | 216 | 202     | 209  | 189 | 171      | 181  | 195 | 188      | 191  | 197  | 159       | 169  |
| 24    | 201 | 188     | 194  | 266 | 190      | 233  | 199 | 185      | 190  | 381  | 201       | 278  |
| 25    | 188 | 176     | 181  | 427 | 234      | 356  | 267 | 195      | 212  | 209  | 134       | 157  |
| 26    | 193 | 170     | 181  | 372 | 256      | 304  | 314 | 251      | 278  | 195  | 150       | 168  |
| 27    | 190 | 166     | 177  | 255 | 232      | 241  | 312 | 261      | 282  | 212  | 181       | 199  |
| 28    | 167 | 149     | 157  | 256 | 224      | 241  | 259 | 233      | 244  | 201  | 183       | 193  |
| 29    | 191 | 149     | 168  | 229 | 202      | 215  | 233 | 215      | 225  | 244  | 200       | 206  |
| 30    | 190 | 177     | 184  | 219 | 186      | 205  | 218 | 210      | 215  | 1000 | 310       | 835  |
| 31    | --- | ---     | ---  | 203 | 191      | 196  | 214 | 205      | 210  | ---  | ---       | ---  |
| MONTH | 232 | 131     | 174  | 427 | 151      | 197  | 329 | 133      | 194  | 1000 | 134       | 225  |
|       |     | OCTOBER |      |     | NOVEMBER |      |     | DECEMBER |      |      | JANUARY   |      |
| 1     | 421 | 268     | 351  |     |          |      |     |          |      |      |           |      |
| 2     | 278 | 226     | 252  |     |          |      |     |          |      |      |           |      |
| 3     | 223 | 198     | 205  |     |          |      |     |          |      |      |           |      |
| 4     | 215 | 198     | 203  |     |          |      |     |          |      |      |           |      |
| 5     | 216 | 211     | 213  |     |          |      |     |          |      |      |           |      |
| 6     | 212 | 208     | 210  |     |          |      |     |          |      |      |           |      |
| 7     | 207 | 203     | 206  |     |          |      |     |          |      |      |           |      |
| 8     | 209 | 203     | 205  |     |          |      |     |          |      |      |           |      |
| 9     | 203 | 188     | 195  |     |          |      |     |          |      |      |           |      |
| 10    | 204 | 199     | 201  |     |          |      |     |          |      |      |           |      |
| 11    | 205 | 198     | 201  |     |          |      |     |          |      |      |           |      |
| 12    | 202 | 199     | 201  |     |          |      |     |          |      |      |           |      |
| 13    | 204 | 200     | 202  |     |          |      |     |          |      |      |           |      |
| 14    | 201 | 199     | 200  |     |          |      |     |          |      |      |           |      |
| 15    | 199 | 194     | 197  |     |          |      |     |          |      |      |           |      |
| 16    | 200 | 191     | 193  |     |          |      |     |          |      |      |           |      |
| 17    | 232 | 201     | 213  |     |          |      |     |          |      |      |           |      |
| 18    | 308 | 233     | 264  |     |          |      |     |          |      |      |           |      |
| 19    | 308 | 170     | 211  |     |          |      |     |          |      |      |           |      |
| 20    | 191 | 173     | 185  |     |          |      |     |          |      |      |           |      |
| 21    | 190 | 187     | 188  |     |          |      |     |          |      |      |           |      |
| 22    | 189 | 178     | 186  |     |          |      |     |          |      |      |           |      |
| 23    | 191 | 174     | 182  |     |          |      |     |          |      |      |           |      |
| 24    | 190 | 186     | 188  |     |          |      |     |          |      |      |           |      |
| 25    | 190 | 187     | 189  |     |          |      |     |          |      |      |           |      |
| 26    | 196 | 187     | 191  |     |          |      |     |          |      |      |           |      |
| 27    | 199 | 194     | 196  |     |          |      |     |          |      |      |           |      |
| 28    | 302 | 134     | 195  |     |          |      |     |          |      |      |           |      |
| 29    | 128 | 75      | 104  |     |          |      |     |          |      |      |           |      |
| 30    | 75  | 27      | 38   |     |          |      |     |          |      |      |           |      |
| 31    | 39  | 30      | 35   |     |          |      |     |          |      |      |           |      |
| MONTH | 421 | 27      | 194  |     |          |      |     |          |      |      |           |      |

## PEARL RIVER BASIN

02489270 CLEAR CREEK NEAR SANDY HOOK, MS--Continued

TEMPERATURE, WATER (DEG. C), OCTOBER 1984 TO OCTOBER 1985

| DAY   | MAX      | MIN  | MEAN | MAX      | MIN  | MEAN | MAX      | MIN  | MEAN | MAX     | MIN  | MEAN |
|-------|----------|------|------|----------|------|------|----------|------|------|---------|------|------|
|       | OCTOBER  |      |      | NOVEMBER |      |      | DECEMBER |      |      | JANUARY |      |      |
| 1     | ---      | ---  | ---  | 22.5     | 21.0 | 21.5 | 13.5     | 11.5 | 12.5 | 19.0    | 13.5 | 18.0 |
| 2     | ---      | ---  | ---  | 21.5     | 20.0 | 20.5 | 14.5     | 13.0 | 14.0 | 16.5    | 13.5 | 15.0 |
| 3     | ---      | ---  | ---  | 20.0     | 19.0 | 19.5 | 15.5     | 14.0 | 14.5 | 13.0    | 10.0 | 11.5 |
| 4     | ---      | ---  | ---  | 20.0     | 18.5 | 19.0 | 13.5     | 9.5  | 12.0 | 10.0    | 8.5  | 9.5  |
| 5     | ---      | ---  | ---  | 19.5     | 18.0 | 19.0 | 10.0     | 9.0  | 9.5  | 9.5     | 7.5  | 8.5  |
| 6     | ---      | ---  | ---  | 17.5     | 16.0 | 17.0 | 10.5     | 9.5  | 10.0 | 9.5     | 7.5  | 8.5  |
| 7     | ---      | ---  | ---  | 16.0     | 14.5 | 15.5 | 9.5      | 9.0  | 9.0  | 10.5    | 8.0  | 9.5  |
| 8     | ---      | ---  | ---  | 16.5     | 14.5 | 15.5 | 9.5      | 8.0  | 9.0  | 10.5    | 8.0  | 9.5  |
| 9     | ---      | ---  | ---  | 17.0     | 15.0 | 16.5 | 11.0     | 9.0  | 10.0 | 10.5    | 8.0  | 9.5  |
| 10    | ---      | ---  | ---  | 18.0     | 16.5 | 17.5 | 13.0     | 11.0 | 12.0 | 12.5    | 9.5  | 11.0 |
| 11    | ---      | ---  | ---  | 16.5     | 14.5 | 15.5 | 13.5     | 12.0 | 13.0 | 11.5    | 9.5  | 11.0 |
| 12    | ---      | ---  | ---  | 14.5     | 13.0 | 14.0 | 15.0     | 13.5 | 14.5 | 9.5     | 8.5  | 9.0  |
| 13    | ---      | ---  | ---  | 13.5     | 12.0 | 13.0 | 16.5     | 11.0 | 15.0 | 9.0     | 8.0  | 9.0  |
| 14    | ---      | ---  | ---  | 13.5     | 11.0 | 12.5 | 17.0     | 11.0 | 15.0 | 10.5    | 9.0  | 9.5  |
| 15    | ---      | ---  | ---  | 15.0     | 12.5 | 14.0 | 17.5     | 12.0 | 15.0 | 10.0    | 7.5  | 9.0  |
| 16    | ---      | ---  | ---  | 16.0     | 14.5 | 15.0 | 17.5     | 12.5 | 16.0 | 11.0    | 8.0  | 9.5  |
| 17    | ---      | ---  | ---  | 15.5     | 14.0 | 15.0 | 18.0     | 12.5 | 17.0 | 10.5    | 9.5  | 10.0 |
| 18    | ---      | ---  | ---  | 18.0     | 15.5 | 16.5 | 17.5     | 16.5 | 17.0 | 10.0    | 8.5  | 9.5  |
| 19    | ---      | ---  | ---  | 17.5     | 16.0 | 16.5 | 17.5     | 16.5 | 17.0 | 10.0    | 8.0  | 9.0  |
| 20    | ---      | ---  | ---  | 15.5     | 14.0 | 15.0 | 17.5     | 12.5 | 16.5 | 9.0     | 5.5  | 7.5  |
| 21    | ---      | ---  | ---  | 14.0     | 12.5 | 13.0 | 17.5     | 12.5 | 15.0 | 5.5     | 4.0  | 5.0  |
| 22    | ---      | ---  | ---  | 12.5     | 11.0 | 12.0 | 18.0     | 12.5 | 15.5 | 6.0     | 3.5  | 5.0  |
| 23    | ---      | ---  | ---  | 11.5     | 10.0 | 11.0 | 16.5     | 15.5 | 16.0 | 6.5     | 4.0  | 5.5  |
| 24    | 22.0     | 21.5 | 22.0 | 11.5     | 9.0  | 10.5 | 17.5     | 11.5 | 15.5 | 8.0     | 6.0  | 7.0  |
| 25    | 22.5     | 21.0 | 21.5 | 13.0     | 10.0 | 11.5 | 17.0     | 12.0 | 16.0 | 9.0     | 7.0  | 8.0  |
| 26    | 22.0     | 21.0 | 21.5 | 14.5     | 12.5 | 13.5 | 16.5     | 15.0 | 15.5 | 8.5     | 7.0  | 8.0  |
| 27    | 21.5     | 20.0 | 21.0 | 16.0     | 14.5 | 15.0 | 16.5     | 15.5 | 16.0 | 9.0     | 6.5  | 8.0  |
| 28    | 22.5     | 20.5 | 21.5 | 14.5     | 12.5 | 13.5 | 18.0     | 13.0 | 17.0 | 9.0     | 7.5  | 8.5  |
| 29    | 22.5     | 20.5 | 21.5 | 12.5     | 11.0 | 12.0 | 18.5     | 17.0 | 17.5 | 9.5     | 7.5  | 8.5  |
| 30    | 23.0     | 21.0 | 22.0 | 13.5     | 11.5 | 12.5 | 19.5     | 17.5 | 18.5 | 11.0    | 9.0  | 10.0 |
| 31    | 22.5     | 21.0 | 22.0 | ---      | ---  | ---  | 19.0     | 18.0 | 18.5 | 13.0    | 11.5 | 12.5 |
| MONTH | 23.0     | 20.0 | 21.5 | 22.5     | 9.0  | 15.0 | 19.5     | 8.0  | 14.5 | 19.0    | 3.5  | 9.5  |
|       | FEBRUARY |      |      | MARCH    |      |      | APRIL    |      |      | MAY     |      |      |
| 1     | 12.5     | 9.5  | 11.5 | 15.0     | 13.5 | 14.0 | 19.5     | 16.0 | 17.5 | 24.0    | 21.5 | 23.0 |
| 2     | 9.5      | 6.5  | 8.0  | 16.0     | 14.0 | 15.0 | 19.0     | 14.0 | 17.0 | 24.0    | 21.5 | 22.5 |
| 3     | 7.0      | 5.5  | 6.0  | 17.0     | 15.0 | 16.0 | 19.0     | 14.5 | 17.0 | 21.5    | 19.5 | 20.5 |
| 4     | 8.0      | 5.5  | 7.0  | 18.0     | 16.5 | 17.5 | 20.5     | 16.0 | 18.0 | 22.5    | 18.5 | 20.5 |
| 5     | 9.5      | 8.0  | 9.0  | 18.0     | 17.0 | 17.5 | 20.0     | 18.0 | 18.5 | 23.0    | 19.5 | 21.5 |
| 6     | 10.5     | 9.0  | 10.0 | 17.0     | 15.5 | 16.0 | 20.5     | 16.5 | 18.5 | 23.5    | 20.0 | 21.5 |
| 7     | 9.5      | 8.0  | 8.5  | 17.0     | 14.5 | 16.0 | 21.0     | 16.5 | 18.5 | 24.0    | 20.5 | 22.0 |
| 8     | 9.0      | 7.0  | 8.0  | 18.5     | 16.5 | 17.5 | 19.5     | 16.5 | 17.5 | 24.5    | 21.0 | 22.5 |
| 9     | 9.5      | 6.5  | 8.0  | 20.0     | 17.5 | 18.5 | 18.5     | 13.5 | 16.5 | 23.0    | 20.5 | 21.5 |
| 10    | 10.5     | 7.5  | 9.0  | 21.0     | 18.0 | 19.5 | 18.5     | 13.5 | 16.0 | 23.0    | 19.5 | 21.5 |
| 11    | 10.5     | 9.5  | 10.0 | 20.5     | 18.5 | 19.5 | 18.5     | 13.5 | 16.0 | 24.0    | 20.0 | 22.0 |
| 12    | 9.5      | 8.0  | 8.5  | 19.0     | 18.5 | 19.0 | 17.5     | 17.0 | 17.0 | 24.5    | 21.0 | 23.0 |
| 13    | 9.0      | 6.5  | 8.0  | 21.0     | 17.5 | 19.0 | 20.0     | 16.5 | 18.0 | 24.5    | 21.5 | 23.0 |
| 14    | 9.0      | 7.5  | 8.0  | 21.0     | 14.0 | 19.0 | 19.5     | 17.0 | 18.5 | 24.5    | 21.0 | 22.5 |
| 15    | 9.5      | 7.5  | 8.5  | 19.5     | 17.0 | 18.5 | 20.5     | 17.5 | 19.0 | 24.5    | 20.5 | 22.0 |
| 16    | 10.0     | 7.0  | 8.5  | 17.5     | 16.0 | 17.0 | 22.0     | 17.5 | 19.5 | 24.5    | 19.0 | 22.0 |
| 17    | 11.0     | 8.0  | 9.5  | 18.0     | 15.5 | 16.5 | 21.5     | 17.0 | 19.5 | 24.5    | 20.0 | 22.0 |
| 18    | 13.0     | 10.5 | 11.5 | 18.0     | 14.0 | 15.5 | 22.0     | 18.0 | 20.0 | 23.0    | 19.0 | 21.0 |
| 19    | 14.0     | 12.0 | 13.0 | 18.0     | 13.5 | 15.5 | 21.5     | 18.0 | 20.0 | 23.5    | 19.0 | 21.5 |
| 20    | 15.5     | 12.5 | 14.0 | 16.0     | 15.0 | 15.5 | 22.0     | 19.0 | 20.5 | 24.5    | 19.5 | 22.0 |
| 21    | 16.5     | 13.5 | 15.0 | 16.0     | 15.0 | 15.5 | 22.5     | 19.0 | 20.5 | 22.5    | 20.5 | 21.5 |
| 22    | 16.5     | 15.0 | 15.5 | 17.0     | 15.5 | 16.0 | 21.5     | 19.0 | 20.5 | 23.5    | 20.0 | 21.5 |
| 23    | 17.0     | 15.5 | 16.5 | 18.0     | 14.5 | 16.0 | 23.5     | 19.5 | 21.5 | 22.0    | 20.5 | 21.0 |
| 24    | 17.5     | 16.5 | 17.0 | 19.5     | 15.5 | 17.0 | 23.5     | 20.0 | 21.5 | 24.5    | 20.0 | 22.0 |
| 25    | 16.0     | 14.5 | 15.0 | 19.5     | 15.5 | 17.5 | 23.0     | 20.5 | 21.5 | 24.5    | 19.0 | 21.5 |
| 26    | 15.5     | 14.5 | 15.0 | 19.5     | 15.5 | 17.5 | 21.5     | 20.5 | 21.0 | 24.5    | 19.0 | 22.0 |
| 27    | 16.0     | 15.0 | 15.5 | 17.5     | 17.0 | 17.5 | 23.5     | 20.5 | 22.0 | 24.5    | 20.0 | 22.0 |
| 28    | 15.5     | 14.5 | 15.0 | 20.5     | 17.5 | 18.5 | 24.5     | 21.0 | 22.5 | 25.5    | 20.0 | 22.5 |
| 29    | ---      | ---  | ---  | 22.0     | 19.0 | 20.0 | 25.0     | 21.0 | 23.0 | 25.5    | 21.0 | 23.5 |
| 30    | ---      | ---  | ---  | 22.0     | 20.0 | 21.0 | 25.0     | 21.0 | 23.0 | 26.5    | 22.0 | 24.0 |
| 31    | ---      | ---  | ---  | 21.0     | 18.0 | 20.0 | ---      | ---  | ---  | 27.0    | 22.0 | 24.5 |
| MONTH | 17.5     | 5.5  | 11.0 | 22.0     | 13.5 | 17.5 | 25.0     | 13.5 | 19.5 | 27.0    | 18.5 | 22.0 |

02489270 CLEAR CREEK NEAR SANDY HOOK, MS--Continued

TEMPERATURE, WATER (DEG. C), OCTOBER 1984 TO OCTOBER 1985

[illegible]



## PEARL RIVER BASIN

143

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.--WDR LA-1981-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 55.00 ft above National Geodetic Vertical Datum of 1929 (levels by U. S. Army Corps of Engineers). Prior to July 29, 1954, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharge. Records good. Telemeter at station.

AVERAGE DISCHARGE.--47 years, 9,881 ft<sup>3</sup>/s, 20.41 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 129,000 ft<sup>3</sup>/s, Apr. 24, 1979, gage height, 23.23 ft; minimum, 1,020 ft<sup>3</sup>/s, Oct. 29 to Nov. 1, 1963; minimum gage height, 4.84 ft, Oct. 30, 31, 1963.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 11, 1938, reached a stage of 21.0 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 39,900 ft<sup>3</sup>/s, Mar. 3, gage height, 19.81 ft; minimum discharge, 1,760 ft<sup>3</sup>/s, Oct. 4, 5, 6, 7, gage height, 7.33 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY         | OCT    | NOV     | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN   | JUL    | AUG    | SEP    |
|-------------|--------|---------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|
| 1           | 1830   | 9350    | 16500  | 4340   | 8460   | 37600  | 7500   | 12500  | 2870  | 2790   | 3000   | 2910   |
| 2           | 1810   | 8560    | 17900  | 5250   | 9240   | 39400  | 8600   | 13000  | 2830  | 2710   | 2840   | 2960   |
| 3           | 1810   | 8510    | 18500  | 5290   | 14600  | 39800  | 10300  | 13100  | 2790  | 2680   | 2760   | 4200   |
| 4           | 1800   | 8340    | 19700  | 5420   | 18300  | 39600  | 10100  | 12700  | 2760  | 2590   | 2670   | 5240   |
| 5           | 1800   | 8020    | 25400  | 5100   | 20900  | 39000  | 9440   | 10900  | 2720  | 2580   | 2660   | 4760   |
| 6           | 1800   | 7390    | 28000  | 4790   | 23200  | 38100  | 9180   | 9540   | 2670  | 2570   | 2710   | 4220   |
| 7           | 1800   | 6000    | 29400  | 4820   | 26400  | 36900  | 8880   | 9110   | 2630  | 2590   | 2880   | 3980   |
| 8           | 1870   | 5240    | 29900  | 4810   | 29800  | 35100  | 8690   | 9000   | 2600  | 2590   | 3280   | 3670   |
| 9           | 2220   | 4860    | 29300  | 4690   | 32500  | 32200  | 8600   | 8420   | 2580  | 2540   | 3280   | 3460   |
| 10          | 2350   | 4690    | 27800  | 4550   | 33900  | 27800  | 8480   | 7090   | 2590  | 2550   | 3290   | 3840   |
| 11          | 2830   | 4490    | 24400  | 4360   | 35000  | 21300  | 8280   | 6450   | 2640  | 2670   | 3450   | 4620   |
| 12          | 2980   | 4280    | 20000  | 4070   | 35300  | 15700  | 7900   | 6560   | 2700  | 2610   | 3220   | 4400   |
| 13          | 2870   | 4090    | 16200  | 3880   | 35500  | 11400  | 7380   | 6640   | 2770  | 2510   | 2960   | 3680   |
| 14          | 2570   | 3950    | 12400  | 3790   | 35700  | 8930   | 6890   | 6240   | 2740  | 2530   | 2840   | 3220   |
| 15          | 2680   | 3870    | 9810   | 3760   | 36200  | 7460   | 6340   | 5490   | 2660  | 2670   | 3190   | 2940   |
| 16          | 3210   | 3850    | 8000   | 3760   | 36700  | 6610   | 5750   | 4840   | 2610  | 2780   | 5480   | 2780   |
| 17          | 3130   | 4090    | 6640   | 4810   | 36800  | 6130   | 5360   | 4480   | 2630  | 3010   | 9680   | 2680   |
| 18          | 4440   | 5330    | 5870   | 6250   | 36000  | 5750   | 5460   | 4130   | 2660  | 3370   | 17300  | 2590   |
| 19          | 5310   | 8560    | 5470   | 6440   | 34700  | 5530   | 5190   | 3800   | 2690  | 3490   | 16400  | 2520   |
| 20          | 5060   | 9770    | 5240   | 6760   | 32900  | 5490   | 4950   | 3570   | 2830  | 3760   | 11800  | 2460   |
| 21          | 4970   | 9650    | 5100   | 6840   | 30600  | 6820   | 4910   | 3460   | 3070  | 3560   | 7780   | 2410   |
| 22          | 9110   | 9260    | 5110   | 6280   | 27100  | 9120   | 5100   | 3480   | 3930  | 3260   | 5470   | 2390   |
| 23          | 16000  | 8210    | 5220   | 5680   | 21600  | 9330   | 5160   | 3490   | 3640  | 3340   | 4350   | 2630   |
| 24          | 25300  | 7100    | 5130   | 5340   | 17000  | 9280   | 5050   | 3460   | 3130  | 3910   | 3760   | 3220   |
| 25          | 29700  | 6270    | 4840   | 5270   | 16100  | 8630   | 5400   | 3400   | 2870  | 5400   | 3480   | 4300   |
| 26          | 34400  | 5430    | 4490   | 5240   | 22400  | 7140   | 6100   | 3330   | 2740  | 5930   | 3770   | 4140   |
| 27          | 38000  | 4770    | 4220   | 5180   | 30900  | 6170   | 7680   | 3230   | 2790  | 5580   | 3730   | 3800   |
| 28          | 37500  | 4760    | 4090   | 6250   | 34900  | 5960   | 9310   | 3130   | 2770  | 4830   | 3670   | 3410   |
| 29          | 31100  | 7110    | 4010   | 8000   | ---    | 6300   | 11000  | 3050   | 3000  | 4080   | 3570   | 3150   |
| 30          | 20000  | 12900   | 3970   | 9030   | ---    | 6370   | 12000  | 2970   | 2980  | 3500   | 3310   | 3150   |
| 31          | 13000  | ---     | 3950   | 9150   | ---    | 6710   | ---    | 2910   | ---   | 3160   | 3060   | ---    |
| TOTAL       | 313250 | 198700  | 406560 | 169200 | 772700 | 541630 | 224980 | 193470 | 84890 | 102140 | 151640 | 103730 |
| MEAN        | 10100  | 6623    | 13110  | 5458   | 27600  | 17470  | 7499   | 6241   | 2830  | 3295   | 4892   | 3458   |
| MAX         | 38000  | 12900   | 29900  | 9150   | 36800  | 39800  | 12000  | 13100  | 3930  | 5930   | 17300  | 5240   |
| MIN         | 1800   | 3850    | 3950   | 3760   | 8460   | 5490   | 4910   | 2910   | 2580  | 2510   | 2660   | 2390   |
| CFSM        | 1.54   | 1.01    | 2.00   | .83    | 4.20   | 2.66   | 1.14   | .95    | .43   | .50    | .74    | .53    |
| IN.         | 1.77   | 1.12    | 2.30   | .96    | 4.37   | 3.07   | 1.27   | 1.09   | .48   | .58    | .86    | .59    |
| CAL YR 1984 | TOTAL  | 3950060 | MEAN   | 10790  | MAX    | 41300  | MIN    | 1800   | CFSM  | 1.64   | IN     | 22.36  |
| WTR YR 1985 | TOTAL  | 3262890 | MEAN   | 8939   | MAX    | 39800  | MIN    | 1800   | CFSM  | 1.36   | IN     | 18.47  |

## PEARL RIVER BASIN

02490500 BOGUE CHITTO NEAR TYLERTOWN, MS

LOCATION.--Lat 31°10'37", long 90°16'48", in SE¼ sec.34, T.3 N., R.9 E., Washington Meridian, Pike County, Hydrologic Unit 03180005, near right bank on downstream side of bridge on U.S. Highway 98, 0.2 mi upstream from Bars Branch, 2.2 mi downstream from Topisaw Creek, and 9.2 mi northwest of Tylertown.

DRAINAGE AREA.--492 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1944 to current year.

REVISED RECORDS.--WSP 1504: 1945(P), 1946(M), 1947-51, 1953. WDR MS-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 227.40 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Oct. 1-21, Nov. 28 to Dec. 27, Feb. 25-28. Records poor prior to Mar. 1, good thereafter. Telemeter at station.

AVERAGE DISCHARGE.--41 years, 797 ft<sup>3</sup>/s, 22.00 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 64,200 ft<sup>3</sup>/s, Apr. 7, 1983, gage height, 34.62 ft; minimum, 175 ft<sup>3</sup>/s Oct. 31, 1963; minimum gage height, 5.93 ft, Sept. 30, 1982.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in February 1936 reached a stage 1.2 ft higher than the flood of Jan. 7, 1950, at the railroad bridge, 0.2 mi downstream.

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) |
|---------|---------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Oct. 24 | Unknown | *16,400                           | *a22.40             | Aug. 16 | 1730 | 7,750                             | 15.90               |

a Observed.

Minimum daily discharge, 245 ft<sup>3</sup>/s, Oct. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN  | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| 1     | 250   | 560   | 680   | 521   | 2070  | 2420  | 991   | 537   | 273  | 259   | 282   | 308   |
| 2     | 245   | 964   | 600   | 935   | 2560  | 2280  | 859   | 481   | 273  | 255   | 346   | 296   |
| 3     | 250   | 900   | 550   | 887   | 2500  | 2190  | 634   | 469   | 268  | 254   | 325   | 310   |
| 4     | 330   | 729   | 520   | 577   | 1310  | 1930  | 538   | 416   | 267  | 251   | 279   | 329   |
| 5     | 290   | 579   | 1250  | 500   | 1900  | 1270  | 499   | 386   | 264  | 251   | 264   | 322   |
| 6     | 270   | 532   | 920   | 459   | 2520  | 1010  | 610   | 369   | 261  | 254   | 259   | 330   |
| 7     | 260   | 487   | 760   | 428   | 2440  | 844   | 710   | 356   | 259  | 253   | 357   | 334   |
| 8     | 250   | 462   | 680   | 405   | 2400  | 745   | 543   | 347   | 261  | 252   | 311   | 605   |
| 9     | 500   | 421   | 620   | 388   | 1180  | 684   | 464   | 336   | 262  | 251   | 277   | 828   |
| 10    | 420   | 367   | 550   | 378   | 895   | 636   | 429   | 328   | 271  | 279   | 283   | 929   |
| 11    | 360   | 325   | 520   | 374   | 1820  | 690   | 411   | 323   | 268  | 311   | 266   | 795   |
| 12    | 340   | 312   | 480   | 360   | 2540  | 703   | 404   | 318   | 273  | 318   | 253   | 427   |
| 13    | 330   | 286   | 460   | 352   | 2450  | 602   | 409   | 314   | 269  | 326   | 259   | 338   |
| 14    | 320   | 298   | 440   | 344   | 1960  | 529   | 407   | 316   | 260  | 289   | 265   | 305   |
| 15    | 520   | 453   | 420   | 342   | 988   | 504   | 411   | 319   | 259  | 264   | 271   | 287   |
| 16    | 1000  | 417   | 400   | 349   | 792   | 489   | 443   | 315   | 259  | 311   | 4140  | 276   |
| 17    | 1300  | 397   | 380   | 847   | 700   | 474   | 428   | 310   | 254  | 396   | 5060  | 269   |
| 18    | 980   | 437   | 360   | 1370  | 630   | 459   | 386   | 301   | 279  | 331   | 2040  | 264   |
| 19    | 800   | 421   | 350   | 994   | 570   | 445   | 369   | 295   | 328  | 324   | 1070  | 261   |
| 20    | 700   | 405   | 340   | 633   | 547   | 491   | 360   | 292   | 375  | 316   | 647   | 256   |
| 21    | 640   | 405   | 330   | 538   | 513   | 1410  | 352   | 300   | 331  | 289   | 495   | 253   |
| 22    | 2680  | 405   | 330   | 446   | 485   | 1620  | 345   | 321   | 289  | 278   | 413   | 258   |
| 23    | 4380  | 409   | 360   | 424   | 479   | 930   | 341   | 321   | 272  | 300   | 377   | 415   |
| 24    | 12200 | 413   | 350   | 421   | 579   | 666   | 598   | 320   | 264  | 542   | 356   | 968   |
| 25    | 5800  | 401   | 330   | 421   | 2000  | 569   | 584   | 300   | 263  | 894   | 1210  | 489   |
| 26    | 3110  | 405   | 320   | 421   | 7000  | 514   | 509   | 292   | 290  | 859   | 684   | 572   |
| 27    | 1230  | 669   | 320   | 428   | 7500  | 489   | 1980  | 286   | 274  | 652   | 604   | 663   |
| 28    | 815   | 1800  | 339   | 1140  | 3800  | 591   | 1530  | 283   | 267  | 365   | 611   | 466   |
| 29    | 648   | 980   | 339   | 1720  | ---   | 634   | 1020  | 279   | 268  | 305   | 405   | 361   |
| 30    | 541   | 820   | 339   | 1180  | ---   | 566   | 686   | 277   | 265  | 286   | 349   | 383   |
| 31    | 532   | ---   | 355   | 762   | ---   | 727   | ---   | 276   | ---  | 283   | 323   | ---   |
| TOTAL | 42291 | 16459 | 14992 | 19344 | 55128 | 28111 | 18250 | 10383 | 8266 | 10798 | 23081 | 12897 |
| MEAN  | 1364  | 549   | 484   | 624   | 1969  | 907   | 608   | 335   | 276  | 348   | 745   | 430   |
| MAX   | 12200 | 1800  | 1250  | 1720  | 7500  | 2420  | 1980  | 537   | 375  | 894   | 5060  | 968   |
| MIN   | 245   | 286   | 320   | 342   | 479   | 445   | 341   | 276   | 254  | 251   | 253   | 253   |
| CFSM  | 2.77  | 1.12  | .98   | 1.27  | 4.00  | 1.84  | 1.24  | .68   | .56  | .71   | 1.51  | .87   |
| IN.   | 3.20  | 1.24  | 1.13  | 1.46  | 4.17  | 2.13  | 1.38  | .79   | .62  | .82   | 1.75  | .98   |

|             |       |        |          |           |         |           |          |
|-------------|-------|--------|----------|-----------|---------|-----------|----------|
| CAL YR 1984 | TOTAL | 265487 | MEAN 725 | MAX 12200 | MIN 245 | CFSM 1.47 | IN 20.07 |
| WTR YR 1985 | TOTAL | 260000 | MEAN 712 | MAX 12200 | MIN 245 | CFSM 1.45 | IN 19.66 |

## TENNESSEE RIVER MAIN STEM

03589500 TENNESSEE RIVER AT FLORENCE, AL

LOCATION.--Lat 34°47'13", long 87°40'12", in SW¼ 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 National Geodetic Vertical Datum of 1929. 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.--Estimated daily discharges: Oct. 11 to Nov. 22, Jan. 3-15. Records good except for periods of estimated record and those below 25,000 ft<sup>3</sup>/s, which are fair. 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. Several observations of specific conductance and water temperature were made during the year and are published under MISCELLANEOUS WATER-QUALITY SITES in this report.

AVERAGE DISCHARGE.--91 years, 51,870 ft<sup>3</sup>/s, 22.86 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 530,000 ft<sup>3</sup>/s, Mar. 17, 1973, maximum gage height, 32.5 ft, Mar. 19, 1897; minimum daily discharge, 105 ft<sup>3</sup>/s, Sept. 7, 1969 (computed on basis of Wilson Dam records), minimum gage height, -0.30 ft, Oct. 8, 1925, caused by filling of Wilson Lake.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1867 reached a stage of 31.1 ft, from National Weather Service records, discharge, 421,000 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 159,000 ft<sup>3</sup>/s, Feb. 5, maximum gage height, 15.42 ft, Feb. 5; minimum daily discharge, 7,280 ft<sup>3</sup>/s, July 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY         | OCT     | NOV      | DEC     | JAN     | FEB     | MAR     | APR    | MAY    | JUN    | JUL    | AUG     | SEP    |       |
|-------------|---------|----------|---------|---------|---------|---------|--------|--------|--------|--------|---------|--------|-------|
| 1           | 30900   | 35000    | 83100   | 38700   | 79500   | 54700   | 25400  | 21000  | 19000  | 20000  | 41500   | 32100  |       |
| 2           | 27100   | 32000    | 79800   | 47900   | 112000  | 60900   | 18300  | 36400  | 12500  | 18900  | 36100   | 27100  |       |
| 3           | 27000   | 27000    | 65800   | 66000   | 111000  | 48400   | 19500  | 44500  | 31000  | 29500  | 27100   | 33300  |       |
| 4           | 27500   | 27000    | 71400   | 60000   | 116000  | 44900   | 19400  | 26600  | 36000  | 23800  | 15100   | 31400  |       |
| 5           | 30100   | 31000    | 78200   | 56000   | 142000  | 46300   | 22900  | 15400  | 36100  | 29700  | 21800   | 32600  |       |
| 6           | 23300   | 37000    | 75900   | 58000   | 125000  | 46800   | 14800  | 28800  | 23400  | 15800  | 23100   | 25100  |       |
| 7           | 20000   | 41000    | 73500   | 56000   | 108000  | 44600   | 14100  | 17000  | 26000  | 13600  | 25700   | 20000  |       |
| 8           | 26600   | 43000    | 51100   | 56000   | 108000  | 42400   | 22900  | 32200  | 10100  | 21200  | 31800   | 17300  |       |
| 9           | 26500   | 34000    | 43700   | 53000   | 104000  | 31200   | 20000  | 33000  | 9540   | 23800  | 38000   | 34700  |       |
| 10          | 32300   | 27000    | 52800   | 57000   | 96100   | 21800   | 18800  | 34000  | 31000  | 24300  | 30200   | 35800  |       |
| 11          | 37000   | 29000    | 54800   | 54000   | 78100   | 28500   | 18300  | 18800  | 27700  | 26700  | 25300   | 34200  |       |
| 12          | 31000   | 46000    | 55000   | 48000   | 94000   | 33600   | 16700  | 26900  | 22500  | 29900  | 39600   | 33200  |       |
| 13          | 21000   | 51000    | 58100   | 36000   | 106000  | 36200   | 12800  | 32400  | 17000  | 15100  | 35200   | 27100  |       |
| 14          | 20000   | 46000    | 63000   | 30000   | 101000  | 43300   | 14300  | 42200  | 13700  | 19300  | 30900   | 11800  |       |
| 15          | 25000   | 47000    | 37900   | 42000   | 97200   | 38900   | 18800  | 41900  | 14700  | 16700  | 28900   | 9590   |       |
| 16          | 26000   | 43000    | 30100   | 32000   | 75200   | 23700   | 20000  | 30600  | 13800  | 18000  | 31400   | 26200  |       |
| 17          | 27000   | 35000    | 41800   | 40800   | 67600   | 19400   | 18500  | 30600  | 24900  | 15600  | 57900   | 24500  |       |
| 18          | 30000   | 25000    | 40800   | 48300   | 57800   | 27800   | 21500  | 9610   | 30700  | 7280   | 55100   | 33700  |       |
| 19          | 30000   | 54000    | 39900   | 29700   | 63300   | 26800   | 22800  | 11100  | 21300  | 23200  | 51600   | 31100  |       |
| 20          | 21000   | 57000    | 39300   | 33500   | 62300   | 28500   | 12900  | 11500  | 17300  | 25000  | 47500   | 32900  |       |
| 21          | 24000   | 57000    | 37300   | 61400   | 67500   | 26800   | 11500  | 17400  | 17100  | 16600  | 52900   | 11700  |       |
| 22          | 45000   | 50000    | 52100   | 53500   | 75300   | 26600   | 20500  | 23400  | 16600  | 25700  | 45200   | 12400  |       |
| 23          | 76000   | 57300    | 36200   | 46700   | 71200   | 18800   | 27300  | 21400  | 15400  | 24900  | 49900   | 19400  |       |
| 24          | 85000   | 41300    | 30900   | 36900   | 52400   | 17000   | 19700  | 22500  | 24000  | 24700  | 30400   | 15300  |       |
| 25          | 70000   | 38300    | 30100   | 39100   | 60900   | 20400   | 13800  | 16700  | 32200  | 25800  | 20000   | 15100  |       |
| 26          | 48000   | 44700    | 58100   | 26900   | 49800   | 18400   | 16200  | 9280   | 32500  | 44100  | 40300   | 27000  |       |
| 27          | 60000   | 47300    | 66000   | 26700   | 56400   | 22900   | 16700  | 15300  | 31200  | 28700  | 51700   | 25200  |       |
| 28          | 24000   | 66400    | 69400   | 33900   | 49700   | 33000   | 17200  | 20900  | 23600  | 36600  | 51000   | 18800  |       |
| 29          | 38000   | 93300    | 51600   | 35800   | ---     | 33400   | 17000  | 15300  | 17600  | 49800  | 54000   | 8780   |       |
| 30          | 37000   | 94100    | 34700   | 33200   | ---     | 27500   | 14800  | 25300  | 8240   | 39000  | 48000   | 20800  |       |
| 31          | 40000   | ---      | 42000   | 36000   | ---     | 25800   | ---    | 32400  | ---    | 41000  | 43800   | ---    |       |
| TOTAL       | 1086300 | 1356700  | 1644400 | 1373000 | 2387300 | 1019300 | 547400 | 764390 | 656680 | 774280 | 1181000 | 728170 |       |
| MEAN        | 35040   | 45220    | 53050   | 44290   | 85260   | 32880   | 18250  | 24660  | 21890  | 24980  | 38100   | 24270  |       |
| MAX         | 85000   | 94100    | 83100   | 66000   | 142000  | 60900   | 27300  | 44500  | 36100  | 49800  | 57900   | 35800  |       |
| MIN         | 20000   | 25000    | 30100   | 26700   | 49700   | 17000   | 11500  | 9280   | 8240   | 7280   | 15100   | 8780   |       |
| CFSM        | 1.14    | 1.47     | 1.72    | 1.44    | 2.77    | 1.07    | .59    | .80    | .71    | .81    | 1.24    | .79    |       |
| IN.         | 1.31    | 1.64     | 1.99    | 1.66    | 2.88    | 1.23    | .66    | .92    | .79    | .93    | 1.43    | .88    |       |
| CAL YR 1984 | TOTAL   | 22057700 |         | MEAN    | 60270   | MAX     | 313000 | MIN    | 12200  | CFSM   | 1.96    | IN.    | 26.63 |
| WTR YR 1985 | TOTAL   | 13518920 |         | MEAN    | 37040   | MAX     | 142000 | MIN    | 7280   | CFSM   | 1.20    | IN.    | 16.32 |

## TENNESSEE RIVER BASIN

03592718 LITTLE YELLOW CREEK EAST NEAR BURNSVILLE, MS

LOCATION.--Lat 34°50'01", long 88°17'08", in SE¼ 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 Highway Department datum.

REMARKS.--Estimated daily discharges: Oct. 29 to Nov. 3 and July 4 to Aug. 20. Records poor.

AVERAGE DISCHARGE.--12 years, 45.8 ft<sup>3</sup>/s, 25.19 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, not determined Dec. 26, 1983, gage height, 21.74 ft; minimum, 1.5 ft<sup>3</sup>/s Sept. 9, 1984.

EXTREMES OUTSIDE PERIOD OF RECORD.--A discharge of 3,180 ft<sup>3</sup>/s, gage height, 19.12 ft was measured Mar. 16, 1973.

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

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date                                       | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|---------|------|-----------------------------------|---------------------|--------------------------------------------|------|-----------------------------------|---------------------|
| Apr. 24 | 0615 | *1,040                            | *15.60              | No other peak greater than base discharge. |      |                                   |                     |

Minimum discharge, 2.8 ft<sup>3</sup>/s Oct. 1, gage height, 6.81 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT   | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|------|------|------|------|------|------|-------|-------|-------|-------|-------|
| 1     | 3.2   | 90   | 39   | 30   | 63   | 32   | 39   | 88    | 8.2   | 6.5   | 5.0   | 7.2   |
| 2     | 3.5   | 68   | 81   | 23   | 39   | 30   | 29   | 80    | 7.5   | 6.7   | 4.3   | 7.3   |
| 3     | 3.5   | 44   | 62   | 47   | 31   | 28   | 25   | 38    | 6.7   | 6.1   | 3.8   | 7.0   |
| 4     | 12    | 14   | 34   | 65   | 29   | 30   | 22   | 28    | 6.5   | 15    | 3.8   | 7.8   |
| 5     | 4.8   | 13   | 34   | 32   | 107  | 38   | 31   | 23    | 6.2   | 9.6   | 31    | 8.2   |
| 6     | 3.3   | 12   | 46   | 28   | 116  | 27   | 40   | 20    | 6.1   | 7.9   | 18    | 7.4   |
| 7     | 7.1   | 12   | 29   | 30   | 68   | 25   | 25   | 31    | 6.1   | 6.3   | 7.1   | 7.4   |
| 8     | 100   | 12   | 27   | 32   | 46   | 25   | 21   | 79    | 7.1   | 6.3   | 4.3   | 7.4   |
| 9     | 15    | 12   | 26   | 26   | 40   | 26   | 20   | 36    | 7.1   | 6.2   | 3.8   | 7.3   |
| 10    | 6.4   | 34   | 25   | 47   | 81   | 24   | 20   | 29    | 6.8   | 5.6   | 2.8   | 7.2   |
| 11    | 5.6   | 25   | 23   | 36   | 358  | 23   | 18   | 25    | 15    | 5.6   | 2.8   | 7.2   |
| 12    | 5.3   | 16   | 23   | 26   | 155  | 22   | 19   | 19    | 35    | 5.4   | 2.6   | 7.2   |
| 13    | 6.2   | 15   | 23   | 24   | 86   | 20   | 20   | 15    | 9.0   | 5.4   | 2.8   | 7.1   |
| 14    | 6.9   | 14   | 22   | 25   | 68   | 20   | 43   | 12    | 7.0   | 5.4   | 2.8   | 6.9   |
| 15    | 6.8   | 26   | 20   | 22   | 54   | 19   | 75   | 11    | 6.4   | 15    | 2.8   | 6.8   |
| 16    | 7.1   | 33   | 20   | 31   | 43   | 19   | 42   | 10    | 7.0   | 99    | 93    | 6.8   |
| 17    | 36    | 19   | 20   | 88   | 40   | 19   | 28   | 10    | 7.2   | 17    | 98    | 6.7   |
| 18    | 15    | 98   | 21   | 39   | 38   | 17   | 24   | 9.7   | 41    | 5.0   | 32    | 6.5   |
| 19    | 9.3   | 172  | 21   | 29   | 47   | 17   | 21   | 9.4   | 12    | 3.8   | 21    | 6.3   |
| 20    | 9.6   | 43   | 69   | 22   | 40   | 17   | 18   | 9.2   | 7.9   | 3.3   | 50    | 6.1   |
| 21    | 40    | 29   | 44   | 19   | 34   | 44   | 17   | 9.0   | 6.7   | 3.1   | 26    | 6.0   |
| 22    | 102   | 24   | 59   | 20   | 31   | 294  | 16   | 8.7   | 6.5   | 11    | 11    | 5.8   |
| 23    | 174   | 21   | 31   | 23   | 31   | 69   | 23   | 8.4   | 7.8   | 15    | 8.7   | 6.2   |
| 24    | 52    | 20   | 31   | 26   | 126  | 42   | 568  | 8.1   | 6.8   | 4.3   | 16    | 11    |
| 25    | 26    | 19   | 39   | 24   | 64   | 28   | 88   | 7.5   | 7.5   | 20    | 31    | 6.8   |
| 26    | 27    | 18   | 27   | 17   | 50   | 23   | 49   | 7.3   | 8.0   | 26    | 12    | 11    |
| 27    | 14    | 145  | 25   | 19   | 40   | 27   | 45   | 6.7   | 7.0   | 38    | 8.9   | 7.0   |
| 28    | 16    | 181  | 23   | 43   | 34   | 28   | 37   | 8.6   | 9.9   | 16    | 7.9   | 6.3   |
| 29    | 15    | 60   | 23   | 26   | ---  | 23   | 28   | 40    | 8.3   | 13    | 7.4   | 6.1   |
| 30    | 15    | 48   | 22   | 29   | ---  | 20   | 24   | 11    | 7.3   | 8.7   | 7.2   | 18    |
| 31    | 21    | ---  | 22   | 62   | ---  | 99   | ---  | 8.6   | ---   | 6.1   | 7.0   | ---   |
| TOTAL | 768.6 | 1337 | 1011 | 1010 | 1959 | 1175 | 1475 | 706.2 | 291.6 | 402.3 | 534.8 | 226.0 |
| MEAN  | 24.8  | 44.6 | 32.6 | 32.6 | 70.0 | 37.9 | 49.2 | 22.8  | 9.72  | 13.0  | 17.3  | 7.53  |
| MAX   | 174   | 181  | 81   | 88   | 358  | 294  | 568  | 88    | 41    | 99    | 98    | 18    |
| MIN   | 3.2   | 12   | 20   | 17   | 29   | 17   | 16   | 6.7   | 6.1   | 3.1   | 2.6   | 5.8   |
| CFSM  | 1.00  | 1.81 | 1.32 | 1.32 | 2.83 | 1.53 | 1.99 | .92   | .39   | .53   | .70   | .31   |
| IN.   | 1.16  | 2.01 | 1.52 | 1.52 | 2.95 | 1.77 | 2.22 | 1.06  | .44   | .61   | .81   | .34   |

CAL YR 1984 TOTAL 14116.2 MEAN 38.6 MAX 1550 MIN 1.5 CFSM 1.56 IN 21.26  
WTR YR 1985 TOTAL 10896.5 MEAN 29.9 MAX 568 MIN 2.6 CFSM 1.21 IN 16.41



## TENNESSEE RIVER BASIN

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03592824 TENNESSEE-TOMBIGBEE WATERWAY AT CROSS ROADS, MS

LOCATION.--Lat 34°54'51", long 88°14'48", in SE¼ sec.9, T.2 S., R.10 E., Chickasaw Meridian, Tishomingo County, Hydrologic Unit 06030005, at northern end of Tennessee-Tombigbee Waterway, near bridge on State Highway 25, 0.9 mi southeast of Cross Roads.

## WATER-STAGE RECORDS

PERIOD OF RECORD.--December 1980 to current year (gage heights only).

REVISED RECORD.--WRD MS-84-1:1983(M,m).

GAGE.--Water-stage recorder. Datum of gage is 400.00 ft above National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 18.24 ft, May 9, 1984; minimum, 7.97 ft, Dec. 17, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 14.83 ft, May 3; minimum, 7.97 ft, Feb. 23.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT    | NOV   | DEC  | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------|--------|-------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1     | 10.85  | 10.05 | ---  | 9.01   | 9.40   | 8.92   | 11.23  | 13.99  | 13.67  | 13.34  | 12.36  | 12.35  |
| 2     | 10.85  | 10.07 | ---  | 8.96   | 9.43   | 8.49   | 11.40  | 14.50  | 13.45  | 13.60  | 12.41  | 12.11  |
| 3     | 10.75  | 10.02 | ---  | 8.71   | 9.47   | 8.51   | 11.63  | 14.57  | 13.39  | 13.64  | 12.36  | 11.69  |
| 4     | 10.69  | 10.05 | ---  | 9.11   | 9.41   | 8.60   | 11.95  | 14.34  | 13.67  | 13.86  | 12.16  | 11.83  |
| 5     | 10.58  | 9.93  | ---  | 9.11   | 9.40   | 8.59   | 12.19  | 14.10  | 14.13  | 13.88  | 12.15  | 11.82  |
| 6     | 10.48  | 10.16 | ---  | 9.35   | 9.78   | 8.79   | 12.32  | 13.91  | 13.94  | 13.51  | 12.37  | 11.75  |
| 7     | 10.54  | 9.84  | ---  | 9.47   | 9.55   | 8.87   | 12.30  | 13.80  | 13.60  | 13.17  | 12.49  | 11.54  |
| 8     | 11.04  | 9.88  | ---  | 9.28   | 9.32   | 8.89   | 12.50  | 13.87  | 13.48  | 12.99  | 12.69  | 11.10  |
| 9     | 11.09  | 9.87  | ---  | 9.22   | 9.41   | 8.96   | 12.94  | 14.02  | 13.33  | 13.17  | 12.73  | 10.87  |
| 10    | 10.97  | 9.48  | ---  | 8.93   | 9.30   | 9.05   | 12.94  | 13.66  | 13.43  | 13.30  | 12.48  | 11.03  |
| 11    | 10.79  | 9.52  | ---  | 8.89   | 9.53   | 9.10   | 12.88  | 13.71  | 13.50  | 13.40  | 12.18  | 11.24  |
| 12    | 10.55  | 9.67  | ---  | 8.94   | 10.08  | 9.01   | 12.90  | 13.81  | 13.60  | 13.57  | 12.05  | 11.40  |
| 13    | 10.46  | 9.54  | ---  | 9.32   | 10.54  | 8.92   | 12.82  | 13.87  | 13.75  | 13.05  | 12.32  | 11.67  |
| 14    | 10.42  | 9.86  | ---  | 9.37   | 10.45  | 8.83   | 12.66  | 13.82  | 13.57  | 12.71  | 12.61  | 11.61  |
| 15    | 10.41  | 9.87  | ---  | 8.91   | 10.40  | 9.04   | 12.70  | 13.72  | 13.25  | 12.75  | 12.72  | 11.17  |
| 16    | 10.54  | 9.98  | ---  | 9.10   | 10.44  | 9.13   | 12.78  | 13.53  | 13.06  | 12.78  | 13.03  | 10.95  |
| 17    | 10.42  | 9.84  | ---  | 9.32   | 9.99   | 9.06   | 12.87  | 13.47  | 13.14  | 12.99  | 13.42  | 11.04  |
| 18    | 10.49  | 9.88  | ---  | 9.33   | 9.75   | 9.02   | 12.99  | 13.59  | 13.39  | 13.18  | 13.14  | 10.99  |
| 19    | 10.51  | 10.20 | ---  | 9.49   | 9.45   | 9.04   | 13.13  | 13.70  | 13.71  | 13.00  | 12.88  | 10.92  |
| 20    | 10.53  | 9.63  | 8.99 | 9.54   | 9.34   | 9.12   | 13.34  | 13.67  | 13.76  | 12.71  | 12.70  | 10.86  |
| 21    | 10.66  | 9.22  | 9.10 | 9.57   | 9.02   | 9.20   | 13.19  | 13.67  | 13.75  | 12.41  | 12.55  | 10.93  |
| 22    | 10.70  | 9.03  | 9.08 | 9.52   | 8.61   | 9.44   | 13.12  | 13.71  | 13.53  | 12.35  | 12.41  | 10.60  |
| 23    | 10.71  | 9.33  | 8.97 | 9.39   | 8.54   | 9.66   | 13.24  | 13.71  | 13.25  | 12.51  | 12.13  | 10.62  |
| 24    | 10.61  | 9.70  | 9.09 | 9.35   | 8.96   | 9.74   | 13.79  | 13.72  | 13.20  | 12.57  | 11.87  | 10.85  |
| 25    | 10.38  | 9.77  | 9.20 | 9.20   | 9.23   | 9.86   | 13.95  | 13.73  | 13.56  | 12.75  | 11.89  | 10.92  |
| 26    | 9.83   | 9.80  | 9.04 | 9.06   | 9.19   | 10.11  | 13.99  | 13.82  | 13.56  | 12.91  | 11.91  | 10.98  |
| 27    | 9.51   | 9.69  | 8.74 | 9.04   | 9.26   | 10.34  | 13.97  | 13.78  | 13.85  | 13.01  | 12.24  | 11.12  |
| 28    | 9.87   | ---   | 8.78 | 9.02   | 9.28   | 10.53  | 13.93  | 13.82  | 13.77  | 12.90  | 12.50  | 11.25  |
| 29    | 10.04  | ---   | 9.14 | 9.08   | ---    | 10.67  | 13.86  | 14.01  | 13.34  | 12.22  | 12.69  | 11.20  |
| 30    | 10.14  | ---   | 9.10 | 9.10   | ---    | 10.75  | 13.83  | 13.98  | 13.34  | 12.43  | 12.81  | 11.05  |
| 31    | 10.14  | ---   | 8.94 | 9.18   | ---    | 11.04  | ---    | 13.87  | ---    | 12.40  | 12.49  | ---    |
| TOTAL | 325.55 | ---   | ---  | 284.87 | 266.53 | 289.28 | 387.34 | 429.47 | 405.97 | 403.06 | 386.74 | 337.46 |
| MEAN  | 10.50  | ---   | ---  | 9.19   | 9.52   | 9.33   | 12.91  | 13.85  | 13.53  | 13.00  | 12.48  | 11.25  |
| MAX   | 11.09  | ---   | ---  | 9.57   | 10.54  | 11.04  | 13.99  | 14.57  | 14.13  | 13.88  | 13.42  | 12.35  |
| MIN   | 9.51   | ---   | ---  | 8.71   | 8.54   | 8.49   | 11.23  | 13.47  | 13.06  | 12.22  | 11.87  | 10.60  |



## TENNESSEE RIVER BASIN

03592824 TENNESSEE-TOMBIGBEE WATERWAY AT CROSS ROADS, MS--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1980 to current year.

## PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1980 to September 1985 (discontinued).  
 pH: April 1980 to September 1985 (discontinued).  
 WATER TEMPERATURE: April 1980 to September 1985 (discontinued).  
 TURBIDITY: April 1980 to September 1985 (discontinued).  
 DISSOLVED OXYGEN: April 1980 to September 1985 (discontinued).  
 SUSPENDED SEDIMENT CONCENTRATION: October 1980 to September 1985 (discontinued).

INSTRUMENTATION.--Water-quality monitor from April 1980 to September 1985. Automatic pumping sediment sampler from October 1980 to September 1985.

REMARKS.--Water-quality monitor intake at south bank of canal 400 ft east of bridge. Interruptions in the record were due to malfunctions of the instrument.

## EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 202 microsiemens July 30, 1984; minimum, 19 microsiemens Mar. 5, 1983.  
 pH: Maximum, 8.5 units June 27, 1981; minimum, 5.0 units Nov. 29-Dec. 2, 1983.  
 WATER TEMPERATURE: Maximum, 33.5 C July 14, 1981; minimum, 0.5 C Jan. 21, 1984, Feb. 2, 1985.  
 TURBIDITY: Maximum, 550 NTU June 17, Aug. 29, 1980, Jan. 22, 24, 1982; minimum, 4.3 NTU Aug. 2, 1983.  
 DISSOLVED OXYGEN: Maximum, 13.5 mg/L Jan. 6, 1981; minimum, 2.0 mg/L July 18, 1981.  
 SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 51 mg/L Aug. 12, 1985; minimum daily mean, 0 mg/L on several days during 1984 water year.

## EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--

pH: Maximum, 8.3 units Oct. 24, 1982; minimum, 5.3 units Apr. 5-7, 1983.  
 DISSOLVED OXYGEN: Maximum, 12.9 mg/L Jan. 21, Mar. 13, 1984; minimum, 2.5 mg/L Jul. 6-7, 1983.  
 SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 708 mg/L Aug. 7, 1983; minimum daily mean, 2 mg/L Jan. 10, 1981.

## EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 182 microsiemens Oct. 7; minimum, 50 microsiemens Mar. 23.  
 pH: Maximum, 8.1 units June 12; minimum, 6.2 units Dec. 23-24, 26.  
 WATER TEMPERATURE: Maximum, 31.0 C July 14, 21, Aug. 12; minimum, 0.5 C Feb. 2.  
 TURBIDITY: Maximum, 260 NTU Nov. 17; minimum, 9.8 NTU Sept. 23.  
 DISSOLVED OXYGEN: Maximum, 12.8 mg/L Feb. 20-21; minimum, 2.3 mg/L Aug. 15.  
 SUSPENDED SEDIMENT CONCENTRATION: Maximum daily mean, 51 mg/L Aug. 12; minimum daily mean, 1 mg/L June 25-27, Jul. 25, Aug. 21.

| DATE      | TIME | SPECIFIC CONDUCTANCE (US/CM) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | COLOR (PLATINUM-COBALT UNITS) | TURBIDITY (NTU) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DEMAND, CHEMICAL (HIGH SATURATION) (MG/L) | COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) |      |
|-----------|------|------------------------------|---------------------|---------------------|-------------------------------|-----------------|--------------------------|---------------------------------------------------|-------------------------------------------|------|
| NOV 19... | 1055 | 91                           | 6.5                 | 12.0                | 75                            | 34              | 9.4                      | 87                                                | 28                                        | 1200 |
| FEB 19... | 1430 | 94                           | 6.7                 | 5.5                 | 30                            | 10              | 12.3                     | 98                                                | 12                                        | <10  |
| JUN 12... | 1045 | 146                          | 7.3                 | 26.5                | 5                             | 3.1             | 5.7                      | 72                                                | 14                                        | K9   |
| JUL 31... | 1545 | 153                          | 7.8                 | 30.0                | 15                            | 5.1             | 7.4                      | 98                                                | <10                                       | <5   |

| DATE      | SODIUM, DISSOLVED (MG/L AS NA) | ALKALINITY LAB (MG/L AS CaCO3) | SILICA, DISSOLVED (MG/L AS SiO2) | SOLIDS, RESIDUE AT 180 DEG C (MG/L) | SOLIDS, DISSOLVED (TONS PER AC-FT) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) | NITROGEN, ORGANIC TOTAL (MG/L AS N) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) |
|-----------|--------------------------------|--------------------------------|----------------------------------|-------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-----------------------------------------------|
| NOV 19... | 2.5                            | 25                             | 6.0                              | 58                                  | .08                                | <.10                                | .230                                | .37                                 | .60                                           |
| FEB 19... | 1.6                            | 22                             | 7.1                              | 83                                  | .11                                | .10                                 | <.010                               | --                                  | .40                                           |
| JUN 12... | 5.3                            | 51                             | 2.0                              | 96                                  | .13                                | .10                                 | .260                                | .14                                 | .40                                           |
| JUL 31... | 12                             | 52                             | 3.4                              | 125                                 | .17                                | <.10                                | .010                                | .39                                 | .40                                           |

| DATE      | NITROGEN, TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | PHOSPHORUS, DISSOLVED (MG/L AS P) | IRON, TOTAL RECOVERABLE (UG/L AS FE) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) | MANGANESE, DISSOLVED (UG/L AS MN) | MERCURY, TOTAL RECOVERABLE (UG/L AS HG) | PHENOLS TOTAL (UG/L) |
|-----------|-----------------------------|-------------------------------|-----------------------------------|--------------------------------------|------------------------------|-------------------------------------------|-----------------------------------|-----------------------------------------|----------------------|
| NOV 19... | --                          | .050                          | <.010                             | 2300                                 | 280                          | 210                                       | 150                               | <.1                                     | 10                   |
| FEB 19... | .50                         | .070                          | <.010                             | 1000                                 | 210                          | 200                                       | 190                               | <.1                                     | 3                    |
| JUN 12... | .50                         | <.010                         | <.010                             | 510                                  | 17                           | 130                                       | 22                                | <.1                                     | 1                    |
| JUL 31... | --                          | <.010                         | <.010                             | 390                                  | 39                           | 100                                       | 9                                 | .1                                      | <1                   |

## TENNESSEE RIVER BASIN

03592824 TENNESSEE-TOMBIGBEE WATERWAY AT CROSS ROADS, MS--Continued

## PESTICIDE ANALYSES, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | PCB,<br>TOTAL<br>(UG/L) | NAPH-<br>THA-<br>LENES,<br>POLY-<br>CHLOR.<br>TOTAL<br>(UG/L) | ALDRIN,<br>TOTAL<br>(UG/L) | CHLOR-<br>DANE,<br>TOTAL<br>(UG/L) | DDD,<br>TOTAL<br>(UG/L) | DDE,<br>TOTAL<br>(UG/L) | DDT,<br>TOTAL<br>(UG/L) | DI-<br>AZINON,<br>TOTAL<br>(UG/L) | DI-<br>ELDRIN,<br>TOTAL<br>(UG/L) | ENDO-<br>SULFAN,<br>TOTAL<br>(UG/L) |
|--------------|-------------------------|---------------------------------------------------------------|----------------------------|------------------------------------|-------------------------|-------------------------|-------------------------|-----------------------------------|-----------------------------------|-------------------------------------|
| NOV<br>19... | <.1                     | <.10                                                          | <.010                      | <.1                                | <.010                   | <.010                   | <.010                   | <.01                              | <.010                             | <.010                               |
| FEB<br>19... | <.1                     | <.10                                                          | <.010                      | <.1                                | <.010                   | <.010                   | <.010                   | <.01                              | <.010                             | <.010                               |
| JUN<br>12... | <.1                     | <.10                                                          | <.010                      | <.1                                | <.010                   | <.010                   | <.010                   | <.01                              | <.010                             | <.010                               |
| JUL<br>31... | <.1                     | <.10                                                          | <.010                      | <.1                                | <.010                   | <.010                   | <.010                   | <.01                              | <.010                             | <.010                               |

| DATE         | ENDRIN,<br>TOTAL<br>(UG/L) | ETHION,<br>TOTAL<br>(UG/L) | HEPTA-<br>CHLOR,<br>TOTAL<br>(UG/L) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOTAL<br>(UG/L) | LINDANE<br>TOTAL<br>(UG/L) | MAL A-<br>THION,<br>TOTAL<br>(UG/L) | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>(UG/L) | METHYL<br>PARA-<br>THION,<br>TOTAL<br>(UG/L) | METHYL<br>TRI-<br>THION,<br>TOTAL<br>(UG/L) |
|--------------|----------------------------|----------------------------|-------------------------------------|-----------------------------------------------|----------------------------|-------------------------------------|--------------------------------------------|----------------------------------------------|---------------------------------------------|
| NOV<br>19... | <.010                      | <.01                       | <.010                               | <.010                                         | <.010                      | <.01                                | <.01                                       | <.01                                         | <.01                                        |
| FEB<br>19... | <.010                      | <.01                       | <.010                               | <.010                                         | <.010                      | <.01                                | <.01                                       | <.01                                         | <.01                                        |
| JUN<br>12... | <.010                      | <.01                       | <.010                               | <.010                                         | <.010                      | <.01                                | <.01                                       | <.01                                         | <.01                                        |
| JUL<br>31... | <.010                      | <.01                       | <.010                               | <.010                                         | <.010                      | <.01                                | <.01                                       | <.01                                         | <.01                                        |

| DATE         | MIREX,<br>TOTAL<br>(UG/L) | PARA-<br>THION,<br>TOTAL<br>(UG/L) | PER-<br>THANE<br>TOTAL<br>(UG/L) | TOX-<br>APHENE,<br>TOTAL<br>(UG/L) | TOTAL<br>TRI-<br>THION<br>(UG/L) | 2,4-D,<br>TOTAL<br>(UG/L) | 2, 4-DP<br>TOTAL<br>(UG/L) | 2,4,5-T<br>TOTAL<br>(UG/L) | SILVEX,<br>TOTAL<br>(UG/L) |
|--------------|---------------------------|------------------------------------|----------------------------------|------------------------------------|----------------------------------|---------------------------|----------------------------|----------------------------|----------------------------|
| NOV<br>19... | <.01                      | <.01                               | <.1                              | <.1                                | <.01                             | .01                       | <.01                       | <.01                       | <.01                       |
| FEB<br>19... | <.01                      | <.01                               | <.1                              | <.1                                | <.01                             | <.01                      | <.01                       | <.01                       | <.01                       |
| JUN<br>12... | <.01                      | <.01                               | <.1                              | <.1                                | <.01                             | <.01                      | <.01                       | <.01                       | <.01                       |
| JUL<br>31... | <.01                      | <.01                               | <.1                              | <.1                                | <.01                             | .03                       | <.01                       | <.01                       | <.01                       |

## SPECIFIC CONDUCTANCE, MICRO SIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DAY   | MAX     | MIN | MEAN | MAX      | MIN | MEAN | MAX      | MIN | MEAN | MAX     | MIN | MEAN |
|-------|---------|-----|------|----------|-----|------|----------|-----|------|---------|-----|------|
|       | OCTOBER |     |      | NOVEMBER |     |      | DECEMBER |     |      | JANUARY |     |      |
| 1     | 169     | 151 | 160  | 140      | 131 | 137  | 118      | 112 | 115  | 89      | 79  | 83   |
| 2     | 167     | 156 | 162  | 136      | 132 | 134  | 119      | 115 | 117  | ---     | --- | ---  |
| 3     | 174     | 156 | 166  | 135      | 120 | 127  | 116      | 99  | 109  | ---     | --- | ---  |
| 4     | 170     | 160 | 166  | 131      | 127 | 129  | 107      | 92  | 101  | ---     | --- | ---  |
| 5     | 180     | 162 | 173  | 131      | 122 | 128  | 103      | 97  | 100  | ---     | --- | ---  |
| 6     | 181     | 167 | 176  | 132      | 124 | 128  | 118      | 95  | 107  | ---     | --- | ---  |
| 7     | 182     | 165 | 179  | 129      | 115 | 122  | 126      | 111 | 117  | ---     | --- | ---  |
| 8     | 177     | 142 | 162  | 127      | 109 | 115  | 122      | 106 | 112  | ---     | --- | ---  |
| 9     | 168     | 150 | 157  | 128      | 124 | 126  | 107      | 99  | 103  | ---     | --- | ---  |
| 10    | 166     | 140 | 153  | 125      | 104 | 110  | 101      | 95  | 98   | ---     | --- | ---  |
| 11    | 157     | 133 | 143  | 106      | 103 | 105  | 96       | 94  | 95   | ---     | --- | ---  |
| 12    | 170     | 150 | 159  | 119      | 109 | 118  | 94       | 90  | 92   | ---     | --- | ---  |
| 13    | 172     | 165 | 168  | 119      | 107 | 115  | 90       | 84  | 88   | ---     | --- | ---  |
| 14    | 166     | 159 | 163  | 120      | 115 | 117  | 87       | 84  | 85   | ---     | --- | ---  |
| 15    | 165     | 160 | 164  | 121      | 115 | 118  | 90       | 88  | 89   | ---     | --- | ---  |
| 16    | 163     | 154 | 157  | 122      | 119 | 121  | 91       | 82  | 88   | ---     | --- | ---  |
| 17    | 163     | 149 | 155  | 120      | 105 | 114  | 87       | 81  | 84   | ---     | --- | ---  |
| 18    | 159     | 151 | 156  | 118      | 94  | 110  | 88       | 83  | 85   | ---     | --- | ---  |
| 19    | 155     | 151 | 152  | 106      | 91  | 95   | 89       | 86  | 88   | ---     | --- | ---  |
| 20    | 153     | 141 | 148  | 105      | 72  | 90   | 88       | 82  | 85   | ---     | --- | ---  |
| 21    | 146     | 142 | 144  | 120      | 80  | 108  | 84       | 74  | 79   | ---     | --- | ---  |
| 22    | 143     | 109 | 130  | 140      | 112 | 124  | 87       | 75  | 80   | ---     | --- | ---  |
| 23    | 123     | 98  | 111  | 113      | 108 | 111  | 79       | 60  | 69   | ---     | --- | ---  |
| 24    | 120     | 100 | 110  | 110      | 104 | 107  | 76       | 61  | 66   | ---     | --- | ---  |
| 25    | 127     | 101 | 115  | 110      | 105 | 107  | 79       | 75  | 77   | ---     | --- | ---  |
| 26    | 143     | 131 | 137  | 109      | 104 | 106  | 79       | 62  | 69   | ---     | --- | ---  |
| 27    | 141     | 132 | 137  | 105      | 87  | 98   | 86       | 62  | 73   | ---     | --- | ---  |
| 28    | 136     | 133 | 135  | 96       | 75  | 88   | 94       | 81  | 88   | ---     | --- | ---  |
| 29    | 137     | 132 | 134  | 99       | 81  | 91   | 81       | 78  | 80   | ---     | --- | ---  |
| 30    | 138     | 133 | 136  | 113      | 92  | 106  | 82       | 75  | 80   | ---     | --- | ---  |
| 31    | 140     | 136 | 138  | ---      | --- | ---  | 80       | 76  | 77   | ---     | --- | ---  |
| MONTH | 182     | 98  | 150  | 140      | 72  | 114  | 126      | 60  | 90   | ---     | --- | ---  |



## PH (STANDARD UNITS), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DAY   | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
|-------|---------|-----|----------|-----|----------|-----|---------|-----|----------|-----|-----------|-----|
|       | OCTOBER |     | NOVEMBER |     | DECEMBER |     | JANUARY |     | FEBRUARY |     | MARCH     |     |
| 1     | 7.6     | 7.1 | 7.0      | 6.7 | 7.1      | 7.0 | 6.6     | 6.5 | 7.0      | 6.8 | 6.6       | 6.5 |
| 2     | 7.6     | 7.3 | 7.0      | 6.9 | 7.1      | 7.0 | 6.9     | 6.7 | 6.8      | 6.6 | 6.7       | 6.5 |
| 3     | 7.4     | 7.3 | 6.9      | 6.7 | 7.1      | 6.9 | 6.7     | 6.6 | 6.6      | 6.6 | 6.8       | 6.6 |
| 4     | 7.4     | 7.3 | 6.9      | 6.7 | 6.9      | 6.8 | 6.7     | 6.7 | 6.6      | 6.6 | 6.8       | 6.7 |
| 5     | 7.4     | 7.3 | 6.9      | 6.8 | 6.8      | 6.6 | 6.8     | 6.6 | 6.8      | 6.6 | 7.0       | 6.7 |
| 6     | 7.4     | 7.3 | 7.4      | 6.7 | 6.7      | 6.5 | 6.9     | 6.7 | 6.8      | 6.7 | 7.1       | 6.9 |
| 7     | 7.4     | 7.3 | 7.2      | 6.7 | 6.8      | 6.5 | 7.0     | 6.9 | 6.7      | 6.6 | 7.1       | 6.9 |
| 8     | 7.4     | 7.1 | 7.2      | 6.6 | 6.9      | 6.6 | 7.0     | 6.7 | 6.9      | 6.6 | 7.0       | 6.7 |
| 9     | 7.4     | 7.2 | 7.2      | 7.0 | 6.7      | 6.5 | 6.9     | 6.6 | 6.9      | 6.8 | 7.0       | 6.9 |
| 10    | 7.2     | 7.0 | 7.0      | 6.7 | 6.8      | 6.6 | 6.8     | 6.6 | 6.9      | 6.8 | 6.9       | 6.8 |
| 11    | 7.1     | 6.9 | 6.8      | 6.7 | 6.7      | 6.6 | 6.8     | 6.7 | 6.8      | 6.7 | 6.8       | 6.7 |
| 12    | 7.3     | 7.1 | 7.2      | 6.8 | 6.7      | 6.6 | 6.8     | 6.7 | 6.9      | 6.7 | 6.9       | 6.7 |
| 13    | 7.3     | 7.0 | 7.2      | 6.9 | 6.7      | 6.5 | 7.0     | 6.8 | 6.9      | 6.9 | 6.8       | 6.6 |
| 14    | 7.1     | 7.0 | 7.4      | 7.1 | 6.6      | 6.4 | 7.1     | 7.0 | 6.9      | 6.6 | 6.7       | 6.6 |
| 15    | 7.1     | 7.0 | 7.4      | 7.1 | 6.7      | 6.7 | 7.0     | 6.8 | 6.8      | 6.5 | 6.9       | 6.6 |
| 16    | 7.1     | 7.0 | 7.3      | 7.2 | 6.7      | 6.5 | 6.8     | 6.7 | 6.8      | 6.5 | 6.9       | 6.7 |
| 17    | 7.2     | 7.1 | 7.2      | 6.9 | 6.4      | 6.4 | 6.9     | 6.8 | 6.6      | 6.5 | 6.9       | 6.7 |
| 18    | 7.2     | 7.0 | 7.0      | 6.7 | 6.6      | 6.4 | 6.8     | 6.7 | 6.8      | 6.6 | 6.9       | 6.6 |
| 19    | 7.2     | 7.0 | 7.0      | 6.6 | 6.6      | 6.5 | 7.2     | 6.8 | 7.0      | 6.7 | 6.9       | 6.8 |
| 20    | 7.3     | 7.0 | 7.0      | 6.4 | 6.6      | 6.4 | 7.4     | 7.0 | 7.2      | 6.9 | 7.1       | 6.8 |
| 21    | 7.3     | 7.0 | 6.9      | 6.5 | 6.6      | 6.4 | 7.1     | 6.7 | 7.2      | 7.0 | 7.1       | 6.9 |
| 22    | 7.2     | 6.8 | 6.9      | 6.7 | 6.7      | 6.4 | 7.1     | 6.8 | 7.3      | 7.0 | 7.0       | 6.4 |
| 23    | 6.9     | 6.7 | 6.8      | 6.7 | 6.5      | 6.2 | 6.8     | 6.7 | 7.3      | 7.1 | 6.5       | 6.4 |
| 24    | 6.8     | 6.6 | 6.9      | 6.8 | 6.4      | 6.2 | 6.7     | 6.6 | 7.3      | 7.0 | 6.8       | 6.5 |
| 25    | 6.9     | 6.6 | 6.9      | 6.8 | 6.8      | 6.7 | 6.8     | 6.7 | 7.3      | 7.1 | 6.9       | 6.5 |
| 26    | 7.0     | 6.8 | 6.9      | 6.9 | 6.8      | 6.2 | 6.8     | 6.6 | 7.3      | 6.8 | 7.0       | 6.8 |
| 27    | 7.0     | 6.8 | 6.9      | 6.6 | 6.7      | 6.4 | 6.9     | 6.8 | 7.1      | 6.8 | 7.0       | 6.9 |
| 28    | 6.9     | 6.8 | 6.7      | 6.4 | 6.8      | 6.7 | 6.9     | 6.8 | 7.1      | 6.7 | 7.2       | 6.9 |
| 29    | 6.9     | 6.8 | 6.7      | 6.5 | 6.9      | 6.8 | 6.9     | 6.8 | ---      | --- | 7.2       | 7.0 |
| 30    | 7.1     | 6.8 | 7.0      | 6.7 | 6.9      | 6.5 | 6.9     | 6.8 | ---      | --- | 7.2       | 7.0 |
| 31    | 7.1     | 6.9 | ---      | --- | 6.6      | 6.5 | 6.9     | 6.8 | ---      | --- | 7.2       | 7.1 |
| MONTH | 7.6     | 6.6 | 7.4      | 6.4 | 7.1      | 6.2 | 7.4     | 6.5 | 7.3      | 6.5 | 7.2       | 6.4 |
|       | APRIL   |     | MAY      |     | JUNE     |     | JULY    |     | AUGUST   |     | SEPTEMBER |     |
| 1     | 7.2     | 7.1 | 6.6      | 6.5 | 7.0      | 6.9 | 7.9     | 7.5 | 7.7      | 7.1 | 7.3       | 7.1 |
| 2     | 7.3     | 7.1 | 7.0      | 6.7 | 7.0      | 6.9 | 7.9     | 7.5 | 7.9      | 7.5 | 7.4       | 7.2 |
| 3     | 7.2     | 7.1 | 7.3      | 7.0 | 7.1      | 6.8 | 7.6     | 7.4 | 7.8      | 7.5 | 7.3       | 7.2 |
| 4     | 7.2     | 7.1 | 7.5      | 6.8 | 7.4      | 6.9 | 7.5     | 7.4 | 7.5      | 7.3 | 7.5       | 7.4 |
| 5     | 7.3     | 7.1 | 6.9      | 6.7 | 7.6      | 7.2 | 7.6     | 7.2 | 7.5      | 7.3 | 7.6       | 7.5 |
| 6     | 7.1     | 7.1 | 6.9      | 6.7 | 7.8      | 7.2 | 7.5     | 7.3 | 7.5      | 7.3 | 7.5       | 7.3 |
| 7     | 7.1     | 7.0 | 6.7      | 6.7 | 7.3      | 7.1 | 7.5     | 7.4 | 7.5      | 7.3 | 7.3       | 7.0 |
| 8     | 7.1     | 7.0 | 7.1      | 6.7 | 7.3      | 7.1 | 7.5     | 7.1 | 7.6      | 7.3 | 7.2       | 7.1 |
| 9     | 7.1     | 7.1 | 7.0      | 6.9 | 7.3      | 7.0 | 7.4     | 7.2 | 7.7      | 7.4 | 7.4       | 7.1 |
| 10    | 7.1     | 7.0 | 7.0      | 6.7 | 7.4      | 7.1 | 7.3     | 7.1 | 7.7      | 7.2 | 7.4       | 7.3 |
| 11    | 7.1     | 6.9 | 6.9      | 6.7 | 7.5      | 7.3 | 7.3     | 7.1 | 7.4      | 7.2 | 7.6       | 7.2 |
| 12    | 7.1     | 7.0 | 7.1      | 6.7 | 8.1      | 7.2 | 7.3     | 7.0 | 7.4      | 7.1 | 7.7       | 7.6 |
| 13    | 7.0     | 6.9 | 7.1      | 6.9 | 7.8      | 7.5 | 7.3     | 7.0 | 7.4      | 7.0 | 7.8       | 7.7 |
| 14    | 7.0     | 6.8 | 7.1      | 6.9 | 7.7      | 7.3 | 7.3     | 7.1 | 7.5      | 7.0 | 7.8       | 7.4 |
| 15    | 7.1     | 6.8 | 7.1      | 6.9 | 7.5      | 7.2 | 7.5     | 7.1 | 7.2      | 7.0 | 7.5       | 7.3 |
| 16    | 7.2     | 7.0 | 7.1      | 6.9 | 7.5      | 7.2 | 7.4     | 7.2 | 7.2      | 7.1 | 7.4       | 7.3 |
| 17    | 7.3     | 7.0 | 7.2      | 6.9 | 7.5      | 7.2 | 7.8     | 7.3 | 7.5      | 7.0 | 7.6       | 7.4 |
| 18    | 7.4     | 7.0 | 7.3      | 7.0 | 7.5      | 7.3 | 7.8     | 7.3 | 7.5      | 6.9 | 7.6       | 7.3 |
| 19    | 7.3     | 7.2 | 7.3      | 7.0 | 7.8      | 7.2 | 7.5     | 7.3 | 7.2      | 6.9 | 7.7       | 7.4 |
| 20    | 7.4     | 7.2 | 7.1      | 7.0 | 7.8      | 7.3 | 7.4     | 7.3 | 7.2      | 6.9 | 7.7       | 7.3 |
| 21    | 7.3     | 7.2 | 7.2      | 7.0 | 7.5      | 7.3 | 7.3     | 7.2 | 7.2      | 6.9 | 7.6       | 7.3 |
| 22    | 7.2     | 7.1 | 7.3      | 7.0 | 7.4      | 7.3 | 7.2     | 7.0 | 7.5      | 7.0 | 7.4       | 7.2 |
| 23    | 7.3     | 7.2 | 7.4      | 7.1 | 7.4      | 7.2 | 7.6     | 7.1 | 7.3      | 6.8 | 7.6       | 7.2 |
| 24    | 7.3     | 6.7 | 7.4      | 7.1 | 7.4      | 7.2 | 7.6     | 7.3 | 7.0      | 6.9 | 7.8       | 7.4 |
| 25    | 7.0     | 6.8 | 7.5      | 7.0 | 7.7      | 7.2 | 7.5     | 7.4 | 7.2      | 7.0 | 7.8       | 7.4 |
| 26    | 6.8     | 6.6 | 7.3      | 7.0 | 7.5      | 7.4 | 7.5     | 7.3 | 7.2      | 7.0 | 7.8       | 7.5 |
| 27    | 6.9     | 6.7 | 7.2      | 7.1 | 7.8      | 7.2 | 7.4     | 7.3 | 7.9      | 7.4 | 7.8       | 7.5 |
| 28    | 6.8     | 6.7 | 7.4      | 7.0 | 7.7      | 7.2 | 7.4     | 7.1 | 8.0      | 7.5 | 7.8       | 7.5 |
| 29    | 6.7     | 6.6 | 7.4      | 7.0 | 7.4      | 7.3 | 7.2     | 7.1 | 8.0      | 7.5 | 7.7       | 7.3 |
| 30    | 6.7     | 6.6 | 7.1      | 7.0 | 8.0      | 7.4 | 7.2     | 7.0 | 7.8      | 7.1 | 7.4       | 7.2 |
| 31    | ---     | --- | 7.2      | 7.0 | ---      | --- | 7.6     | 7.0 | 7.4      | 7.1 | ---       | --- |
| MONTH | 7.4     | 6.6 | 7.5      | 6.5 | 8.1      | 6.8 | 7.9     | 7.0 | 8.0      | 6.8 | 7.8       | 7.0 |
| YEAR  | 8.1     | 6.2 |          |     |          |     |         |     |          |     |           |     |

## TENNESSEE RIVER BASIN

03592824 TENNESSEE-TOMBIGBEE WATERWAY AT CROSS ROADS, MS--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DAY      | MAX  | MIN  | MEAN | MAX      | MIN  | MEAN | MAX      | MIN  | MEAN | MAX     | MIN  | MEAN |
|----------|------|------|------|----------|------|------|----------|------|------|---------|------|------|
| OCTOBER  |      |      |      | NOVEMBER |      |      | DECEMBER |      |      | JANUARY |      |      |
| 1        | 21.0 | 19.5 | 20.0 | 22.5     | 22.0 | 22.5 | 11.0     | 10.0 | 10.5 | 15.0    | 13.5 | 14.5 |
| 2        | 20.0 | 19.0 | 19.5 | 21.5     | 20.0 | 20.5 | 11.0     | 10.5 | 10.5 | 13.5    | 12.0 | 12.5 |
| 3        | 20.0 | 19.0 | 19.5 | 20.0     | 18.5 | 19.5 | 11.0     | 10.0 | 10.5 | 12.5    | 10.0 | 11.0 |
| 4        | 19.5 | 19.0 | 19.5 | 19.0     | 18.5 | 18.5 | 10.0     | 9.0  | 9.5  | 10.0    | 7.0  | 9.0  |
| 5        | 20.0 | 19.0 | 19.5 | 19.0     | 18.0 | 18.5 | 9.0      | 8.5  | 9.0  | 8.0     | 6.5  | 7.5  |
| 6        | 20.5 | 19.5 | 20.0 | 18.5     | 17.0 | 17.5 | 8.5      | 7.0  | 8.0  | 7.0     | 5.5  | 6.5  |
| 7        | 20.5 | 20.0 | 20.0 | 17.5     | 16.5 | 17.0 | 7.5      | 6.0  | 7.0  | 6.5     | 5.5  | 6.0  |
| 8        | 21.0 | 20.0 | 20.0 | 17.0     | 16.0 | 16.5 | 7.5      | 6.0  | 7.0  | 6.5     | 5.5  | 6.0  |
| 9        | 21.0 | 20.5 | 20.5 | 16.5     | 16.0 | 16.0 | 8.0      | 6.5  | 7.5  | 6.5     | 5.5  | 6.0  |
| 10       | 21.0 | 20.5 | 21.0 | 16.5     | 16.0 | 16.0 | 9.0      | 8.0  | 8.5  | 6.5     | 6.0  | 6.5  |
| 11       | 21.5 | 20.5 | 21.0 | 15.5     | 14.5 | 15.0 | 8.5      | 8.5  | 8.5  | 6.5     | 5.5  | 6.0  |
| 12       | 22.5 | 21.5 | 22.0 | 14.0     | 13.0 | 13.5 | 9.0      | 8.0  | 8.5  | 6.0     | 5.0  | 5.5  |
| 13       | 22.5 | 22.0 | 22.0 | 13.5     | 13.0 | 13.0 | 10.0     | 9.0  | 9.5  | 5.0     | 3.5  | 4.0  |
| 14       | 22.0 | 21.5 | 22.0 | 13.0     | 12.5 | 13.0 | 11.0     | 10.0 | 10.5 | 4.0     | 3.5  | 3.5  |
| 15       | 22.5 | 22.0 | 22.0 | 13.5     | 12.5 | 13.0 | 11.5     | 10.5 | 11.0 | 5.0     | 3.5  | 4.5  |
| 16       | 22.5 | 22.0 | 22.0 | 13.5     | 13.0 | 13.0 | 12.0     | 11.0 | 11.5 | 4.5     | 4.5  | 4.5  |
| 17       | 23.0 | 22.5 | 23.0 | 13.0     | 12.0 | 12.5 | 12.5     | 12.0 | 12.0 | 4.5     | 4.0  | 4.0  |
| 18       | 23.0 | 22.5 | 23.0 | 12.5     | 12.5 | 12.5 | 13.0     | 12.5 | 12.5 | 4.5     | 4.0  | 4.5  |
| 19       | 23.0 | 23.0 | 23.0 | 12.5     | 11.0 | 12.0 | 13.5     | 13.0 | 13.0 | 5.0     | 4.0  | 4.5  |
| 20       | 23.0 | 23.0 | 23.0 | 11.5     | 10.5 | 11.0 | 13.5     | 13.5 | 13.5 | 4.0     | 2.0  | 2.5  |
| 21       | 23.0 | 22.5 | 22.5 | 11.0     | 10.0 | 10.5 | 14.5     | 13.5 | 14.0 | 3.0     | 2.0  | 2.5  |
| 22       | 22.5 | 21.0 | 22.0 | 11.0     | 9.5  | 10.0 | 14.5     | 14.0 | 14.5 | 2.0     | 1.5  | 2.0  |
| 23       | 21.0 | 20.0 | 20.5 | 9.5      | 9.0  | 9.5  | 14.0     | 13.5 | 13.5 | 2.5     | 1.5  | 2.0  |
| 24       | 20.0 | 19.0 | 19.5 | 9.5      | 8.5  | 9.0  | 13.5     | 13.5 | 13.5 | 2.5     | 1.5  | 2.5  |
| 25       | 20.5 | 19.0 | 20.0 | 10.0     | 9.5  | 9.5  | 13.0     | 12.0 | 12.5 | 3.0     | 2.0  | 2.5  |
| 26       | 21.5 | 20.5 | 21.0 | 10.5     | 9.5  | 10.0 | 12.0     | 11.5 | 12.0 | 3.0     | 2.0  | 2.5  |
| 27       | 21.5 | 21.0 | 21.5 | 11.0     | 10.5 | 10.5 | 12.5     | 11.5 | 12.0 | 3.0     | 2.5  | 2.5  |
| 28       | 22.0 | 21.0 | 21.5 | 11.5     | 10.5 | 11.0 | 13.5     | 12.5 | 13.0 | 2.5     | 2.0  | 2.5  |
| 29       | 22.0 | 21.5 | 22.0 | 10.5     | 10.0 | 10.0 | 13.5     | 13.0 | 13.5 | 2.5     | 2.0  | 2.5  |
| 30       | 22.5 | 21.5 | 22.0 | 11.0     | 10.0 | 10.5 | 14.5     | 13.5 | 14.0 | 3.0     | 2.5  | 3.0  |
| 31       | 23.0 | 22.0 | 22.5 | ---      | ---  | ---  | 15.0     | 14.0 | 14.5 | 3.0     | 2.5  | 3.0  |
| MONTH    | 23.0 | 19.0 | 21.0 | 22.5     | 8.5  | 13.5 | 15.0     | 6.0  | 11.0 | 15.0    | 1.5  | 5.0  |
| FEBRUARY |      |      |      | MARCH    |      |      | APRIL    |      |      | MAY     |      |      |
| 1        | 2.5  | 1.0  | 1.5  | 12.0     | 11.5 | 11.5 | 17.0     | 16.0 | 16.5 | 21.5    | 21.0 | 21.0 |
| 2        | 1.5  | .5   | 1.0  | 12.0     | 11.5 | 11.5 | 17.0     | 15.5 | 16.5 | 22.0    | 21.5 | 22.0 |
| 3        | 1.5  | 1.0  | 1.5  | 12.5     | 11.5 | 12.0 | 16.5     | 16.0 | 16.5 | 22.0    | 21.5 | 21.5 |
| 4        | 1.5  | 1.0  | 1.5  | 13.0     | 12.5 | 12.5 | 18.0     | 16.5 | 17.0 | 22.0    | 21.0 | 21.5 |
| 5        | 1.5  | 1.0  | 1.0  | 13.0     | 12.0 | 12.5 | 17.5     | 16.5 | 17.0 | 21.5    | 21.0 | 21.0 |
| 6        | 1.5  | 1.0  | 1.5  | 12.5     | 11.5 | 12.0 | 17.0     | 16.0 | 16.5 | 22.0    | 21.0 | 21.5 |
| 7        | 2.0  | 1.0  | 1.5  | 13.0     | 12.0 | 12.5 | 17.5     | 16.5 | 17.0 | 22.0    | 21.5 | 22.0 |
| 8        | 2.0  | 1.5  | 2.0  | 13.5     | 12.5 | 13.0 | 17.5     | 16.5 | 17.0 | 22.0    | 21.5 | 22.0 |
| 9        | 2.5  | 2.0  | 2.0  | 15.0     | 13.5 | 14.0 | 17.0     | 15.5 | 16.0 | 22.0    | 21.5 | 21.5 |
| 10       | 3.5  | 2.5  | 3.0  | 14.5     | 13.5 | 14.0 | 16.5     | 16.0 | 16.0 | 21.5    | 20.5 | 20.5 |
| 11       | 4.0  | 3.0  | 3.5  | 14.5     | 14.0 | 14.0 | 16.5     | 16.0 | 16.0 | 21.5    | 20.5 | 21.0 |
| 12       | 3.5  | 2.5  | 3.0  | 15.0     | 14.5 | 14.5 | 16.5     | 16.5 | 16.5 | 23.0    | 21.5 | 22.0 |
| 13       | 2.5  | 2.0  | 2.5  | 15.0     | 14.0 | 14.5 | 16.5     | 16.5 | 16.5 | 23.0    | 22.5 | 22.5 |
| 14       | 3.5  | 2.5  | 3.0  | 15.0     | 14.0 | 14.5 | 17.5     | 16.5 | 17.0 | 23.5    | 22.5 | 23.0 |
| 15       | 4.0  | 3.0  | 3.5  | 14.5     | 13.5 | 14.0 | 17.5     | 17.0 | 17.0 | 24.5    | 22.5 | 24.0 |
| 16       | 4.5  | 3.0  | 3.5  | 14.5     | 13.5 | 14.0 | 18.5     | 17.0 | 17.5 | 24.5    | 23.5 | 24.0 |
| 17       | 5.0  | 4.0  | 4.5  | 15.5     | 14.0 | 14.5 | 18.5     | 18.0 | 18.5 | 24.0    | 22.5 | 23.5 |
| 18       | 5.5  | 5.0  | 5.0  | 14.5     | 13.0 | 14.0 | 19.5     | 18.5 | 19.0 | 23.5    | 21.5 | 22.0 |
| 19       | 5.5  | 5.5  | 5.5  | 14.0     | 13.5 | 13.5 | 20.5     | 19.0 | 19.5 | 23.0    | 22.0 | 22.5 |
| 20       | 6.5  | 5.5  | 6.0  | 14.0     | 13.5 | 14.0 | 20.5     | 19.5 | 20.0 | 23.0    | 22.0 | 22.5 |
| 21       | 7.5  | 6.5  | 7.0  | 14.0     | 13.5 | 13.5 | 21.0     | 19.0 | 20.0 | 22.5    | 22.0 | 22.5 |
| 22       | 9.0  | 7.5  | 8.0  | 13.5     | 12.5 | 13.0 | 21.0     | 20.0 | 21.0 | 23.0    | 22.0 | 22.5 |
| 23       | 11.0 | 8.5  | 9.5  | 13.5     | 12.5 | 13.0 | 21.0     | 20.0 | 20.5 | 22.5    | 22.0 | 22.0 |
| 24       | 12.0 | 11.0 | 11.5 | 14.5     | 13.5 | 14.0 | 22.0     | 19.5 | 20.5 | 23.5    | 22.0 | 22.5 |
| 25       | 11.5 | 11.0 | 11.0 | 15.0     | 13.5 | 14.5 | 21.0     | 20.5 | 20.5 | 24.0    | 22.5 | 23.0 |
| 26       | 12.5 | 11.0 | 11.5 | 15.5     | 14.5 | 14.5 | 21.5     | 20.5 | 20.5 | 24.0    | 23.0 | 23.0 |
| 27       | 12.0 | 11.5 | 12.0 | 15.0     | 14.5 | 15.0 | 22.0     | 20.5 | 21.0 | 24.0    | 23.0 | 23.5 |
| 28       | 12.0 | 11.0 | 11.5 | 17.0     | 14.5 | 15.5 | 22.5     | 21.0 | 21.5 | 25.5    | 23.0 | 24.0 |
| 29       | ---  | ---  | ---  | 17.0     | 16.0 | 17.0 | 22.0     | 21.5 | 21.5 | 25.5    | 23.5 | 24.5 |
| 30       | ---  | ---  | ---  | 17.5     | 16.5 | 17.0 | 22.5     | 21.5 | 22.0 | 25.0    | 23.5 | 24.5 |
| 31       | ---  | ---  | ---  | 17.5     | 17.0 | 17.5 | ---      | ---  | ---  | 25.0    | 24.0 | 24.5 |
| MONTH    | 12.5 | .5   | 5.0  | 17.5     | 11.5 | 14.0 | 22.5     | 15.5 | 18.5 | 25.5    | 20.5 | 22.5 |



## TENNESSEE RIVER BASIN

03592824 TENNESSEE-TOMBIGBEE WATERWAY AT CROSS ROADS, MS--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DAY   | MAX  | MIN  | MEAN | MAX  | MIN  | MEAN | MAX    | MIN  | MEAN | MAX       | MIN  | MEAN |
|-------|------|------|------|------|------|------|--------|------|------|-----------|------|------|
|       | JUNE |      |      | JULY |      |      | AUGUST |      |      | SEPTEMBER |      |      |
| 1     | 24.5 | 23.5 | 24.5 | 27.5 | 27.0 | 27.5 | 30.5   | 28.5 | 29.0 | 30.0      | 29.0 | 29.5 |
| 2     | 26.0 | 24.5 | 25.0 | 28.5 | 26.5 | 27.0 | 30.5   | 29.5 | 30.0 | 30.0      | 29.0 | 29.5 |
| 3     | 26.5 | 24.5 | 25.0 | 28.0 | 27.0 | 27.5 | 29.0   | 28.5 | 28.5 | 29.0      | 28.5 | 28.5 |
| 4     | 26.0 | 25.0 | 25.5 | 27.5 | 27.0 | 27.0 | 29.0   | 28.0 | 28.5 | 28.5      | 27.5 | 28.0 |
| 5     | 27.5 | 25.0 | 26.0 | 28.0 | 27.0 | 27.5 | 28.5   | 27.5 | 28.0 | 28.0      | 27.5 | 27.5 |
| 6     | 28.0 | 26.0 | 27.0 | 28.0 | 27.0 | 27.5 | 27.5   | 27.0 | 27.5 | 28.0      | 27.5 | 27.5 |
| 7     | 28.0 | 27.0 | 28.0 | 28.5 | 27.5 | 28.0 | 27.5   | 27.5 | 27.5 | 28.5      | 27.5 | 28.0 |
| 8     | 27.5 | 27.0 | 27.5 | 28.0 | 28.0 | 28.0 | 29.0   | 27.5 | 28.0 | 29.0      | 28.0 | 28.5 |
| 9     | 28.0 | 27.0 | 27.5 | 29.0 | 27.5 | 28.0 | 30.0   | 27.0 | 29.0 | 29.5      | 28.0 | 28.5 |
| 10    | 28.5 | 27.5 | 28.0 | 28.5 | 27.5 | 28.0 | 30.5   | 29.5 | 30.0 | 29.5      | 28.5 | 29.0 |
| 11    | 28.5 | 28.0 | 28.0 | 30.0 | 28.0 | 29.0 | 30.5   | 29.5 | 30.0 | 29.5      | 29.0 | 29.0 |
| 12    | 28.0 | 26.5 | 27.5 | 30.5 | 28.0 | 29.0 | 31.0   | 29.0 | 29.5 | 29.5      | 28.5 | 28.5 |
| 13    | 27.0 | 26.0 | 26.5 | 30.5 | 28.5 | 30.0 | 30.5   | 29.5 | 30.0 | 28.0      | 26.5 | 27.0 |
| 14    | 26.5 | 26.0 | 26.5 | 31.0 | 30.0 | 30.5 | 30.0   | 29.5 | 30.0 | 26.5      | 25.0 | 25.5 |
| 15    | 26.5 | 26.0 | 26.5 | 30.5 | 29.5 | 30.0 | 29.5   | 29.0 | 29.5 | 26.0      | 26.0 | 26.0 |
| 16    | 27.5 | 26.5 | 27.0 | 30.0 | 29.5 | 29.5 | 29.5   | 28.0 | 29.0 | 26.0      | 25.0 | 25.5 |
| 17    | 28.5 | 27.0 | 27.5 | 30.5 | 28.5 | 29.5 | 28.0   | 26.5 | 27.5 | 25.0      | 24.5 | 24.5 |
| 18    | 27.5 | 27.0 | 27.0 | 30.0 | 29.0 | 29.5 | 28.0   | 27.0 | 27.5 | 25.0      | 24.0 | 24.5 |
| 19    | 27.5 | 26.5 | 27.0 | 30.5 | 29.0 | 29.5 | 29.0   | 28.0 | 28.5 | 25.5      | 24.5 | 24.5 |
| 20    | 27.0 | 26.5 | 27.0 | 30.5 | 29.5 | 30.0 | 29.0   | 28.0 | 28.5 | 25.5      | 24.5 | 25.0 |
| 21    | 27.0 | 26.5 | 27.0 | 31.0 | 30.0 | 30.0 | 29.0   | 28.0 | 28.0 | 26.0      | 25.0 | 25.5 |
| 22    | 27.0 | 26.5 | 27.0 | 30.5 | 29.5 | 30.0 | 29.0   | 28.0 | 28.5 | 25.5      | 25.0 | 25.5 |
| 23    | 27.5 | 26.5 | 27.0 | 30.0 | 29.5 | 30.0 | 29.0   | 28.0 | 28.5 | 25.5      | 25.0 | 25.0 |
| 24    | 28.5 | 27.0 | 27.5 | 30.0 | 29.5 | 30.0 | 28.0   | 27.5 | 28.0 | 25.0      | 23.5 | 24.0 |
| 25    | 28.5 | 27.0 | 27.5 | 30.0 | 29.0 | 29.5 | 27.5   | 27.0 | 27.0 | 24.0      | 23.0 | 23.5 |
| 26    | 29.5 | 28.5 | 29.0 | 29.5 | 28.5 | 29.0 | 27.0   | 26.5 | 27.0 | 24.0      | 23.0 | 23.0 |
| 27    | 29.5 | 28.0 | 28.5 | 28.5 | 28.0 | 28.5 | 28.0   | 27.0 | 27.5 | 23.0      | 22.5 | 22.5 |
| 28    | 29.0 | 28.0 | 28.5 | 28.0 | 27.0 | 27.5 | 28.0   | 27.0 | 27.5 | 22.5      | 22.0 | 22.0 |
| 29    | 28.5 | 28.0 | 28.0 | 28.0 | 27.0 | 27.5 | 29.0   | 28.0 | 28.5 | 22.5      | 22.0 | 22.0 |
| 30    | 28.0 | 27.0 | 27.5 | 28.5 | 27.5 | 28.0 | 29.0   | 28.0 | 29.0 | 22.0      | 21.5 | 22.0 |
| 31    | ---  | ---  | ---  | 28.5 | 27.5 | 28.0 | 29.5   | 28.0 | 29.0 | ---       | ---  | ---  |
| MONTH | 29.5 | 23.5 | 27.0 | 31.0 | 26.5 | 28.5 | 31.0   | 26.5 | 28.5 | 30.0      | 21.5 | 26.0 |
| YEAR  | 31.0 | .5   | 18.5 |      |      |      |        |      |      |           |      |      |

TURBIDITY (NTU), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DAY   | MAX     | MIN | MEAN | MAX      | MIN | MEAN | MAX      | MIN | MEAN | MAX     | MIN | MEAN |
|-------|---------|-----|------|----------|-----|------|----------|-----|------|---------|-----|------|
|       | OCTOBER |     |      | NOVEMBER |     |      | DECEMBER |     |      | JANUARY |     |      |
| 1     | 50      | 30  | 40   | 140      | 45  | 70   | 45       | 40  | 45   | 65      | 55  | 55   |
| 2     | 35      | 30  | 30   | 110      | 70  | 80   | 50       | 40  | 45   | 60      | 50  | 55   |
| 3     | 30      | 20  | 25   | 150      | 80  | 110  | 50       | 35  | 45   | 60      | 55  | 55   |
| 4     | 30      | 25  | 25   | 140      | 90  | 120  | 70       | 45  | 55   | 65      | 55  | 60   |
| 5     | 30      | 20  | 25   | 140      | 70  | 95   | 65       | 45  | 55   | 65      | 55  | 55   |
| 6     | 30      | 20  | 25   | 120      | 35  | 60   | 50       | 40  | 45   | 55      | 50  | 50   |
| 7     | 30      | 20  | 25   | 100      | 35  | 70   | 45       | 40  | 45   | 50      | 45  | 45   |
| 8     | 55      | 25  | 35   | 100      | 40  | 75   | 45       | 45  | 45   | 55      | 45  | 50   |
| 9     | 40      | 25  | 30   | 65       | 30  | 40   | 60       | 40  | 45   | 50      | 50  | 50   |
| 10    | 40      | 25  | 30   | 110      | 45  | 80   | 50       | 40  | 45   | 50      | 45  | 45   |
| 11    | 35      | 30  | 30   | 85       | 65  | 80   | 50       | 45  | 45   | 50      | 45  | 45   |
| 12    | 35      | 20  | 30   | 75       | 45  | 50   | 55       | 45  | 50   | 50      | 45  | 45   |
| 13    | 30      | 20  | 25   | 140      | 40  | 80   | 50       | 45  | 50   | 50      | 45  | 45   |
| 14    | 30      | 20  | 25   | 90       | 40  | 65   | 55       | 45  | 45   | 50      | 40  | 40   |
| 15    | 30      | 20  | 25   | 140      | 45  | 80   | 60       | 45  | 50   | 50      | 45  | 45   |
| 16    | 30      | 20  | 25   | 60       | 40  | 50   | 50       | 45  | 45   | 60      | 45  | 45   |
| 17    | 30      | 20  | 25   | 260      | 45  | 120  | 60       | 50  | 50   | 60      | 50  | 50   |
| 18    | 30      | 25  | 25   | 190      | 90  | 140  | 60       | 50  | 55   | 95      | 50  | 55   |
| 19    | 30      | 20  | 20   | 150      | 85  | 95   | 55       | 40  | 45   | 55      | 45  | 50   |
| 20    | 30      | 20  | 25   | 120      | 80  | 95   | 55       | 45  | 50   | 50      | 45  | 45   |
| 21    | 30      | 20  | 25   | 120      | 75  | 90   | 75       | 45  | 55   | 50      | 40  | 45   |
| 22    | 45      | 20  | 30   | 85       | 60  | 75   | 70       | 50  | 60   | 70      | 40  | 50   |
| 23    | 65      | 40  | 40   | 90       | 65  | 80   | 70       | 60  | 65   | 60      | 45  | 50   |
| 24    | 60      | 45  | 50   | 85       | 65  | 75   | 70       | 60  | 65   | 55      | 45  | 50   |
| 25    | 60      | 35  | 45   | 85       | 55  | 65   | 70       | 60  | 65   | 55      | 45  | 50   |
| 26    | 45      | 25  | 30   | 80       | 55  | 60   | 75       | 60  | 65   | 55      | 45  | 45   |
| 27    | 40      | 25  | 30   | 80       | 50  | 60   | 70       | 60  | 65   | 50      | 45  | 45   |
| 28    | 45      | 30  | 35   | 85       | 70  | 75   | 65       | 50  | 55   | 45      | 45  | 45   |
| 29    | 55      | 35  | 40   | 85       | 65  | 75   | 60       | 55  | 55   | 70      | 45  | 50   |
| 30    | 50      | 25  | 35   | 75       | 45  | 55   | 60       | 50  | 55   | 55      | 45  | 45   |
| 31    | 100     | 30  | 55   | ---      | --- | ---  | 60       | 55  | 55   | 50      | 45  | 45   |
| MONTH | 100     | 20  | 31   | 260      | 30  | 80   | 75       | 35  | 50   | 95      | 40  | 50   |

03592824 TENNESSEE-TOMBIGBEE WATERWAY AT CROSS ROADS, MS--Continued

TURBIDITY (NTU), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DAY   | MAX      | MIN | MEAN | MAX   | MIN | MEAN | MAX    | MIN | MEAN | MAX       | MIN | MEAN |
|-------|----------|-----|------|-------|-----|------|--------|-----|------|-----------|-----|------|
|       | FEBRUARY |     |      | MARCH |     |      | APRIL  |     |      | MAY       |     |      |
| 1     | 55       | 45  | 50   | 50    | 45  | 45   | 55     | 30  | 35   | 50        | 30  | 40   |
| 2     | 55       | 45  | 50   | 45    | 40  | 40   | 45     | 30  | 35   | 30        | 20  | 25   |
| 3     | 75       | 50  | 55   | 45    | 35  | 40   | 40     | 30  | 30   | 30        | 20  | 20   |
| 4     | 55       | 40  | 50   | 40    | 25  | 30   | 35     | 25  | 30   | 45        | 20  | 30   |
| 5     | 45       | 35  | 40   | 35    | 30  | 30   | 35     | 25  | 30   | 60        | 30  | 45   |
| 6     | 70       | 40  | 45   | 45    | 35  | 35   | 40     | 25  | 30   | 55        | 30  | 45   |
| 7     | 45       | 40  | 45   | 40    | 30  | 35   | 35     | 30  | 35   | 55        | 45  | 50   |
| 8     | 45       | 35  | 40   | 40    | 30  | 35   | 45     | 35  | 40   | 60        | 35  | 50   |
| 9     | 60       | 35  | 40   | 40    | 30  | 35   | 50     | 35  | 40   | 55        | 35  | 40   |
| 10    | 50       | 35  | 35   | 45    | 35  | 35   | 55     | 45  | 50   | 65        | 45  | 55   |
| 11    | 85       | 30  | 60   | 40    | 35  | 35   | 70     | 50  | 55   | 65        | 40  | 50   |
| 12    | 85       | 55  | 70   | 45    | 35  | 35   | 90     | 55  | 70   | 50        | 20  | 35   |
| 13    | 55       | 45  | 50   | 45    | 35  | 40   | 140    | 80  | 100  | 45        | 20  | 25   |
| 14    | 55       | 40  | 45   | 40    | 35  | 40   | 210    | 150 | 180  | 65        | 20  | 30   |
| 15    | 110      | 45  | 55   | 45    | 35  | 40   | 220    | 30  | 110  | 35        | 20  | 30   |
| 16    | 70       | 50  | 55   | 55    | 35  | 45   | 40     | 25  | 30   | 55        | 25  | 35   |
| 17    | 65       | 50  | 55   | 50    | 35  | 40   | 35     | 25  | 30   | 45        | 25  | 30   |
| 18    | 60       | 50  | 50   | 50    | 35  | 40   | 35     | 20  | 25   | 35        | 20  | 25   |
| 19    | 50       | 35  | 45   | 40    | 30  | 35   | 50     | 20  | 30   | 30        | 15  | 20   |
| 20    | 40       | 35  | 35   | 40    | 30  | 30   | 40     | 15  | 25   | 45        | 15  | 25   |
| 21    | 50       | 35  | 45   | 55    | 30  | 35   | 50     | 20  | 30   | 30        | 20  | 20   |
| 22    | 45       | 30  | 35   | 85    | 30  | 55   | 50     | 20  | 30   | 25        | 15  | 20   |
| 23    | 60       | 40  | 45   | 60    | 50  | 55   | 40     | 20  | 25   | 30        | 15  | 20   |
| 24    | 55       | 40  | 45   | 60    | 35  | 45   | 140    | 20  | 70   | 30        | 15  | 20   |
| 25    | 55       | 40  | 45   | 50    | 30  | 40   | 85     | 40  | 65   | 35        | 15  | 25   |
| 26    | 50       | 40  | 45   | 40    | 25  | 30   | 65     | 45  | 55   | 35        | 20  | 25   |
| 27    | 45       | 35  | 40   | 35    | 25  | 30   | 55     | 30  | 40   | 30        | 20  | 20   |
| 28    | 45       | 35  | 40   | 55    | 20  | 30   | 40     | 30  | 35   | 30        | 15  | 20   |
| 29    | ---      | --- | ---  | 35    | 20  | 25   | 45     | 25  | 35   | 50        | 20  | 25   |
| 30    | ---      | --- | ---  | 40    | 25  | 30   | 50     | 30  | 35   | 45        | 20  | 25   |
| 31    | ---      | --- | ---  | 40    | 25  | 35   | ---    | --- | ---  | 40        | 25  | 30   |
| MONTH | 110      | 30  | 45   | 85    | 20  | 37   | 220    | 15  | 45   | 65        | 15  | 31   |
|       | JUNE     |     |      | JULY  |     |      | AUGUST |     |      | SEPTEMBER |     |      |
| 1     | 40       | 25  | 30   | 25    | 15  | 20   | 30     | 20  | 25   | 35        | 25  | 25   |
| 2     | 45       | 25  | 30   | 25    | 15  | 20   | 25     | 15  | 20   | 40        | 20  | 25   |
| 3     | 35       | 20  | 30   | 25    | 15  | 20   | ---    | --- | ---  | 50        | 30  | 35   |
| 4     | 35       | 20  | 25   | 25    | 15  | 20   | ---    | --- | ---  | 35        | 25  | 30   |
| 5     | 35       | 20  | 25   | 30    | 20  | 20   | ---    | --- | ---  | 30        | 25  | 25   |
| 6     | 30       | 15  | 25   | 25    | 20  | 20   | ---    | --- | ---  | 30        | 20  | 25   |
| 7     | 35       | 20  | 25   | 25    | 15  | 20   | ---    | --- | ---  | 35        | 20  | 30   |
| 8     | 30       | 20  | 25   | 35    | 20  | 20   | ---    | --- | ---  | 50        | 30  | 40   |
| 9     | 35       | 20  | 25   | 30    | 20  | 20   | ---    | --- | ---  | 50        | 30  | 40   |
| 10    | 30       | 20  | 25   | 35    | 20  | 25   | ---    | --- | ---  | 30        | 20  | 25</ |

## TENNESSEE RIVER BASIN

03592824 TENNESSEE-TOMBIGBEE WATERWAY AT CROSS ROADS, MS--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DAY   | MAX      | MIN  | MEAN | MAX      | MIN  | MEAN | MAX      | MIN  | MEAN | MAX     | MIN  | MEAN |
|-------|----------|------|------|----------|------|------|----------|------|------|---------|------|------|
|       | OCTOBER  |      |      | NOVEMBER |      |      | DECEMBER |      |      | JANUARY |      |      |
| 1     | 8.9      | 7.7  | 8.3  | 7.5      | 6.3  | 6.8  | 9.8      | 9.5  | 9.6  | 9.3     | 8.6  | 8.9  |
| 2     | 8.9      | 8.0  | 8.3  | 7.6      | 6.9  | 7.3  | 9.8      | 9.6  | 9.7  | 9.5     | 9.2  | 9.4  |
| 3     | 9.0      | 8.2  | 8.6  | 7.0      | 6.5  | 6.8  | 9.8      | 9.6  | 9.7  | 9.6     | 9.2  | 9.4  |
| 4     | 8.8      | 8.0  | 8.3  | 7.1      | 6.5  | 6.8  | 9.8      | 9.6  | 9.7  | 10.3    | 9.6  | 9.8  |
| 5     | 8.8      | 8.1  | 8.5  | 7.2      | 6.8  | 7.0  | 9.8      | 9.7  | 9.8  | 10.3    | 9.9  | 10.2 |
| 6     | 8.9      | 8.0  | 8.4  | 8.7      | 6.8  | 7.9  | 10.5     | 9.8  | 9.9  | 10.7    | 10.1 | 10.3 |
| 7     | 8.5      | 8.0  | 8.2  | 8.3      | 7.0  | 7.5  | 10.6     | 10.0 | 10.2 | 10.8    | 10.5 | 10.6 |
| 8     | 8.4      | 7.8  | 8.1  | 8.6      | 7.0  | 7.4  | 10.8     | 10.2 | 10.4 | 10.8    | 10.6 | 10.7 |
| 9     | 8.0      | 7.6  | 7.8  | 8.7      | 8.3  | 8.6  | 10.3     | 9.8  | 10.0 | 10.8    | 10.4 | 10.6 |
| 10    | 7.7      | 6.9  | 7.4  | 8.6      | 7.8  | 8.3  | 10.4     | 9.9  | 10.0 | 10.5    | 10.2 | 10.3 |
| 11    | 7.3      | 6.8  | 7.0  | 8.6      | 8.3  | 8.5  | 10.4     | 10.0 | 10.1 | 10.5    | 10.3 | 10.4 |
| 12    | 7.8      | 7.0  | 7.4  | 9.2      | 8.8  | 8.9  | 10.4     | 9.9  | 10.1 | 10.8    | 10.5 | 10.6 |
| 13    | 7.9      | 7.3  | 7.6  | 9.2      | 8.7  | 8.9  | 10.1     | 9.8  | 9.9  | 11.7    | 10.7 | 11.3 |
| 14    | 7.6      | 6.9  | 7.3  | 9.7      | 9.4  | 9.5  | 9.9      | 9.7  | 9.8  | 11.7    | 11.5 | 11.6 |
| 15    | 7.6      | 7.1  | 7.3  | 9.5      | 9.1  | 9.4  | 10.1     | 10.0 | 10.0 | 11.6    | 10.9 | 11.2 |
| 16    | 7.4      | 6.5  | 6.9  | 9.6      | 9.2  | 9.4  | 10.1     | 9.5  | 9.8  | 11.2    | 11.0 | 11.1 |
| 17    | 7.4      | 6.8  | 7.1  | 9.4      | 9.0  | 9.2  | 9.5      | 9.3  | 9.4  | 11.3    | 11.1 | 11.2 |
| 18    | 7.1      | 6.6  | 7.0  | 9.4      | 9.0  | 9.2  | 9.6      | 9.3  | 9.4  | 11.2    | 11.0 | 11.2 |
| 19    | 7.4      | 6.6  | 7.0  | 10.0     | 9.4  | 9.5  | 9.8      | 9.5  | 9.6  | 11.8    | 11.2 | 11.4 |
| 20    | 7.6      | 6.6  | 7.1  | 10.0     | 9.5  | 9.8  | 9.9      | 9.4  | 9.6  | 12.1    | 11.6 | 11.9 |
| 21    | 7.6      | 6.7  | 7.1  | 10.0     | 9.8  | 9.9  | 9.5      | 9.3  | 9.4  | 11.9    | 11.6 | 11.7 |
| 22    | 7.5      | 6.7  | 7.1  | 10.1     | 9.7  | 9.8  | 9.6      | 9.1  | 9.3  | 12.1    | 11.7 | 11.8 |
| 23    | 7.6      | 7.0  | 7.2  | 10.0     | 9.8  | 9.9  | 9.3      | 9.0  | 9.2  | 11.8    | 11.6 | 11.7 |
| 24    | 7.6      | 7.1  | 7.4  | 10.1     | 9.9  | 10.0 | 9.5      | 8.8  | 9.0  | 11.8    | 11.5 | 11.7 |
| 25    | 7.4      | 7.0  | 7.3  | 10.1     | 9.9  | 10.0 | 9.9      | 9.7  | 9.8  | 11.8    | 11.7 | 11.8 |
| 26    | 7.2      | 6.8  | 7.0  | 9.9      | 9.7  | 9.8  | 10.0     | 9.2  | 9.6  | 11.7    | 11.6 | 11.7 |
| 27    | 7.1      | 6.6  | 7.0  | 9.8      | 9.6  | 9.7  | 9.6      | 9.3  | 9.5  | 11.7    | 11.6 | 11.6 |
| 28    | 7.0      | 6.5  | 6.7  | 9.8      | 9.6  | 9.7  | 9.6      | 9.2  | 9.4  | 11.8    | 11.6 | 11.7 |
| 29    | 6.8      | 6.0  | 6.5  | 9.7      | 9.5  | 9.6  | 9.7      | 9.4  | 9.6  | 11.8    | 11.6 | 11.7 |
| 30    | 8.0      | 6.3  | 6.9  | 9.7      | 9.4  | 9.6  | 9.7      | 9.0  | 9.4  | 11.8    | 11.6 | 11.7 |
| 31    | 8.1      | 6.8  | 7.5  | ---      | ---  | ---  | 9.1      | 8.8  | 8.9  | 11.8    | 11.6 | 11.7 |
| MONTH | 9.0      | 6.0  | 7.5  | 10.1     | 6.3  | 8.8  | 10.8     | 8.8  | 9.7  | 12.1    | 8.6  | 11.0 |
|       | FEBRUARY |      |      | MARCH    |      |      | APRIL    |      |      | MAY     |      |      |
| 1     | 11.8     | 11.5 | 11.7 | 10.4     | 9.6  | 10.0 | 9.0      | 8.7  | 8.9  | 6.0     | 4.7  | 5.3  |
| 2     | 11.7     | 11.4 | 11.6 | 9.9      | 9.4  | 9.6  | 9.2      | 8.6  | 8.9  | 6.6     | 5.7  | 6.2  |
| 3     | 11.9     | 11.6 | 11.7 | 9.8      | 9.4  | 9.6  | 9.0      | 8.7  | 8.9  | 8.1     | 6.9  | 7.3  |
| 4     | 11.8     | 11.5 | 11.7 | 9.9      | 9.4  | 9.7  | 9.0      | 8.6  | 8.9  | 8.3     | 6.7  | 7.3  |
| 5     | 11.8     | 11.7 | 11.7 | 10.3     | 9.5  | 9.8  | 8.8      | 8.5  | 8.7  | 7.1     | 6.4  | 6.7  |
| 6     | 11.9     | 11.6 | 11.7 | 10.7     | 10.2 | 10.4 | 8.7      | 8.4  | 8.6  | 7.2     | 6.5  | 6.8  |
| 7     | 11.9     | 11.6 | 11.8 | 10.7     | 10.3 | 10.5 | 8.8      | 8.2  | 8.7  | 6.6     | 6.3  | 6.4  |
| 8     | 12.3     | 11.8 | 12.0 | 10.5     | 10.1 | 10.3 | 9.1      | 8.4  | 8.7  | 7.5     | 6.1  | 6.7  |
| 9     | 12.3     | 12.1 | 12.2 | 10.3     | 10.1 | 10.2 | 9.2      | 8.6  | 8.9  | 7.4     | 6.9  | 7.2  |
| 10    | 12.5     | 12.2 | 12.3 | 10.2     | 9.9  | 10.0 | 9.0      | 8.6  | 8.9  | 7.2     | 6.5  | 6.8  |
| 11    | 12.3     | 11.8 | 12.0 | 10.0     | 9.5  | 9.8  | 8.7      | 8.3  | 8.5  | 6.9     | 6.5  | 6.7  |
| 12    | 12.1     | 11.7 | 11.8 | 9.8      | 9.4  | 9.6  | 8.6      | 8.1  | 8.4  | 7.0     | 6.4  | 6.7  |
| 13    | 12.1     | 11.9 | 12.0 | 9.7      | 9.4  | 9.5  | 8.2      | 7.8  | 8.0  | 7.0     | 5.8  | 6.4  |
| 14    | 12.0     | 11.8 | 11.9 | 9.6      | 9.2  | 9.4  | 8.4      | 7.8  | 8.1  | 6.5     | 5.4  | 6.1  |
| 15    | 12.0     | 11.5 | 11.7 | 9.5      | 9.1  | 9.3  | 8.8      | 7.5  | 8.2  | 6.7     | 5.5  | 6.2  |
| 16    | 12.0     | 11.6 | 11.8 | 9.4      | 9.1  | 9.2  | 8.7      | 8.0  | 8.3  | 7.2     | 5.5  | 6.5  |
| 17    | 11.9     | 11.5 | 11.7 | 9.3      | 9.0  | 9.2  | 8.5      | 8.0  | 8.2  | 7.5     | 6.8  | 7.0  |
| 18    | 11.9     | 11.7 | 11.8 | 9.2      | 8.7  | 9.0  | 8.5      | 7.9  | 8.1  | 8.2     | 6.8  | 7.2  |
| 19    | 12.5     | 11.6 | 12.0 | 9.4      | 9.0  | 9.2  | 8.4      | 7.8  | 8.1  | 7.8     | 6.1  | 7.1  |
| 20    | 12.8     | 12.2 | 12.5 | 9.5      | 9.0  | 9.2  | 8.4      | 7.2  | 8.1  | 7.3     | 6.0  | 6.5  |
| 21    | 12.8     | 11.9 | 12.3 | 9.3      | 9.1  | 9.1  | 7.9      | 7.2  | 7.5  | 6.9     | 5.9  | 6.4  |
| 22    | 12.5     | 11.7 | 12.1 | 9.1      | 8.9  | 9.0  | 7.7      | 6.9  | 7.3  | 7.0     | 5.2  | 6.1  |
| 23    | 12.1     | 11.2 | 11.7 | 9.2      | 8.8  | 8.9  | 7.8      | 6.8  | 7.4  | 7.4     | 6.0  | 6.5  |
| 24    | 11.5     | 10.8 | 11.2 | 9.1      | 8.8  | 9.0  | 7.5      | 6.8  | 7.1  | 7.6     | 6.4  | 7.0  |
| 25    | 11.5     | 10.9 | 11.2 | 9.4      | 8.8  | 9.1  | 6.9      | 6.3  | 6.5  | 7.6     | 5.9  | 6.8  |
| 26    | 11.2     | 10.6 | 11.0 | 9.4      | 9.1  | 9.3  | 6.5      | 5.5  | 6.2  | 6.8     | 5.8  | 6.3  |
| 27    | 11.4     | 10.6 | 11.0 | 9.2      | 9.0  | 9.1  | 6.4      | 5.2  | 5.8  | 6.8     | 5.9  | 6.4  |
| 28    | 11.2     | 10.6 | 11.0 | 9.2      | 8.9  | 9.1  | 6.0      | 5.0  | 5.5  | 7.4     | 5.5  | 6.1  |
| 29    | ---      | ---  | ---  | 9.1      | 8.8  | 8.9  | 6.0      | 5.0  | 5.4  | 7.1     | 4.6  | 5.8  |
| 30    | ---      | ---  | ---  | 8.9      | 8.6  | 8.8  | 6.1      | 5.1  | 5.6  | 6.0     | 4.9  | 5.5  |
| 31    | ---      | ---  | ---  | 8.9      | 8.7  | 8.8  | ---      | ---  | ---  | 5.8     | 4.0  | 5.2  |
| MONTH | 12.8     | 10.6 | 11.8 | 10.7     | 8.6  | 9.4  | 9.2      | 5.0  | 7.8  | 8.3     | 4.0  | 6.5  |

## TENNESSEE RIVER BASIN

03592824 TENNESSEE-TOMBIGBEE WATERWAY AT CROSS ROADS, MS--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DAY   | MAX  | MIN | MEAN | MAX  | MIN | MEAN | MAX    | MIN | MEAN | MAX       | MIN | MEAN |
|-------|------|-----|------|------|-----|------|--------|-----|------|-----------|-----|------|
|       | JUNE |     |      | JULY |     |      | AUGUST |     |      | SEPTEMBER |     |      |
| 1     | 4.9  | 3.0 | 4.1  | 6.2  | 4.2 | 5.0  | 6.4    | 4.9 | 5.4  | 6.6       | 5.6 | 6.2  |
| 2     | 5.1  | 3.3 | 4.0  | 4.9  | 3.6 | 4.1  | 6.5    | 5.6 | 6.2  | 6.7       | 5.8 | 6.0  |
| 3     | 5.8  | 2.9 | 4.1  | 4.0  | 3.1 | 3.6  | 7.0    | 5.7 | 6.0  | 6.3       | 5.5 | 5.8  |
| 4     | 6.6  | 3.9 | 4.7  | 6.1  | 3.4 | 4.9  | 5.7    | 4.7 | 5.3  | 6.2       | 5.8 | 5.9  |
| 5     | 7.2  | 5.3 | 6.2  | 6.6  | 4.9 | 5.8  | 5.7    | 4.7 | 5.1  | 6.1       | 5.7 | 6.0  |
| 6     | 7.4  | 5.5 | 6.3  | 6.9  | 5.5 | 6.0  | 5.5    | 4.6 | 5.1  | 6.0       | 5.3 | 5.8  |
| 7     | 6.1  | 5.0 | 5.6  | 7.0  | 6.2 | 6.4  | 5.2    | 4.5 | 4.9  | 6.3       | 5.4 | 5.8  |
| 8     | 6.2  | 4.6 | 5.4  | 6.7  | 4.6 | 5.8  | 5.2    | 4.2 | 4.7  | 6.5       | 5.2 | 5.6  |
| 9     | 6.1  | 4.1 | 5.0  | 5.5  | 4.5 | 5.1  | 5.3    | 4.3 | 4.8  | 6.8       | 5.2 | 5.7  |
| 10    | 6.5  | 4.6 | 5.4  | 4.8  | 3.1 | 4.0  | 5.2    | 4.2 | 4.7  | 7.2       | 5.4 | 6.0  |
| 11    | 6.7  | 5.5 | 6.1  | 4.6  | 3.0 | 3.9  | 4.7    | 3.9 | 4.4  | 7.1       | 5.4 | 6.1  |
| 12    | 7.4  | 5.2 | 6.1  | 4.7  | 2.6 | 3.3  | 4.9    | 3.7 | 4.1  | 7.4       | 6.6 | 6.9  |
| 13    | 7.1  | 6.1 | 6.5  | 4.8  | 2.5 | 3.7  | 4.2    | 2.4 | 3.6  | 7.6       | 6.7 | 7.1  |
| 14    | 6.8  | 5.6 | 6.3  | 4.7  | 3.2 | 4.1  | 4.4    | 2.6 | 3.8  | 7.4       | 6.3 | 6.9  |
| 15    | 6.3  | 5.7 | 6.0  | 5.8  | 2.8 | 4.3  | 3.7    | 2.3 | 3.3  | 6.4       | 5.6 | 6.1  |
| 16    | 6.9  | 5.8 | 6.1  | 5.7  | 4.7 | 5.1  | 4.8    | 3.4 | 3.7  | 6.9       | 6.0 | 6.2  |
| 17    | 6.8  | 5.1 | 5.8  | 6.6  | 5.3 | 5.8  | 4.9    | 3.2 | 3.9  | 6.8       | 5.9 | 6.4  |
| 18    | 6.1  | 5.5 | 5.8  | 6.4  | 4.8 | 5.5  | 5.2    | 3.1 | 3.9  | 6.9       | 5.9 | 6.3  |
| 19    | 6.5  | 5.1 | 5.7  | 5.7  | 4.5 | 5.1  | 5.4    | 3.3 | 4.1  | 7.0       | 6.0 | 6.3  |
| 20    | 7.0  | 5.4 | 6.2  | 5.5  | 4.5 | 4.9  | 6.1    | 4.6 | 5.5  | 6.6       | 5.7 | 6.2  |
| 21    | 7.2  | 6.0 | 6.8  | ---  | --- | ---  | 6.2    | 4.6 | 5.2  | 6.4       | 5.6 | 6.0  |
| 22    | 7.3  | 6.5 | 6.8  | ---  | --- | ---  | 6.9    | 5.1 | 6.0  | 5.9       | 5.4 | 5.7  |
| 23    | 7.3  | 6.7 | 6.9  | ---  | --- | ---  | 6.3    | 5.0 | 5.6  | 6.8       | 5.5 | 6.1  |
| 24    | 6.9  | 6.2 | 6.6  | 5.6  | 4.7 | 5.0  | 5.2    | 4.9 | 5.1  | 7.4       | 6.3 | 6.8  |
| 25    | 7.3  | 5.2 | 6.1  | 5.5  | 4.9 | 5.3  | 5.9    | 4.9 | 5.5  | 7.3       | 6.5 | 6.9  |
| 26    | 7.7  | 6.1 | 6.9  | 5.3  | 4.7 | 5.1  | 6.3    | 5.2 | 5.8  | 7.5       | 6.6 | 6.9  |
| 27    | 7.1  | 4.8 | 5.7  | 5.2  | 4.8 | 5.0  | 7.8    | 6.7 | 7.2  | 7.6       | 6.8 | 7.2  |
| 28    | 6.9  | 4.5 | 5.8  | 5.2  | 4.7 | 4.9  | 8.0    | 6.9 | 7.3  | 7.5       | 6.9 | 7.3  |
| 29    | 5.8  | 5.1 | 5.5  | 4.8  | 4.4 | 4.6  | 7.8    | 7.0 | 7.4  | 7.3       | 6.3 | 6.8  |
| 30    | 6.9  | 5.1 | 5.8  | 5.1  | 3.9 | 4.6  | 7.5    | 5.5 | 6.8  | 6.6       | 6.1 | 6.4  |
| 31    | ---  | --- | ---  | 5.4  | 3.5 | 4.3  | 6.9    | 5.5 | 6.3  | ---       | --- | ---  |
| MONTH | 7.7  | 2.9 | 5.8  | 7.0  | 2.5 | 4.8  | 8.0    | 2.3 | 5.2  | 7.6       | 5.2 | 6.3  |
| YEAR  | 12.8 | 2.3 | 7.9  |      |     |      |        |     |      |           |     |      |

SEDIMENT, SUSPENDED CONCENTRATION (MG/L), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY         | OCT  | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1           | 7    | 10  | 9   | 9   | 12  | 11  | 11  | 6   | 6   | 4   | 5   | 8   |
| 2           | 8    | 12  | 8   | 10  | 12  | 11  | 11  | 6   | 7   | 8   | 6   | 6   |
| 3           | 8    | 14  | 9   | 15  | 10  | 8   | 11  | 8   | 12  | 4   | 6   | 4   |
| 4           | 6    | 18  | 8   | 14  | 12  | 8   | 10  | 26  | 8   | 2   | 50  | 4   |
| 5           | 8    | 18  | 9   | 11  | 11  | 8   | 10  | 10  | 4   | 4   | 12  | 6   |
| 6           | 5    | 15  | 15  | 12  | 15  | 8   | 9   | 13  | 7   | 2   | 7   | 10  |
| 7           | 5    | 18  | 15  | 8   | 18  | 9   | 12  | 18  | --- | 4   | 39  | 9   |
| 8           | 6    | 18  | 20  | 9   | 16  | 14  | 8   | 12  | 8   | 4   | 6   | 9   |
| 9           | 10   | 14  | 14  | 10  | 16  | 10  | 6   | 12  | 8   | 8   | 10  | 10  |
| 10          | 6    | 12  | 12  | 9   | 16  | 10  | 12  | 14  | --- | 4   | 14  | 10  |
| 11          | 6    | 11  | 12  | 8   | 11  | 13  | 8   | 12  | --- | 2   | 8   | 8   |
| 12          | 6    | 18  | 12  | 8   | 14  | 13  | 8   | 12  | --- | 3   | 51  | 8   |
| 13          | 6    | 22  | 14  | 10  | 14  | 10  | 8   | 11  | --- | 2   | 14  | 6   |
| 14          | 5    | 22  | 12  | 8   | 15  | 14  | 10  | 9   | --- | 2   | 18  | 6   |
| 15          | 6    | 20  | 11  | 8   | 14  | 10  | 8   | 10  | --- | 8   | 4   | 5   |
| 16          | 7    | 10  | 11  | 10  | 14  | 12  | 2   | 10  | --- | 8   | 13  | 5   |
| 17          | 7    | 14  | 13  | 10  | 14  | 11  | 4   | 10  | --- | 8   | 19  | 4   |
| 18          | 11   | 21  | 10  | 10  | 16  | 13  | 4   | 9   | 5   | 8   | 16  | 4   |
| 19          | 10   | 25  | 10  | 8   | 12  | 18  | 3   | 8   | --- | 8   | 13  | 4   |
| 20          | 8    | 24  | 13  | 8   | 11  | 16  | 3   | 6   | --- | 6   | 2   | 4   |
| 21          | 9    | 23  | 12  | 19  | 14  | 14  | 2   | 7   | --- | 5   | 1   | 4   |
| 22          | 11   | 21  | 14  | 12  | 11  | 13  | 4   | 10  | --- | 6   | 8   | 4   |
| 23          | 10   | 19  | 14  | 15  | 9   | 18  | 4   | 10  | --- | 8   | 8   | 10  |
| 24          | 13   | 18  | 14  | 14  | 9   | 17  | 5   | 8   | 4   | 3   | 5   | 8   |
| 25          | 13   | 16  | 14  | 13  | 10  | 16  | 8   | 8   | 1   | 1   | 3   | 6   |
| 26          | 12   | 18  | 13  | 12  | 10  | 14  | 9   | 6   | 1   | 7   | 10  | 4   |
| 27          | 12   | 16  | 15  | 12  | 10  | 11  | 8   | 10  | 1   | 4   | 6   | 4   |
| 28          | 15   | 12  | 12  | 12  | 9   | 12  | 9   | 6   | 2   | 2   | 6   | 5   |
| 29          | 11   | 14  | 12  | 12  | --- | 12  | 6   | 8   | 2   | 2   | 3   | 5   |
| 30          | 10   | 9   | 10  | 12  | --- | 16  | 7   | 6   | 2   | 4   | 6   | 5   |
| 31          | 11   | --- | 14  | 12  | --- | 11  | --- | 8   | --- | 6   | 4   | --- |
| MEAN        | 9    | 17  | 12  | 11  | 13  | 12  | 7   | 10  | --- | 5   | 12  | 6   |
| WTR YR 1985 | MEAN | 10  | MAX | 51  | MIN | 1   |     |     |     |     |     |     |

## 07268000 LITTLE TALLAHATCHIE RIVER AT ETTA, MS

LOCATION.--Lat 34°29'00", long 89°13'30", in SE¼SW¼ sec.8, T.7 S., R.1 E., Chickasaw Meridian, Union County, Hydrologic Unit 08030201, on right bank at downstream side of bridge on State Highway 30, 0.8 mi northeast of Etta, 3.8 mi upstream from Puskus Creek, 5.0 mi downstream from Locks Creek, 12.3 mi west of New Albany, and 55.0 mi upstream from head of Panola-Quitman Floodway.

DRAINAGE AREA.--526 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1938 to current year. November 1936 to May 1937 (gage heights and discharge measurements only) in reports of U. S. Army Corps of Engineers, Vicksburg district. Prior to October 1971 published as Tallahatchie River at Etta.

REVISED RECORDS.--WSP 897: Drainage area. WSP 1211: 1948, 1949(M).

GAGE.--Water-stage recorder. Datum of gage is 273.48 ft above National Geodetic Vertical Datum of 1929 (levels by U. S. Army Corps of Engineers). Nov. 23, 1936 to May 31, 1937, nonrecording gage at same site at datum 5.33 ft higher. Sept. 24, 1938 to Mar. 16, 1939, nonrecording gage; Mar. 17, 1939 to Aug. 25, 1952, water-stage recorder; and Aug. 26, 1952 to June 22, 1953, nonrecording gage; all at same site. Sept. 24, 1938 to Sept. 30, 1952, at datum 5.00 ft higher.

REMARKS.--Estimated daily discharges: Mar. 12-19, July 23 to Aug. 27, Sept. 10-30. Records fair except for estimated daily discharges, which are poor. U. S. Army Corps of Engineers satellite telemeter at station.

AVERAGE DISCHARGE.--47 years, 863 ft<sup>3</sup>/s, 22.28 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 85,200 ft<sup>3</sup>/s, May 19, 1983, maximum gage height; 29.32 ft, Mar. 22, 1955; minimum, 4.1 ft<sup>3</sup>/s, Oct. 3, 16, 1938.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 13,000 ft<sup>3</sup>/s and maximum(\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Nov. 19 | 0615 | 14,300                            | 23.78               | Feb. 24 | 1645 | *17,100                           | *24.18              |
| Feb. 11 | 1900 | 13,100                            | 23.59               |         |      |                                   |                     |

Minimum discharge, 27 ft<sup>3</sup>/s, Oct. 1, gage height, 9.02 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY         | OCT   | NOV    | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN  | JUL  | AUG  | SEP   |
|-------------|-------|--------|-------|-------|-------|-------|-------|-------|------|------|------|-------|
| 1           | 27    | 140    | 432   | 960   | 2390  | 709   | 985   | 5670  | 148  | 130  | 100  | 65    |
| 2           | 28    | 1200   | 608   | 524   | 806   | 662   | 490   | 2170  | 132  | 92   | 90   | 54    |
| 3           | 28    | 315    | 696   | 370   | 715   | 596   | 386   | 775   | 110  | 64   | 86   | 51    |
| 4           | 28    | 206    | 387   | 573   | 637   | 580   | 333   | 501   | 101  | 69   | 82   | 105   |
| 5           | 28    | 166    | 355   | 525   | 1860  | 615   | 411   | 406   | 93   | 73   | 78   | 119   |
| 6           | 32    | 130    | 664   | 444   | 3560  | 493   | 725   | 344   | 85   | 53   | 630  | 148   |
| 7           | 510   | 114    | 384   | 495   | 2370  | 453   | 348   | 2300  | 96   | 46   | 280  | 71    |
| 8           | 1680  | 107    | 334   | 474   | 1250  | 432   | 270   | 6090  | 146  | 43   | 140  | 54    |
| 9           | 326   | 104    | 305   | 389   | 1020  | 406   | 230   | 2590  | 113  | 41   | 94   | 127   |
| 10          | 123   | 1130   | 282   | 562   | 2300  | 378   | 208   | 843   | 90   | 38   | 76   | 250   |
| 11          | 211   | 497    | 246   | 617   | 9980  | 362   | 197   | 640   | 82   | 36   | 68   | 70    |
| 12          | 121   | 212    | 232   | 406   | 6020  | 340   | 203   | 510   | 104  | 32   | 250  | 46    |
| 13          | 70    | 160    | 230   | 337   | 1930  | 320   | 232   | 421   | 85   | 32   | 140  | 160   |
| 14          | 59    | 143    | 213   | 348   | 1150  | 300   | 281   | 514   | 68   | 29   | 100  | 70    |
| 15          | 53    | 252    | 193   | 307   | 890   | 280   | 1210  | 365   | 63   | 29   | 200  | 44    |
| 16          | 53    | 635    | 187   | 655   | 752   | 270   | 873   | 293   | 59   | 802  | 600  | 40    |
| 17          | 359   | 243    | 186   | 4630  | 686   | 250   | 384   | 246   | 60   | 125  | 2100 | 36    |
| 18          | 141   | 2440   | 186   | 1270  | 623   | 240   | 278   | 244   | 722  | 53   | 600  | 34    |
| 19          | 267   | 9830   | 201   | 755   | 636   | 230   | 216   | 218   | 282  | 42   | 200  | 32    |
| 20          | 237   | 2200   | 445   | 586   | 726   | 217   | 182   | 199   | 116  | 39   | 140  | 30    |
| 21          | 946   | 679    | 334   | 482   | 627   | 264   | 155   | 192   | 81   | 36   | 120  | 29    |
| 22          | 3280  | 484    | 517   | 610   | 543   | 480   | 132   | 822   | 71   | 30   | 110  | 28    |
| 23          | 5390  | 403    | 339   | 585   | 609   | 348   | 159   | 475   | 94   | 29   | 100  | 28    |
| 24          | 1560  | 358    | 285   | 538   | 13700 | 288   | 7480  | 298   | 73   | 28   | 90   | 60    |
| 25          | 465   | 324    | 536   | 477   | 5250  | 236   | 2110  | 230   | 73   | 70   | 1700 | 45    |
| 26          | 299   | 289    | 356   | 361   | 1690  | 212   | 678   | 196   | 67   | 200  | 300  | 35    |
| 27          | 225   | 995    | 289   | 393   | 1020  | 269   | 1270  | 174   | 261  | 1800 | 180  | 32    |
| 28          | 184   | 2370   | 263   | 1380  | 792   | 414   | 2350  | 159   | 275  | 500  | 125  | 30    |
| 29          | 157   | 622    | 249   | 806   | ---   | 313   | 680   | 312   | 96   | 240  | 106  | 29    |
| 30          | 139   | 479    | 234   | 727   | ---   | 255   | 435   | 199   | 99   | 160  | 86   | 200   |
| 31          | 124   | ---    | 252   | 1500  | ---   | 3820  | ---   | 159   | ---  | 120  | 73   | ---   |
| TOTAL       | 17150 | 27227  | 10420 | 23086 | 64532 | 15032 | 23891 | 28555 | 3945 | 5081 | 9044 | 2122  |
| MEAN        | 553   | 908    | 336   | 745   | 2305  | 485   | 796   | 921   | 132  | 164  | 292  | 70.7  |
| MAX         | 5390  | 9830   | 696   | 4630  | 13700 | 3820  | 7480  | 6090  | 722  | 1800 | 2100 | 250   |
| MIN         | 27    | 104    | 186   | 307   | 543   | 212   | 132   | 159   | 59   | 28   | 68   | 28    |
| CFSM        | 1.05  | 1.73   | .64   | 1.42  | 4.38  | .92   | 1.51  | 1.75  | .25  | .31  | .56  | .13   |
| IN.         | 1.21  | 1.93   | .74   | 1.63  | 4.56  | 1.06  | 1.69  | 2.02  | .28  | .36  | .64  | .15   |
| CAL YR 1984 | TOTAL | 292160 | MEAN  | 798   | MAX   | 24200 | MIN   | 26    | CFSM | 1.52 | IN   | 20.66 |
| WTR YR 1985 | TOTAL | 230085 | MEAN  | 630   | MAX   | 13700 | MIN   | 27    | CFSM | 1.20 | IN   | 16.27 |



## YAZOO RIVER BASIN

07274000 YOCONA RIVER NEAR OXFORD, MS

LOCATION.--Lat 34°16'23", long 89°31'11", in SE¼NW¼ 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 in reports of Geological Survey. May 1946 to September 1951 in reports of U. S. Army Corps of Engineers, Vicksburg district.

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

GAGE.--Water-stage recorder. Datum of gage is 267.20 ft above National Geodetic Vertical Datum of 1929. Prior to Jan. 1, 1972, at datum 5.00 ft higher.

REMARKS.--Estimated daily discharges: Oct. 1-10, Jan. 12-29, July 2 to Aug. 28. Records good except for estimated daily discharges, which are poor. U. S. Army Corps of Engineers satellite telemeter at station.

AVERAGE DISCHARGE.--39 years, 398 ft<sup>3</sup>/s, 20.63 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44,100 ft<sup>3</sup>/s, Mar. 21, 1955, gage height, 28.72 ft, present datum, from rating curve extended above 22,000 ft<sup>3</sup>/s; minimum, 4.4 ft<sup>3</sup>/s, Sept. 14, 1954.

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) |
|---------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Feb. 24 | 0600 | *4,480                            | *18.74              |      |      |                                   |                     |

Minimum discharge, 19 ft<sup>3</sup>/s, Oct. 3-6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY         | OCT   | NOV    | DEC      | JAN       | FEB    | MAR       | APR      | MAY   | JUN  | JUL  | AUG  | SEP  |
|-------------|-------|--------|----------|-----------|--------|-----------|----------|-------|------|------|------|------|
| 1           | 20    | 119    | 239      | 449       | 672    | 504       | 790      | 977   | 72   | 45   | 58   | 74   |
| 2           | 20    | 688    | 210      | 336       | 609    | 408       | 729      | 1200  | 66   | 42   | 43   | 64   |
| 3           | 19    | 445    | 189      | 216       | 542    | 349       | 412      | 981   | 60   | 39   | 35   | 59   |
| 4           | 19    | 265    | 165      | 198       | 442    | 325       | 266      | 642   | 54   | 70   | 30   | 57   |
| 5           | 19    | 163    | 159      | 186       | 978    | 313       | 271      | 384   | 51   | 55   | 27   | 58   |
| 6           | 19    | 121    | 209      | 170       | 1340   | 264       | 384      | 276   | 48   | 45   | 450  | 50   |
| 7           | 1750  | 99     | 197      | 166       | 1170   | 232       | 317      | 249   | 66   | 39   | 500  | 49   |
| 8           | 650   | 88     | 178      | 166       | 827    | 221       | 204      | 2760  | 82   | 36   | 355  | 55   |
| 9           | 440   | 75     | 157      | 152       | 788    | 207       | 164      | 2610  | 75   | 33   | 230  | 46   |
| 10          | 250   | 248    | 143      | 183       | 897    | 193       | 143      | 1710  | 57   | 31   | 135  | 40   |
| 11          | 156   | 100    | 122      | 210       | 2100   | 182       | 130      | 1010  | 47   | 29   | 87   | 35   |
| 12          | 105   | 70     | 118      | 170       | 1230   | 196       | 128      | 666   | 47   | 28   | 61   | 33   |
| 13          | 60    | 58     | 118      | 140       | 1230   | 176       | 121      | 413   | 39   | 26   | 47   | 32   |
| 14          | 43    | 51     | 114      | 125       | 1050   | 166       | 147      | 314   | 34   | 25   | 38   | 30   |
| 15          | 36    | 118    | 110      | 115       | 765    | 149       | 368      | 243   | 33   | 24   | 32   | 29   |
| 16          | 33    | 144    | 107      | 107       | 557    | 139       | 350      | 196   | 31   | 520  | 700  | 29   |
| 17          | 125   | 92     | 106      | 1500      | 417    | 132       | 241      | 162   | 30   | 350  | 490  | 28   |
| 18          | 109   | 1270   | 106      | 940       | 354    | 120       | 180      | 143   | 489  | 225  | 320  | 27   |
| 19          | 111   | 2090   | 107      | 640       | 326    | 115       | 143      | 128   | 351  | 145  | 195  | 27   |
| 20          | 154   | 1060   | 137      | 430       | 345    | 111       | 116      | 114   | 150  | 94   | 120  | 26   |
| 21          | 348   | 776    | 131      | 300       | 362    | 152       | 96       | 111   | 77   | 64   | 85   | 25   |
| 22          | 1100  | 425    | 155      | 185       | 318    | 201       | 84       | 245   | 57   | 49   | 65   | 24   |
| 23          | 1690  | 246    | 127      | 155       | 653    | 182       | 197      | 214   | 55   | 39   | 52   | 59   |
| 24          | 945   | 187    | 112      | 140       | 3780   | 157       | 2460     | 158   | 56   | 33   | 44   | 44   |
| 25          | 809   | 153    | 104      | 128       | 2400   | 131       | 1680     | 122   | 43   | 29   | 640  | 31   |
| 26          | 508   | 140    | 99       | 120       | 1520   | 113       | 1320     | 104   | 162  | 25   | 410  | 26   |
| 27          | 256   | 487    | 98       | 115       | 979    | 174       | 1550     | 96    | 235  | 480  | 270  | 24   |
| 28          | 181   | 795    | 94       | 700       | 704    | 256       | 1210     | 87    | 105  | 310  | 170  | 24   |
| 29          | 144   | 502    | 92       | 510       | ---    | 230       | 830      | 104   | 87   | 210  | 122  | 24   |
| 30          | 122   | 333    | 91       | 410       | ---    | 186       | 567      | 89    | 52   | 135  | 102  | 488  |
| 31          | 105   | ---    | 94       | 621       | ---    | 1140      | ---      | 76    | ---  | 80   | 86   | ---  |
| TOTAL       | 10346 | 11408  | 4188     | 9983      | 27355  | 7424      | 15598    | 16584 | 2811 | 3355 | 5999 | 1617 |
| MEAN        | 334   | 380    | 135      | 322       | 977    | 239       | 520      | 535   | 93.7 | 108  | 194  | 53.9 |
| MAX         | 1750  | 2090   | 239      | 1500      | 3780   | 1140      | 2460     | 2760  | 489  | 520  | 700  | 488  |
| MIN         | 19    | 51     | 91       | 107       | 318    | 111       | 84       | 76    | 30   | 24   | 27   | 24   |
| CFSM        | 1.28  | 1.45   | .52      | 1.23      | 3.73   | .91       | 1.99     | 2.04  | .36  | .41  | .74  | .21  |
| IN.         | 1.47  | 1.62   | .59      | 1.42      | 3.88   | 1.05      | 2.21     | 2.35  | .40  | .48  | .85  | .23  |
| CAL YR 1984 | TOTAL | 143405 | MEAN 392 | MAX 11400 | MIN 19 | CFSM 1.50 | IN 20.36 |       |      |      |      |      |
| WTR YR 1985 | TOTAL | 116668 | MEAN 320 | MAX 3780  | MIN 19 | CFSM 1.22 | IN 16.57 |       |      |      |      |      |

## 07280340 SOUTH FORK TILLATOBA CREEK NEAR CHARLESTON, MS

LOCATION.--Lat 33°58'42", long 89°58'45", in NE1 sec.4, T.24 N., R.3 E., Choctaw Meridian, Tallahatchie County, Hydrologic Unit 08030202, on left bank, 80 ft downstream from left end of bridge on county road, 1.9 mi south of intersection of county road and Mississippi Highway 32, 4.8 mi west of Tillatoba and 4.8 mi east-southeast of Charleston.

DRAINAGE AREA.--53.9 mi<sup>2</sup>.

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

GAGE.--Water-stage recorder. Datum of gage is 189.37 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Feb. 26 to Mar. 27. Records fair.

AVERAGE DISCHARGE.--10 years, 90.4 ft<sup>3</sup>/s, 22.77 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,900 ft<sup>3</sup>/s, Dec. 26, 1982, gage height, 23.96 ft; minimum daily, 1.4 ft<sup>3</sup>/s, Sept. 25, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 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) |
|---------|------|--------------------------------|------------------|---------|------|--------------------------------|------------------|
| Oct. 16 | 2215 | 2,340                          | 10.67            | Feb. 24 | 0030 | 2,340                          | 10.68            |
| Oct. 22 | 0930 | 1,240                          | 7.84             | Aug. 6  | 1345 | *3,470                         | *13.50           |
| Nov. 18 | 1915 | 2,490                          | 11.03            | Aug. 16 | 1415 | 2,200                          | 10.34            |
| Feb. 11 | 0745 | 1,550                          | 8.68             |         |      |                                |                  |

Minimum daily discharge, 3.6 ft<sup>3</sup>/s, Oct. 1, 2, and 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY         | OCT    | NOV     | DEC       | JAN      | FEB     | MAR       | APR      | MAY  | JUN  | JUL   | AUG    | SEP   |
|-------------|--------|---------|-----------|----------|---------|-----------|----------|------|------|-------|--------|-------|
| 1           | 3.6    | 119     | 14        | 19       | 172     | 28        | 84       | 167  | 25   | 18    | 9.0    | 6.1   |
| 2           | 3.6    | 330     | 23        | 16       | 72      | 34        | 47       | 92   | 24   | 17    | 6.5    | 6.3   |
| 3           | 3.7    | 34      | 24        | 15       | 56      | 27        | 36       | 60   | 23   | 15    | 6.4    | 8.0   |
| 4           | 3.6    | 17      | 12        | 19       | 51      | 28        | 29       | 44   | 22   | 15    | 6.9    | 7.8   |
| 5           | 3.8    | 13      | 34        | 19       | 382     | 35        | 27       | 38   | 22   | 14    | 8.7    | 7.1   |
| 6           | 11     | 8.7     | 63        | 22       | 326     | 23        | 27       | 33   | 22   | 14    | 1430   | 7.7   |
| 7           | 485    | 8.7     | 21        | 21       | 210     | 22        | 22       | 32   | 38   | 13    | 218    | 7.9   |
| 8           | 36     | 8.8     | 17        | 19       | 138     | 21        | 19       | 366  | 32   | 15    | 52     | 12    |
| 9           | 15     | 8.6     | 15        | 17       | 158     | 20        | 17       | 95   | 22   | 13    | 14     | 19    |
| 10          | 28     | 11      | 14        | 20       | 264     | 19        | 19       | 66   | 23   | 12    | 9.0    | 8.9   |
| 11          | 23     | 9.8     | 12        | 20       | 881     | 21        | 22       | 47   | 33   | 11    | 24     | 7.5   |
| 12          | 11     | 8.6     | 12        | 16       | 244     | 17        | 24       | 41   | 43   | 10    | 35     | 6.8   |
| 13          | 8.5    | 11      | 12        | 16       | 145     | 16        | 25       | 37   | 35   | 9.6   | 9.3    | 6.5   |
| 14          | 7.7    | 11      | 11        | 17       | 102     | 14        | 28       | 39   | 34   | 9.0   | 7.2    | 5.9   |
| 15          | 7.5    | 45      | 9.7       | 17       | 65      | 14        | 34       | 32   | 33   | 8.7   | 7.4    | 6.0   |
| 16          | 253    | 53      | 9.7       | 240      | 49      | 12        | 30       | 28   | 32   | 8.8   | 905    | 5.7   |
| 17          | 904    | 14      | 9.8       | 368      | 40      | 11        | 24       | 30   | 73   | 9.0   | 227    | 5.2   |
| 18          | 127    | 920     | 11        | 89       | 33      | 10        | 23       | 26   | 314  | 16    | 37     | 5.6   |
| 19          | 103    | 528     | 11        | 50       | 31      | 10        | 22       | 25   | 55   | 7.7   | 14     | 5.1   |
| 20          | 46     | 93      | 11        | 33       | 31      | 13        | 21       | 24   | 37   | 6.9   | 8.7    | 5.0   |
| 21          | 472    | 40      | 11        | 32       | 27      | 21        | 20       | 24   | 31   | 6.4   | 7.5    | 5.0   |
| 22          | 548    | 18      | 11        | 34       | 24      | 35        | 25       | 25   | 29   | 87    | 5.8    | 5.0   |
| 23          | 298    | 11      | 9.5       | 23       | 314     | 27        | 153      | 26   | 28   | 25    | 13     | 5.3   |
| 24          | 56     | 8.2     | 11        | 24       | 1070    | 19        | 374      | 24   | 25   | 11    | 42     | 4.9   |
| 25          | 27     | 5.9     | 27        | 23       | 215     | 14        | 71       | 23   | 24   | 8.2   | 43     | 4.8   |
| 26          | 18     | 4.8     | 16        | 18       | 146     | 14        | 86       | 23   | 23   | 31    | 9.9    | 4.4   |
| 27          | 13     | 285     | 14        | 34       | 68      | 48        | 162      | 22   | 23   | 72    | 8.6    | 4.4   |
| 28          | 10     | 69      | 14        | 119      | 24      | 90        | 100      | 137  | 93   | 13    | 7.1    | 3.9   |
| 29          | 8.0    | 25      | 13        | 49       | ---     | 39        | 51       | 152  | 23   | 9.2   | 8.0    | 3.9   |
| 30          | 5.7    | 19      | 13        | 76       | ---     | 35        | 41       | 58   | 19   | 7.4   | 6.4    | 89    |
| 31          | 6.1    | ---     | 14        | 307      | ---     | 346       | ---      | 35   | ---  | 6.6   | 6.1    | ---   |
| TOTAL       | 3545.8 | 2738.1  | 499.7     | 1792     | 5338    | 1083      | 1663     | 1871 | 1260 | 519.5 | 3192.5 | 280.7 |
| MEAN        | 114    | 91.3    | 16.1      | 57.8     | 191     | 34.9      | 55.4     | 60.4 | 42.0 | 16.8  | 103    | 9.36  |
| MAX         | 904    | 920     | 63        | 368      | 1070    | 346       | 374      | 366  | 314  | 87    | 1430   | 89    |
| MIN         | 3.6    | 4.8     | 9.5       | 15       | 24      | 10        | 17       | 22   | 19   | 6.4   | 5.8    | 3.9   |
| CFSM        | 2.12   | 1.69    | .30       | 1.07     | 3.54    | .65       | 1.03     | 1.12 | .78  | .31   | 1.91   | .17   |
| IN.         | 2.45   | 1.89    | .34       | 1.24     | 3.68    | .75       | 1.15     | 1.29 | .87  | .36   | 2.20   | .19   |
| CAL YR 1984 | TOTAL  | 30491.5 | MEAN 83.3 | MAX 2670 | MIN 3.4 | CFSM 1.55 | IN 21.04 |      |      |       |        |       |
| WTR YR 1985 | TOTAL  | 23783.3 | MEAN 65.2 | MAX 1430 | MIN 3.6 | CFSM 1.21 | IN 16.41 |      |      |       |        |       |

## YAZOO RIVER BASIN

## 07282000 YALOBUSHA RIVER AT CALHOUN CITY, MS

LOCATION.--Lat 33°50'20", long 89°18'55", in SE¼ 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).

GAGE.--Water-stage recorder. Datum of gage is 226.06 ft above National Geodetic Vertical Datum of 1929 (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. 2-5. Records fair. 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.

AVERAGE DISCHARGE.--35 years, 420 ft<sup>3</sup>/s, 18.70 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 70,100 ft<sup>3</sup>/s, Dec. 26, 1982, gage height, 25.75 ft; no flow at times.

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) |
|---------|------|-----------------------------------|---------------------|------|------|-----------------------------------|---------------------|
| Feb. 11 | 1000 | *10,700                           | *19.55              |      |      |                                   |                     |

Minimum daily discharge, 1.4 ft<sup>3</sup>/s, Sept. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT    | NOV  | DEC  | JAN  | FEB   | MAR  | APR  | MAY    | JUN   | JUL   | AUG    | SEP   |
|-------|--------|------|------|------|-------|------|------|--------|-------|-------|--------|-------|
| 1     | 1.6    | 12   | 85   | 23   | 1090  | 291  | 573  | 515    | 6.1   | 2.8   | 6.2    | 2.1   |
| 2     | 1.5    | 753  | 462  | 21   | 230   | 270  | 212  | 910    | 4.7   | 2.6   | 4.7    | 1.8   |
| 3     | 1.5    | 304  | 745  | 18   | 79    | 222  | 105  | 382    | 3.8   | 2.6   | 3.9    | 1.8   |
| 4     | 1.5    | 80   | 260  | 57   | 39    | 185  | 77   | 132    | 3.3   | 2.5   | 3.8    | 4.6   |
| 5     | 1.4    | 46   | 109  | 75   | 850   | 147  | 63   | 76     | 3.0   | 2.3   | 16     | 4.1   |
| 6     | 1.5    | 31   | 159  | 73   | 1470  | 102  | 76   | 58     | 2.7   | 2.2   | 545    | 2.6   |
| 7     | 19     | 22   | 97   | 70   | 1140  | 83   | 59   | 46     | 2.5   | 2.0   | 276    | 2.0   |
| 8     | 101    | 17   | 67   | 69   | 759   | 78   | 46   | 380    | 3.3   | 2.0   | 49     | 1.8   |
| 9     | 83     | 15   | 55   | 57   | 682   | 71   | 38   | 507    | 3.5   | 1.8   | 19     | 1.6   |
| 10    | 35     | 92   | 45   | 56   | 1260  | 65   | 35   | 182    | 2.9   | 1.7   | 9.0    | 1.3   |
| 11    | 28     | 161  | 36   | 73   | 3430  | 67   | 31   | 90     | 2.5   | 1.5   | 6.2    | 1.4   |
| 12    | 15     | 61   | 35   | 49   | 1620  | 64   | 29   | 64     | 2.2   | 1.6   | 6.7    | 1.2   |
| 13    | 7.5    | 32   | 32   | 32   | 698   | 64   | 28   | 45     | 1.9   | 1.8   | 4.7    | .96   |
| 14    | 4.9    | 19   | 28   | 28   | 457   | 56   | 35   | 35     | 1.8   | 1.7   | 3.4    | .74   |
| 15    | 3.8    | 18   | 21   | 22   | 468   | 43   | 75   | 31     | 1.6   | 1.9   | 3.1    | .68   |
| 16    | 3.4    | 86   | 18   | 417  | 356   | 36   | 60   | 25     | 1.6   | 4.7   | 473    | .62   |
| 17    | 13     | 66   | 18   | 1980 | 280   | 38   | 43   | 20     | 2.0   | 7.0   | 842    | .55   |
| 18    | 23     | 429  | 25   | 908  | 230   | 31   | 35   | 17     | 273   | 3.8   | 313    | .51   |
| 19    | 13     | 1340 | 23   | 426  | 214   | 29   | 29   | 14     | 98    | 2.8   | 50     | .46   |
| 20    | 11     | 520  | 20   | 192  | 293   | 26   | 28   | 13     | 10    | 2.5   | 18     | .44   |
| 21    | 211    | 123  | 20   | 152  | 312   | 27   | 24   | 13     | 4.3   | 2.2   | 9.1    | .43   |
| 22    | 1220   | 58   | 25   | 146  | 210   | 59   | 21   | 39     | 3.1   | 2.1   | 6.4    | .40   |
| 23    | 1960   | 39   | 24   | 106  | 174   | 58   | 22   | 30     | 2.5   | 4.2   | 4.3    | .46   |
| 24    | 794    | 32   | 19   | 71   | 3050  | 72   | 308  | 19     | 2.2   | 4.6   | 9.7    | .60   |
| 25    | 238    | 26   | 23   | 65   | 1420  | 57   | 123  | 12     | 2.0   | 4.5   | 34     | .67   |
| 26    | 62     | 21   | 25   | 46   | 1030  | 37   | 61   | 9.3    | 26    | 5.8   | 16     | .73   |
| 27    | 35     | 218  | 20   | 37   | 633   | 63   | 88   | 7.7    | 94    | 102   | 6.6    | .69   |
| 28    | 25     | 663  | 21   | 139  | 395   | 227  | 88   | 6.8    | 12    | 38    | 4.0    | .60   |
| 29    | 18     | 286  | 17   | 152  | ---   | 150  | 65   | 21     | 4.6   | 20    | 3.0    | .55   |
| 30    | 15     | 116  | 15   | 125  | ---   | 79   | 45   | 15     | 3.3   | 11    | 2.6    | .59   |
| 31    | 13     | ---  | 14   | 481  | ---   | 867  | ---  | 8.8    | ---   | 8.1   | 2.3    | ---   |
| TOTAL | 4960.6 | 5686 | 2563 | 6166 | 22869 | 3664 | 2522 | 3723.6 | 584.4 | 255.3 | 2750.7 | 36.98 |
| MEAN  | 160    | 190  | 82.7 | 199  | 817   | 118  | 84.1 | 120    | 19.5  | 8.24  | 88.7   | 1.23  |
| MAX   | 1960   | 1340 | 745  | 1980 | 3430  | 867  | 573  | 910    | 273   | 102   | 842    | 4.6   |
| MIN   | 1.4    | 12   | 14   | 18   | 39    | 26   | 21   | 6.8    | 1.6   | 1.5   | 2.3    | .40   |
| CFSM  | .53    | .62  | .27  | .65  | 2.68  | .39  | .28  | .39    | .06   | .03   | .29    | .004  |
| IN.   | .61    | .69  | .31  | .75  | 2.79  | .45  | .31  | .45    | .07   | .03   | .34    | .00   |

|             |       |           |      |     |     |       |     |     |      |      |    |       |
|-------------|-------|-----------|------|-----|-----|-------|-----|-----|------|------|----|-------|
| CAL YR 1984 | TOTAL | 162743.10 | MEAN | 445 | MAX | 16900 | MIN | 1.4 | CFSM | 1.46 | IN | 19.85 |
| WTR YR 1985 | TOTAL | 55781.58  | MEAN | 153 | MAX | 3430  | MIN | .40 | CFSM | .50  | IN | 6.80  |

## 07283000 SKUNA RIVER AT BRUCE, MS

LOCATION.--Lat 33°58'25", long 89°20'50", in SW¼SW¼ sec.6, T.13 S., R.1 W., Chickasaw Meridian, Calhoun County, Hydrologic Unit 08030205, on left (revised) bank on downstream side of bridge on State Highway 9, 1.0 mi south of Bruce.

DRAINAGE AREA.--254 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1947 to current year. Prior to March 1948 monthly discharge only, published in WSP 1311.

REVISED RECORDS.--WSP 1920: 1958(P), 1959-60(M).

GAGE.--Water-stage recorder. Datum of gage is 228.75 ft above National Geodetic Vertical Datum of 1929 (levels by U. S. Army Corps of Engineers). Prior to Jan. 1, 1972, at datum 10.00 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.--No estimated daily discharges. Records good. U. S. Army Corps of Engineers satellite telemeter at station.

AVERAGE DISCHARGE.--38 years, 374 ft<sup>3</sup>/s, 20.00 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 61,400 ft<sup>3</sup>/s, Mar. 21, 1955, gage height, 34.11 ft present datum, from rating curve extended above 19,000 ft<sup>3</sup>/s on basis of incomplete current-meter measurement and computation of flow over the road and through bridge openings; minimum, 0.9 ft<sup>3</sup>/s, Aug. 18, 1954.

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) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Oct. 22 | 1515 | 5,580                             | 15.15               | Feb. 24 | 0645 | *14,200                           | *20.34              |
| Oct. 23 | 1100 | 11,600                            | 19.03               | Apr. 24 | 0700 | 12,500                            | 19.49               |
| Nov. 18 | 2200 | 9,030                             | 17.59               | May 8   | 1745 | 12,800                            | 18.32               |
| Jan. 17 | 0115 | 6,520                             | 15.89               | Aug. 16 | 2200 | 7,610                             | 16.63               |
| Feb. 11 | 0645 | 8,380                             | 17.18               |         |      |                                   |                     |

Minimum daily discharge, 6.1 ft<sup>3</sup>/s, Oct. 1-3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT     | NOV   | DEC  | JAN  | FEB   | MAR  | APR   | MAY   | JUN  | JUL  | AUG  | SEP   |
|-------|---------|-------|------|------|-------|------|-------|-------|------|------|------|-------|
| 1     | 6.1     | 36    | 257  | 94   | 1520  | 183  | 398   | 1770  | 41   | 20   | 26   | 16    |
| 2     | 6.1     | 210   | 251  | 86   | 462   | 175  | 185   | 1460  | 37   | 28   | 24   | 15    |
| 3     | 6.1     | 213   | 379  | 75   | 337   | 155  | 136   | 328   | 34   | 27   | 25   | 20    |
| 4     | 6.2     | 101   | 168  | 144  | 256   | 142  | 113   | 171   | 32   | 20   | 23   | 23    |
| 5     | 6.4     | 71    | 139  | 157  | 574   | 151  | 121   | 125   | 30   | 18   | 22   | 21    |
| 6     | 7.0     | 54    | 340  | 126  | 1280  | 130  | 235   | 100   | 28   | 17   | 142  | 33    |
| 7     | 163     | 44    | 166  | 130  | 910   | 112  | 128   | 90    | 27   | 15   | 101  | 19    |
| 8     | 110     | 39    | 124  | 129  | 459   | 109  | 97    | 4860  | 28   | 14   | 44   | 14    |
| 9     | 43      | 37    | 108  | 103  | 414   | 98   | 84    | 2120  | 28   | 13   | 29   | 13    |
| 10    | 34      | 121   | 98   | 115  | 1940  | 89   | 74    | 371   | 25   | 13   | 22   | 11    |
| 11    | 47      | 133   | 87   | 170  | 3900  | 88   | 69    | 249   | 24   | 12   | 19   | 11    |
| 12    | 31      | 59    | 82   | 100  | 564   | 89   | 64    | 183   | 24   | 12   | 17   | 9.4   |
| 13    | 21      | 45    | 78   | 81   | 325   | 80   | 64    | 145   | 23   | 11   | 17   | 8.9   |
| 14    | 15      | 40    | 75   | 79   | 490   | 74   | 78    | 121   | 21   | 11   | 19   | 8.7   |
| 15    | 14      | 82    | 68   | 73   | 342   | 67   | 116   | 104   | 20   | 14   | 18   | 8.5   |
| 16    | 15      | 321   | 65   | 726  | 256   | 65   | 131   | 89    | 19   | 14   | 2020 | 8.4   |
| 17    | 993     | 102   | 74   | 3150 | 224   | 61   | 80    | 77    | 19   | 15   | 1790 | 8.3   |
| 18    | 121     | 1660  | 90   | 506  | 203   | 57   | 62    | 73    | 366  | 13   | 132  | 7.9   |
| 19    | 79      | 4000  | 81   | 274  | 206   | 54   | 54    | 68    | 101  | 12   | 62   | 7.6   |
| 20    | 141     | 435   | 74   | 153  | 512   | 53   | 48    | 63    | 42   | 11   | 43   | 7.3   |
| 21    | 490     | 207   | 76   | 99   | 309   | 64   | 47    | 68    | 31   | 10   | 35   | 7.3   |
| 22    | 2440    | 144   | 79   | 136  | 214   | 104  | 40    | 276   | 25   | 11   | 31   | 7.3   |
| 23    | 6030    | 118   | 73   | 133  | 215   | 90   | 46    | 125   | 23   | 12   | 28   | 9.4   |
| 24    | 674     | 104   | 67   | 139  | 7540  | 78   | 6480  | 82    | 21   | 12   | 29   | 12    |
| 25    | 184     | 91    | 112  | 137  | 1000  | 65   | 605   | 66    | 31   | 12   | 88   | 11    |
| 26    | 105     | 82    | 99   | 112  | 585   | 56   | 402   | 57    | 109  | 50   | 102  | 9.2   |
| 27    | 74      | 518   | 79   | 107  | 314   | 90   | 596   | 52    | 116  | 619  | 36   | 7.8   |
| 28    | 58      | 1160  | 72   | 603  | 218   | 231  | 660   | 49    | 46   | 82   | 26   | 7.1   |
| 29    | 49      | 260   | 69   | 353  | ---   | 147  | 244   | 52    | 29   | 48   | 22   | 7.0   |
| 30    | 43      | 249   | 66   | 301  | ---   | 104  | 159   | 53    | 24   | 36   | 19   | 42    |
| 31    | 38      | ---   | 66   | 924  | ---   | 2430 | ---   | 46    | ---  | 30   | 18   | ---   |
| TOTAL | 12049.9 | 10736 | 3662 | 9515 | 25569 | 5491 | 11616 | 13493 | 1424 | 1232 | 5029 | 391.1 |
| MEAN  | 389     | 358   | 118  | 307  | 913   | 177  | 387   | 435   | 47.5 | 39.7 | 162  | 13.0  |
| MAX   | 6030    | 4000  | 379  | 3150 | 7540  | 2430 | 6480  | 4860  | 366  | 619  | 2020 | 42    |
| MIN   | 6.1     | 36    | 65   | 73   | 203   | 53   | 40    | 46    | 19   | 10   | 17   | 7.0   |
| CFSM  | 1.53    | 1.41  | .47  | 1.21 | 3.59  | .70  | 1.52  | 1.71  | .19  | .16  | .64  | .05   |
| IN.   | 1.76    | 1.57  | .54  | 1.39 | 3.74  | .80  | 1.70  | 1.98  | .21  | .18  | .74  | .06   |

CAL YR 1984 TOTAL 119080.0 MEAN 325 MAX 17300 MIN 5.5 CFSM 1.28 IN 17.44  
WTR YR 1985 TOTAL 100208.0 MEAN 275 MAX 7540 MIN 6.1 CFSM 1.08 IN 14.68

## YAZOO RIVER BASIN

07287120 YAZOO RIVER NEAR SHELL BLUFF, MS  
(National stream-quality accounting network station)

LOCATION.--Lat 33 23 48 , long 90 16 19 , in NW sec. 26, T.18 N., R.1 W., Choctaw Meridian, Leflore County, Hydrologic Unit 08030206, on downstream side of Poindexter Bridge on county road at Phillipstown, 1.8 mi east of Shell Bluff, 2.5 mi east of intersection of county road and State Highway 7, 4.8 mi east of Morgan City, and at mile 149.8.

DRAINAGE AREA.--7,650 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--Water years 1975 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to August 1981.

WATER TEMPERATURE: October 1975 to August 1981.

REMARKS.--Prior to July 27, 1979, daily values of specific conductance listed as 50 microsiemens represent 50 microsiemens or less due to instrument limitations. After July 27, 1979, and prior to June 5, 1980, daily values of specific conductance listed as 30 microsiemens represent 30 microsiemens or less due to instrument limitations. Stage-discharge relation based on intermittent discharge measurements furnished by Corps of Engineers.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | TUR-<br>BID-<br>ITY<br>(NTU) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>SATUR-<br>ATION | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | STREP-<br>TOCOCCI<br>KF AGAR<br>(COLS.<br>PER<br>100 ML) | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CACO3) |
|--------------|------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|------------------------------|-------------------------------------|----------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|----------------------------------------|--------------------------------------------------------|
| NOV<br>16... | 0900 | 11600                                           | 67                                                | 7.1                            | 13.5                        | 80                           | 9.0                                 | 85                                           | 960                                                            | 260                                                      | 26                                     | 0                                                      |
| FEB<br>26... | 1500 | 20000                                           | 57                                                | 6.6                            | --                          | 95                           | 8.8                                 | --                                           | K1200                                                          | 3000                                                     | 17                                     | 6                                                      |
| MAY<br>08... | 1130 | 8700                                            | 85                                                | 6.8                            | 23.0                        | 100                          | 7.1                                 | 84                                           | 350                                                            | K100                                                     | 28                                     | 8                                                      |
| AUG<br>27... | 1100 | 7200                                            | 73                                                | 6.8                            | 26.0                        | 55                           | 8.6                                 | 106                                          | K1400                                                          | 230                                                      | 23                                     | 3                                                      |

| DATE         | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LINITY<br>FIELD<br>(MG/L<br>AS<br>CACO3) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) |
|--------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|---------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|
| NOV<br>16... | 6.4                                          | 2.3                                                  | 3.3                                          | 20                | .3                                      | 2.9                                                 | 26                                                | 6.7                                           | 3.6                                                 | <.10                                               | 4.7                                               | 57                                                                 |
| FEB<br>26... | 4.3                                          | 1.6                                                  | 3.1                                          | 25                | .3                                      | 2.2                                                 | 11                                                | 7.2                                           | 3.2                                                 | <.10                                               | 6.3                                               | 50                                                                 |
| MAY<br>08... | 7.0                                          | 2.5                                                  | 3.9                                          | 21                | .3                                      | 2.6                                                 | 20                                                | 6.7                                           | 3.5                                                 | .10                                                | 7.4                                               | 62                                                                 |
| AUG<br>27... | 6.0                                          | 2.0                                                  | 3.5                                          | 22                | .3                                      | 2.6                                                 | 20                                                | 6.2                                           | 3.8                                                 | .10                                                | 5.5                                               | 52                                                                 |

| DATE         | SOLIDS,<br>SUM OF<br>CONSTITU-<br>ENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM |
|--------------|---------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------|
| NOV<br>16... | 46                                                                  | .08                                                 | 1790                                              | .17                                                           | .080                                                          | .90                                                                 | .230                                        | <.010                                                | .040                                                           | --                                        | --                                                            |
| FEB<br>26... | 36                                                                  | .07                                                 | 2700                                              | .23                                                           | .050                                                          | .80                                                                 | .220                                        | .020                                                 | .080                                                           | 184                                       | 97                                                            |
| MAY<br>08... | 46                                                                  | .08                                                 | 1460                                              | .84                                                           | .040                                                          | 1.5                                                                 | .310                                        | .030                                                 | .040                                                           | 162                                       | 98                                                            |
| AUG<br>27... | 42                                                                  | .07                                                 | 1010                                              | .19                                                           | .060                                                          | 1.3                                                                 | .110                                        | .050                                                 | .030                                                           | 114                                       | 96                                                            |



## YAZOO RIVER BASIN

07287120 YAZOO RIVER NEAR SHELL BLUFF, MS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | ALUM-<br>INUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AL) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | BERYL-<br>LIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BE) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | COBALT,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CO) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) |
|--------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|--------------------------------------------|--------------------------------------------|
| NOV<br>16... | 60                                                  | <1                                           | 28                                           | <.5                                                  | <1                                           | 1                                                   | <3                                           | 3                                            | 88                                         | 1                                          |
| FEB<br>26... | 190                                                 | <1                                           | 34                                           | <.5                                                  | 1                                            | <1                                                  | <3                                           | 2                                            | 420                                        | 2                                          |
| MAY<br>08... | 150                                                 | <1                                           | 39                                           | <.5                                                  | <1                                           | <1                                                  | <3                                           | 6                                            | 180                                        | 3                                          |
| AUG<br>27... | 100                                                 | 1                                            | 31                                           | <.5                                                  | 1                                            | 3                                                   | <3                                           | 3                                            | 120                                        | 6                                          |

| DATE         | LITHIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS LI) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | MOLYB-<br>DENUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MO) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | SILVER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AG) | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR) | VANA-<br>DIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS V) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) |
|--------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------------|--------------------------------------------|
| NOV<br>16... | <4                                           | 11                                                   | <.1                                          | <10                                                   | 2                                            | <1                                                  | <1                                           | 45                                                   | <6                                                 | 7                                          |
| FEB<br>26... | <4                                           | 38                                                   | .3                                           | <10                                                   | 1                                            | <1                                                  | 1                                            | 34                                                   | <6                                                 | 14                                         |
| MAY<br>08... | <4                                           | 16                                                   | 1.1                                          | <10                                                   | 3                                            | <1                                                  | <1                                           | 44                                                   | <6                                                 | 13                                         |
| AUG<br>27... | <4                                           | 17                                                   | .5                                           | <10                                                   | 2                                            | <1                                                  | <1                                           | 43                                                   | <6                                                 | 11                                         |

## YAZOO RIVER BASIN

07288800 YAZOO RIVER AT REDWOOD, MS  
(National stream-quality accounting network station)

LOCATION.--Lat 32 29 14 , long 90 49 02 , on line between secs.1 and 4, T.17 N., R.4 E., Washington Meridian, Warren County, Hydrologic Unit 08030208, at downstream side of Illinois Central Gulf Railroad bridge, 0.6 mi downstream from U.S. Highway 61, 1.0 mi northwest of Redwood, and at mile 16.7.

DRAINAGE AREA.--12,603 mi<sup>2</sup>.

PERIOD OF RECORD.--Water years 1961-62, 1972 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1978 to September 1981.

WATER TEMPERATURE: October 1978 to September 1981.

REMARKS.--Prior to October 2, 1980, daily values of specific conductance listed as 30 microsiemens represent 30 microsiemens or less due to instrument limitations.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | TUR-<br>BID-<br>ITY<br>(NTU) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | STREP-<br>TOCOCCHI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML) | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CACO3) |
|--------------|------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|------------------------------|-------------------------------------|-------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|
| NOV<br>09... | 1400 | 11900                                           | 88                                                | 7.2                            | 17.5                        | 65                           | 6.5                                 | 68                                  | 1400                                                           | 1100                                                                | 34                                     | 0                                                      |
| JAN<br>23... | 1100 | --                                              | 103                                               | 7.0                            | 4.0                         | 15                           | 10.3                                | 78                                  | 1200                                                           | 4000                                                                | 33                                     | 0                                                      |
| MAR<br>28... | 1400 | --                                              | 118                                               | 7.0                            | 19.0                        | 65                           | 7.5                                 | 81                                  | K7500                                                          | 4900                                                                | 37                                     | 5                                                      |
| MAY<br>20... | 1230 | --                                              | 106                                               | 7.0                            | 23.0                        | 95                           | 7.9                                 | 93                                  | 1600                                                           | 760                                                                 | 33                                     | 0                                                      |
| JUL<br>11... | 1030 | --                                              | 191                                               | 7.8                            | 30.0                        | 90                           | 6.0                                 | 81                                  | 2900                                                           | 5300                                                                | 70                                     | 0                                                      |
| SEP<br>18... | 1400 | 7690                                            | 102                                               | 7.3                            | 27.0                        | 40                           | 6.1                                 | 77                                  | 3300                                                           | 1100                                                                | 35                                     | 0                                                      |

| DATE         | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LITY<br>FIELD<br>(MG/L<br>AS<br>CACO3) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) |
|--------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|------------------------------------------------|--------------------------------------------------------------------|
| NOV<br>09... | 8.6                                          | 3.0                                                  | 3.8                                          | 17                | .3                                      | 4.6                                                 | 33                                              | 5.9                                           | 4.1                                                 | <.10                                               | 6.6                                            | 64                                                                 |
| JAN<br>23... | 8.1                                          | 3.2                                                  | 5.4                                          | 24                | .4                                      | 2.9                                                 | 55                                              | 5.7                                           | 5.4                                                 | <.10                                               | 6.0                                            | 63                                                                 |
| MAR<br>28... | 9.3                                          | 3.4                                                  | 6.5                                          | 26                | .5                                      | 2.4                                                 | 32                                              | 9.7                                           | 8.8                                                 | .10                                                | 5.9                                            | 66                                                                 |
| MAY<br>20... | 8.2                                          | 3.1                                                  | 5.2                                          | 23                | .4                                      | 2.9                                                 | 40                                              | 7.6                                           | 3.8                                                 | .10                                                | 7.8                                            | 69                                                                 |
| JUL<br>11... | 18                                           | 6.0                                                  | 8.9                                          | 21                | .5                                      | 3.0                                                 | 82                                              | 9.7                                           | 4.5                                                 | .20                                                | 10                                             | 121                                                                |
| SEP<br>18... | 9.0                                          | 2.9                                                  | 5.2                                          | 23                | .4                                      | 2.2                                                 | 34                                              | 7.3                                           | 4.8                                                 | .10                                                | 6.2                                            | 62                                                                 |

| DATE         | SOLIDS,<br>SUM OF<br>CONSTITUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM |
|--------------|----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------|
| NOV<br>09... | 57                                                             | .09                                                 | 2060                                              | .32                                                           | .070                                                          | .90                                                                 | .240                                        | .100                                                 | .080                                                           | 78                                         | 92                                                            |
| JAN<br>23... | 70                                                             | .09                                                 | --                                                | .34                                                           | .060                                                          | 1.4                                                                 | .130                                        | .030                                                 | .010                                                           | 104                                        | 96                                                            |
| MAR<br>28... | 66                                                             | .09                                                 | --                                                | .25                                                           | .040                                                          | .70                                                                 | .140                                        | <.010                                                | <.010                                                          | 46                                         | 80                                                            |
| MAY<br>20... | 63                                                             | .09                                                 | --                                                | .91                                                           | .060                                                          | .90                                                                 | .450                                        | <.010                                                | .040                                                           | 128                                        | 95                                                            |
| JUL<br>11... | 110                                                            | .16                                                 | --                                                | .73                                                           | .060                                                          | .70                                                                 | .130                                        | .050                                                 | .050                                                           | 122                                        | 92                                                            |
| SEP<br>18... | 59                                                             | .08                                                 | 1290                                              | .23                                                           | .150                                                          | 4.8                                                                 | .150                                        | .060                                                 | .020                                                           | 2540                                       | 76                                                            |

## YAZOO RIVER BASIN

07288800 YAZOO RIVER AT REDWOOD, MS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | ALUM-<br>INUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AL) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | BERYL-<br>LIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BE) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | COBALT,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CO) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) |
|--------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|--------------------------------------------|--------------------------------------------|
| JAN<br>23... | 110                                                 | <1                                           | 38                                           | .6                                                   | <1                                           | 1                                                   | <3                                           | 3                                            | 250                                        | 1                                          |
| MAR<br>28... | 60                                                  | 1                                            | 44                                           | <.5                                                  | <1                                           | <1                                                  | <3                                           | 2                                            | 130                                        | <1                                         |
| JUL<br>11... | 20                                                  | 2                                            | 68                                           | <.5                                                  | 1                                            | <1                                                  | <3                                           | 17                                           | 24                                         | 1                                          |
| SEP<br>18... | 50                                                  | 3                                            | 42                                           | <.5                                                  | 3                                            | 10                                                  | <3                                           | 5                                            | 55                                         | 4                                          |

| DATE         | LITHIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS LI) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | MOLYB-<br>DENUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MO) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | SILVER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AG) | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR) | VANA-<br>DIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS V) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) |
|--------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------------|--------------------------------------------|
| JAN<br>23... | <4                                           | 24                                                   | .2                                           | <10                                                   | 1                                            | <1                                                  | <1                                           | 57                                                   | <6                                                 | 15                                         |
| MAR<br>28... | <4                                           | 45                                                   | .2                                           | <10                                                   | 3                                            | <1                                                  | <1                                           | 64                                                   | <6                                                 | 9                                          |
| JUL<br>11... | 7                                            | 81                                                   | .4                                           | <10                                                   | 4                                            | <1                                                  | <1                                           | 98                                                   | <6                                                 | 12                                         |
| SEP<br>18... | <4                                           | 48                                                   | .3                                           | <10                                                   | 2                                            | <1                                                  | <1                                           | 56                                                   | <6                                                 | 12                                         |

## MISSISSIPPI RIVER MAIN STEM

07289000 MISSISSIPPI RIVER AT VICKSBURG, MS  
(National stream-quality accounting network station)

LOCATION.--Lat 32°18'45", long 90°54'25", in sec.32, T.16 N., R.3 E., Washington Meridian, Warren County, Hydrologic Unit 08060100, on left bank at downstream side of Interstate 20 bridge, and at mile 435.3.

DRAINAGE AREA.--1,140,500 mi<sup>2</sup>, approximately. The 4,000 mi<sup>2</sup>, approximately, in the Great Divide basin in Southern Wyoming is not included.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Discharge: January 1928 to current year. Prior to July 1931, monthly discharge only, published in WSP 1311.

Gage heights: April 1930 to September 1977 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 since January 1977 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 National Geodetic Vertical Datum of 1929 (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 satellite telemeter at station.

COOPERATION.--Records of gage-height and daily discharge furnished by U. S. Army Corps of Engineers.

AVERAGE DISCHARGE FOR WATER YEAR 1984.--56 years, 582,000 ft<sup>3</sup>/s, 421,504,000 acre-ft/yr.

AVERAGE DISCHARGE FOR WATER YEAR 1985.--57 years, 584,000 ft<sup>3</sup>/s, 422,828,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,080,000 ft<sup>3</sup>/s, Feb. 17, 1937; maximum gage height, 53.2 ft Feb. 21, 1937; minimum discharge, 99,400 ft<sup>3</sup>/s, Nov. 1, 1939; minimum gage height, -7.02 ft, Feb. 3, 1940 (ice jam above).

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).

EXTREMES FOR WATER YEAR 1984.--Maximum daily discharge, 1,600,000 ft<sup>3</sup>/s, May 26 and 27; maximum gage height, 45.80 ft, May 26, 27, 28; minimum daily discharge, 199,000 ft<sup>3</sup>/s, Oct. 18; minimum gage height, 4.6 ft, Oct. 18.

EXTREMES FOR WATER YEAR 1985.--Maximum daily discharge, 1,433,000 ft<sup>3</sup>/s, Mar. 15; maximum gage height, 42.20 ft, Mar. 17-19; minimum daily discharge, 200,000 ft<sup>3</sup>/s, Aug. 14; minimum gage height, Oct. 7, Sept. 25.

## MISSISSIPPI RIVER MAIN STEM

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07289000 MISSISSIPPI RIVER AT VICKSBURG, MS--Continued  
(National stream-quality accounting network station)

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984  
MEAN VALUES

| DAY         | OCT      | NOV       | DEC      | JAN      | FEB      | MAR      | APR      | MAY      | JUN      | JUL       | AUG      | SEP      |
|-------------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|----------|
| 1           | 238000   | 460000    | 722000   | 770000   | 465000   | 965000   | 1190000  | 1210000  | 1490000  | 715000    | 470000   | 295000   |
| 2           | 235000   | 462000    | 782000   | 755000   | 490000   | 965000   | 1200000  | 1220000  | 1450000  | 714000    | 455000   | 290000   |
| 3           | 233000   | 448000    | 820000   | 745000   | 531000   | 960000   | 1220000  | 1240000  | 1400000  | 715000    | 453000   | 285000   |
| 4           | 233000   | 417000    | 880000   | 730000   | 550000   | 945000   | 1230000  | 1270000  | 1350000  | 720000    | 445000   | 278000   |
| 5           | 239000   | 393000    | 922000   | 710000   | 570000   | 905000   | 1250000  | 1280000  | 1310000  | 720000    | 435000   | 275000   |
| 6           | 245000   | 370000    | 960000   | 695000   | 585000   | 940000   | 1260000  | 1290000  | 1280000  | 724000    | 432000   | 275000   |
| 7           | 249000   | 346000    | 1000000  | 685000   | 555000   | 955000   | 1270000  | 1310000  | 1240000  | 725000    | 420000   | 275000   |
| 8           | 249000   | 338000    | 1040000  | 665000   | 540000   | 980000   | 1280000  | 1340000  | 1200000  | 725000    | 415000   | 275000   |
| 9           | 248000   | 331000    | 1070000  | 644000   | 515000   | 1000000  | 1210000  | 1360000  | 1160000  | 721000    | 405000   | 280000   |
| 10          | 243000   | 329000    | 1090000  | 625000   | 512000   | 1040000  | 1300000  | 1390000  | 1120000  | 720000    | 402000   | 287000   |
| 11          | 240000   | 330000    | 1100000  | 600000   | 520000   | 1070000  | 1310000  | 1430000  | 1050000  | 725000    | 395000   | 295000   |
| 12          | 238000   | 337000    | 1110000  | 580000   | 530000   | 1090000  | 1320000  | 1450000  | 1000000  | 725000    | 385000   | 285000   |
| 13          | 233000   | 351000    | 1110000  | 554000   | 570000   | 1110000  | 1330000  | 1470000  | 940000   | 729000    | 288000   | 270000   |
| 14          | 230000   | 364000    | 1110000  | 530000   | 560000   | 1110000  | 1380000  | 1480000  | 870000   | 730000    | 380000   | 265000   |
| 15          | 221000   | 363000    | 1100000  | 510000   | 575000   | 1100000  | 1460000  | 1490000  | 777000   | 730000    | 375000   | 255000   |
| 16          | 214000   | 358000    | 1100000  | 493000   | 590000   | 1110000  | 1510000  | 1510000  | 710000   | 733000    | 370000   | 255000   |
| 17          | 210000   | 365000    | 1100000  | 490000   | 615000   | 1030000  | 1510000  | 1510000  | 670000   | 725000    | 372000   | 259000   |
| 18          | 199000   | 378000    | 1090000  | 500000   | 630000   | 990000   | 1510000  | 1530000  | 669000   | 720000    | 375000   | 265000   |
| 19          | 201000   | 382000    | 1090000  | 505000   | 655000   | 960000   | 1500000  | 1540000  | 670000   | 710000    | 375000   | 270000   |
| 20          | 210000   | 391000    | 1090000  | 507000   | 690000   | 910000   | 1480000  | 1550000  | 675000   | 688000    | 378000   | 275000   |
| 21          | 224000   | 402000    | 1080000  | 505000   | 730000   | 905000   | 1430000  | 1560000  | 675000   | 670000    | 385000   | 278000   |
| 22          | 228000   | 410000    | 1080000  | 500000   | 770000   | 905000   | 1400000  | 1570000  | 683000   | 650000    | 390000   | 280000   |
| 23          | 234000   | 421000    | 1070000  | 497000   | 830000   | 910000   | 1360000  | 1590000  | 680000   | 623000    | 395000   | 280000   |
| 24          | 240000   | 430000    | 1050000  | 495000   | 815000   | 935000   | 1330000  | 1590000  | 685000   | 605000    | 398000   | 275000   |
| 25          | 250000   | 443000    | 992000   | 495000   | 890000   | 950000   | 1300000  | 1600000  | 642000   | 585000    | 395000   | 272000   |
| 26          | 282000   | 462000    | 930000   | 495000   | 915000   | 987000   | 1280000  | 1600000  | 700000   | 565000    | 380000   | 265000   |
| 27          | 317000   | 520000    | 884000   | 490000   | 940000   | 1010000  | 1260000  | 1600000  | 705000   | 547000    | 361000   | 260000   |
| 28          | 343000   | 575000    | 830000   | 480000   | 945000   | 1040000  | 1230000  | 1590000  | 710000   | 530000    | 345000   | 261000   |
| 29          | 369000   | 612000    | 780000   | 470000   | 955000   | 1110000  | 1220000  | 1580000  | 725000   | 510000    | 330000   | 260000   |
| 30          | 400000   | 675000    | 735000   | 460000   | ---      | 1150000  | 1210000  | 1550000  | 720000   | 489000    | 320000   | 260000   |
| 31          | 444000   | ---       | 692000   | 450000   | ---      | 1170000  | ---      | 1530000  | ---      | 480000    | 306000   | ---      |
| TOTAL       | 7939000  | 12463000  | 30409000 | 17630000 | 19038000 | 31207000 | 39740000 | 45230000 | 27956000 | 20668000  | 12030000 | 8200000  |
| MEAN        | 256100   | 415400    | 980900   | 568700   | 656500   | 1007000  | 1325000  | 1459000  | 931900   | 666700    | 388100   | 273300   |
| MAX         | 444000   | 675000    | 1110000  | 770000   | 955000   | 1170000  | 1510000  | 1600000  | 1490000  | 733000    | 470000   | 295000   |
| MIN         | 199000   | 329000    | 692000   | 450000   | 465000   | 905000   | 1190000  | 1210000  | 642000   | 480000    | 288000   | 255000   |
| AC-FT       | 15750000 | 24720000  | 60320000 | 34970000 | 37760000 | 61900000 | 78820000 | 89710000 | 55450000 | 40990000  | 23860000 | 16260000 |
| CAL YR 1983 | TOTAL    | 284883000 | MEAN     | 780500   | MAX      | 1790000  | MIN      | 149000   | AC-FT    | 565100000 |          |          |
| WTR YR 1984 | TOTAL    | 272510000 | MEAN     | 744600   | MAX      | 1600000  | MIN      | 199000   | AC-FT    | 540500000 |          |          |



## MISSISSIPPI RIVER MAIN STEM

07289000 MISSISSIPPI RIVER AT VICKSBURG, MS--Continued  
(National stream-quality accounting network station)

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984  
MEAN VALUES

| DAY         | OCT    | NOV     | DEC    | JAN    | FEB    | MAR     | APR     | MAY     | JUN    | JUL    | AUG    | SEP    |
|-------------|--------|---------|--------|--------|--------|---------|---------|---------|--------|--------|--------|--------|
| 1           | 6.10   | 16.30   | 25.20  | 24.80  | 15.00  | 31.50   | 37.20   | 40.40   | 44.90  | 26.10  | 16.80  | 9.50   |
| 2           | 6.00   | 16.40   | 25.90  | 23.80  | 16.00  | 31.50   | 37.60   | 40.30   | 44.60  | 26.00  | 16.40  | 9.10   |
| 3           | 6.00   | 16.00   | 26.90  | 22.50  | 17.20  | 31.30   | 38.10   | 40.50   | 44.00  | 25.90  | 16.10  | 8.80   |
| 4           | 6.10   | 15.20   | 28.30  | 21.80  | 18.00  | 31.00   | 38.70   | 40.60   | 43.30  | 25.80  | 16.20  | 8.60   |
| 5           | 6.30   | 14.50   | 29.60  | 21.40  | 18.40  | 31.30   | 39.00   | 40.80   | 42.60  | 25.70  | 16.10  | 8.40   |
| 6           | 6.50   | 13.70   | 31.00  | 21.40  | 18.20  | 31.50   | 39.40   | 41.10   | 41.80  | 25.70  | 15.70  | 8.20   |
| 7           | 6.70   | 12.80   | 32.00  | 21.50  | 17.50  | 32.00   | 39.70   | 41.50   | 41.10  | 25.50  | 15.40  | 8.20   |
| 8           | 6.90   | 12.00   | 32.70  | 21.50  | 16.90  | 32.50   | 40.10   | 41.90   | 40.30  | 25.40  | 15.00  | 8.40   |
| 9           | 6.90   | 11.20   | 33.30  | 21.00  | 16.30  | 33.00   | 40.50   | 42.10   | 39.40  | 25.30  | 14.70  | 8.60   |
| 10          | 6.70   | 10.60   | 33.80  | 20.40  | 16.20  | 33.50   | 40.90   | 42.40   | 38.40  | 25.30  | 14.30  | 8.70   |
| 11          | 6.50   | 10.30   | 34.30  | 19.70  | 16.20  | 33.90   | 41.00   | 42.80   | 37.40  | 25.50  | 14.10  | 8.50   |
| 12          | 6.30   | 10.80   | 34.80  | 19.20  | 16.30  | 34.30   | 41.20   | 43.10   | 36.30  | 25.80  | 14.10  | 8.10   |
| 13          | 6.00   | 11.80   | 35.10  | 18.60  | 17.00  | 34.60   | 41.50   | 43.40   | 34.90  | 26.10  | 14.00  | 7.90   |
| 14          | 5.70   | 12.50   | 35.40  | 18.10  | 17.80  | 34.80   | 41.60   | 43.60   | 33.30  | 26.50  | 13.60  | 7.50   |
| 15          | 5.40   | 12.80   | 35.60  | 17.80  | 18.90  | 34.80   | 41.90   | 43.80   | 31.40  | 26.60  | 13.30  | 7.10   |
| 16          | 5.00   | 12.50   | 35.50  | 17.40  | 19.80  | 34.60   | 42.10   | 43.90   | 29.50  | 26.50  | 13.10  | 7.30   |
| 17          | 4.70   | 12.10   | 35.30  | 17.00  | 20.30  | 34.30   | 42.40   | 44.20   | 27.80  | 26.40  | 12.90  | 7.60   |
| 18          | 4.60   | 12.00   | 35.00  | 16.80  | 20.90  | 33.70   | 42.30   | 44.40   | 26.70  | 26.10  | 12.70  | 8.00   |
| 19          | 4.80   | 12.00   | 34.90  | 16.50  | 22.00  | 32.90   | 42.40   | 44.60   | 26.00  | 25.60  | 12.80  | 8.20   |
| 20          | 5.20   | 12.60   | 34.70  | 16.20  | 23.30  | 32.00   | 42.40   | 44.90   | 25.80  | 25.00  | 13.10  | 8.20   |
| 21          | 5.40   | 13.20   | 34.40  | 15.60  | 24.80  | 31.30   | 42.40   | 45.10   | 25.70  | 24.40  | 13.60  | 7.90   |
| 22          | 5.80   | 14.00   | 34.30  | 15.20  | 26.00  | 30.90   | 42.50   | 45.30   | 25.70  | 23.80  | 13.70  | 7.40   |
| 23          | 6.40   | 14.60   | 33.90  | 14.80  | 27.10  | 30.90   | 42.30   | 45.50   | 25.60  | 23.00  | 13.80  | 7.10   |
| 24          | 7.10   | 15.20   | 33.40  | 14.60  | 28.10  | 31.40   | 42.20   | 45.60   | 25.40  | 22.10  | 13.90  | 7.10   |
| 25          | 7.60   | 16.00   | 32.60  | 14.40  | 28.80  | 32.20   | 41.90   | 45.80   | 25.40  | 21.40  | 13.80  | 7.30   |
| 26          | 8.10   | 17.60   | 31.50  | 14.30  | 29.50  | 33.10   | 41.70   | 45.80   | 25.60  | 20.80  | 13.30  | 7.60   |
| 27          | 8.90   | 19.30   | 30.10  | 14.50  | 30.20  | 33.90   | 41.40   | 45.80   | 25.60  | 20.30  | 12.50  | 7.30   |
| 28          | 10.60  | 20.50   | 29.10  | 14.60  | 30.90  | 34.70   | 41.10   | 45.70   | 25.80  | 19.50  | 11.70  | 7.10   |
| 29          | 12.60  | 22.20   | 27.90  | 14.40  | 31.30  | 35.40   | 40.70   | 45.60   | 25.90  | 18.80  | 10.90  | 7.10   |
| 30          | 14.30  | 23.80   | 26.80  | 14.20  | ---    | 36.10   | 40.50   | 45.40   | 26.00  | 18.00  | 10.30  | 7.30   |
| 31          | 15.50  | ---     | 25.80  | 14.40  | ---    | 36.60   | ---     | 45.20   | ---    | 17.30  | 9.80   | ---    |
| TOTAL       | 220.70 | 434.50  | 989.10 | 558.40 | 618.90 | 1025.50 | 1226.70 | 1351.10 | 986.20 | 746.20 | 427.70 | 238.10 |
| MEAN        | 7.12   | 14.48   | 31.91  | 18.01  | 21.34  | 33.08   | 40.89   | 43.58   | 32.87  | 24.07  | 13.80  | 7.94   |
| MAX         | 15.50  | 23.80   | 35.60  | 24.80  | 31.30  | 36.60   | 42.50   | 45.80   | 44.90  | 26.60  | 16.80  | 9.50   |
| MIN         | 4.60   | 10.30   | 25.20  | 14.20  | 15.00  | 30.90   | 37.20   | 40.30   | 25.40  | 17.30  | 9.80   | 7.10   |
| CAL YR 1983 | TOTAL  | 9277.90 | MEAN   | 25.42  | MAX    | 49.30   | MIN     | 4.60    |        |        |        |        |
| WTR YR 1984 | TOTAL  | 8823.10 | MEAN   | 24.11  | MAX    | 45.80   | MIN     | 4.60    |        |        |        |        |

07289000 MISSISSIPPI RIVER AT VICKSBURG, MS--Continued  
(National stream-quality accounting network station)DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY         | OCT      | NOV       | DEC      | JAN      | FEB      | MAR      | APR      | MAY      | JUN      | JUL      | AUG      | SEP     |
|-------------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|
| 1           | 264000   | 630000    | 830000   | 1040000  | 550000   | 1050000  | 1140000  | 809000   | 500000   | 513000   | 295000   | 429000  |
| 2           | 260000   | 624000    | 815000   | 1050000  | 540000   | 1100000  | 1120000  | 805000   | 498000   | 502000   | 293000   | 421000  |
| 3           | 255000   | 620000    | 771000   | 1060000  | 531000   | 1140000  | 1090000  | 803000   | 496000   | 491000   | 292000   | 415000  |
| 4           | 255000   | 635000    | 770000   | 1080000  | 528000   | 1190000  | 1070000  | 809000   | 483000   | 487000   | 292000   | 414000  |
| 5           | 251000   | 644000    | 775000   | 1100000  | 519000   | 1220000  | 1060000  | 812000   | 471000   | 477000   | 296000   | 412000  |
| 6           | 250000   | 670000    | 780000   | 1120000  | 530000   | 1250000  | 1060000  | 824000   | 463000   | 460000   | 301000   | 411000  |
| 7           | 245000   | 700000    | 745000   | 1140000  | 550000   | 1290000  | 1080000  | 835000   | 458000   | 440000   | 317000   | 400000  |
| 8           | 260000   | 735000    | 780000   | 1180000  | 570000   | 1330000  | 1110000  | 848000   | 460000   | 410000   | 330000   | 382000  |
| 9           | 280000   | 773000    | 760000   | 1220000  | 595000   | 1360000  | 1130000  | 859000   | 491000   | 409000   | 341000   | 364000  |
| 10          | 287000   | 780000    | 735000   | 1250000  | 623000   | 1390000  | 1170000  | 876000   | 514000   | 411000   | 339000   | 359000  |
| 11          | 295000   | 785000    | 695000   | 1250000  | 660000   | 1410000  | 1190000  | 880000   | 535000   | 412000   | 330000   | 353000  |
| 12          | 300000   | 790000    | 680000   | 1240000  | 691000   | 1420000  | 1220000  | 881000   | 559000   | 419000   | 314000   | 349000  |
| 13          | 305000   | 789000    | 650000   | 1220000  | 710000   | 1430000  | 1230000  | 882000   | 590000   | 411000   | 305000   | 346000  |
| 14          | 305000   | 785000    | 624000   | 1190000  | 727000   | 1430000  | 1240000  | 880000   | 610000   | 400000   | 200000   | 339000  |
| 15          | 306000   | 750000    | 600000   | 1160000  | 740000   | 1430000  | 1240000  | 848000   | 632000   | 389000   | 299000   | 323000  |
| 16          | 310000   | 707000    | 585000   | 1110000  | 750000   | 1430000  | 1230000  | 762000   | 651000   | 390000   | 298000   | 310000  |
| 17          | 310000   | 715000    | 576000   | 1070000  | 759000   | 1420000  | 1210000  | 711000   | 659000   | 395000   | 299000   | 305000  |
| 18          | 315000   | 725000    | 590000   | 1030000  | 764000   | 1400000  | 1160000  | 670000   | 660000   | 400000   | 302000   | 300000  |
| 19          | 322000   | 738000    | 610000   | 960000   | 755000   | 1400000  | 1110000  | 648000   | 660000   | 398000   | 308000   | 292000  |
| 20          | 340000   | 740000    | 630000   | 899000   | 732000   | 1390000  | 1080000  | 615000   | 658000   | 390000   | 317000   | 286000  |
| 21          | 365000   | 745000    | 669000   | 850000   | 719000   | 1380000  | 1050000  | 610000   | 642000   | 382000   | 339000   | 281000  |
| 22          | 400000   | 750000    | 690000   | 800000   | 703000   | 1380000  | 990000   | 609000   | 628000   | 370000   | 359000   | 279000  |
| 23          | 450000   | 750000    | 720000   | 747000   | 709000   | 1370000  | 961000   | 606000   | 610000   | 367000   | 381000   | 274000  |
| 24          | 511000   | 755000    | 775000   | 691000   | 727000   | 1360000  | 915000   | 603000   | 593000   | 360000   | 395000   | 267000  |
| 25          | 565000   | 760000    | 830000   | 640000   | 748000   | 1360000  | 850000   | 602000   | 588000   | 354000   | 405000   | 262000  |
| 26          | 595000   | 763000    | 877000   | 620000   | 771000   | 1340000  | 832000   | 601000   | 582000   | 349000   | 415000   | 259000  |
| 27          | 620000   | 770000    | 910000   | 609000   | 815000   | 1310000  | 821000   | 599000   | 581000   | 332000   | 422000   | 252000  |
| 28          | 645000   | 795000    | 925000   | 597000   | 858000   | 1280000  | 819000   | 594000   | 579000   | 319000   | 428000   | 256000  |
| 29          | 663000   | 820000    | 940000   | 581000   | ---      | 1190000  | 816000   | 581000   | 565000   | 306000   | 430000   | 270000  |
| 30          | 660000   | 839000    | 945000   | 570000   | ---      | 1170000  | 810000   | 550000   | 541000   | 301000   | 432000   | 279000  |
| 31          | 650000   | ---       | 953000   | 559000   | ---      | 1160000  | ---      | 516000   | ---      | 299000   | 430000   | ---     |
| TOTAL       | 11839000 | 22082000  | 23235000 | 29633000 | 18874000 | 40780000 | 31804000 | 22528000 | 16957000 | 12343000 | 10504000 | 9889000 |
| MEAN        | 381900   | 736100    | 749500   | 955900   | 674100   | 1315000  | 1060000  | 726700   | 565200   | 398200   | 338800   | 329600  |
| MAX         | 663000   | 839000    | 953000   | 1250000  | 858000   | 1430000  | 1240000  | 882000   | 660000   | 513000   | 432000   | 429000  |
| MIN         | 245000   | 620000    | 576000   | 559000   | 519000   | 1050000  | 810000   | 516000   | 458000   | 299000   | 200000   | 252000  |
| CFSM        | .34      | .65       | .66      | .84      | .59      | 1.15     | .93      | .64      | .50      | .35      | .30      | .29     |
| IN.         | .39      | .72       | .76      | .97      | .62      | 1.33     | 1.04     | .73      | .55      | .40      | .34      | .32     |
| CAL YR 1984 | TOTAL    | 278855000 | MEAN     | 761900   | MAX      | 1600000  | MIN      | 245000   | CFSM     | .67      | IN       | 9.10    |
| WTR YR 1985 | TOTAL    | 250468000 | MEAN     | 686200   | MAX      | 1430000  | MIN      | 200000   | CFSM     | .60      | IN       | 8.17    |

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY                                                     | OCT    | NOV    | DEC    | JAN    | FEB   | MAR     | APR     | MAY    | JUN    | JUL    | AUG    | SEP    |
|---------------------------------------------------------|--------|--------|--------|--------|-------|---------|---------|--------|--------|--------|--------|--------|
| 1                                                       | 7.70   | 23.80  | 27.40  | 33.00  | ---   | 33.40   | 38.20   | 30.10  | 19.70  | 19.00  | 8.60   | 14.30  |
| 2                                                       | 7.90   | 23.30  | 26.80  | 33.10  | ---   | 34.90   | 37.50   | 29.80  | 19.50  | 18.60  | 8.50   | 14.40  |
| 3                                                       | 7.70   | 22.60  | 26.70  | 33.40  | ---   | 35.90   | 37.00   | 29.40  | 19.40  | 18.00  | 8.30   | 14.30  |
| 4                                                       | 7.30   | 22.40  | 26.70  | 33.90  | ---   | 36.80   | 36.90   | 29.30  | 19.30  | 17.30  | 8.30   | 13.90  |
| 5                                                       | 6.50   | 22.90  | 27.10  | 34.50  | 17.40 | 37.60   | 37.10   | 29.40  | 18.80  | 16.50  | 8.20   | 13.10  |
| 6                                                       | 6.00   | 23.80  | 27.50  | 35.20  | 17.00 | 38.30   | 37.40   | 29.70  | 18.20  | 15.80  | 8.50   | 12.90  |
| 7                                                       | 5.80   | 24.80  | 27.80  | 35.80  | 17.30 | 39.00   | 37.70   | 30.00  | 17.80  | 15.00  | 9.00   | 12.70  |
| 8                                                       | 6.20   | 25.90  | 27.80  | 36.40  | 18.60 | 39.60   | 38.10   | 30.30  | 17.70  | 14.60  | 9.70   | 12.30  |
| 9                                                       | 7.30   | 26.70  | 27.70  | 36.90  | 20.50 | 40.10   | 38.30   | 30.80  | 18.30  | 14.40  | 10.50  | 11.80  |
| 10                                                      | 8.50   | 27.50  | 27.10  | 37.30  | 21.50 | 40.60   | 38.50   | 31.30  | 18.90  | 14.50  | 10.90  | 11.50  |
| 11                                                      | 8.60   | 27.90  | 26.00  | 37.50  | 22.80 | 40.90   | 38.80   | 31.70  | 19.80  | 14.50  | 10.90  | 11.80  |
| 12                                                      | 8.60   | 28.10  | 24.80  | 37.40  | 24.00 | 41.30   | 39.00   | 31.90  | 20.60  | 14.30  | 10.60  | 11.60  |
| 13                                                      | 8.90   | 27.90  | 23.80  | 37.10  | 24.50 | 41.40   | 39.20   | 31.70  | 21.40  | 14.10  | 10.10  | 11.00  |
| 14                                                      | 9.00   | 27.30  | 22.80  | 36.80  | 24.80 | 41.70   | 39.40   | 31.20  | 21.80  | 13.70  | 9.50   | 10.40  |
| 15                                                      | 8.80   | 26.50  | 22.00  | 36.30  | 24.90 | 41.90   | 39.40   | 30.40  | 22.20  | 13.30  | 9.60   | 9.50   |
| 16                                                      | 8.60   | 26.00  | 21.10  | 35.80  | 25.10 | 42.00   | 39.40   | 29.20  | 22.70  | 13.00  | 9.60   | 8.90   |
| 17                                                      | 8.70   | 25.60  | 20.70  | 35.30  | 25.30 | 42.20   | 39.20   | 28.00  | 23.20  | 13.00  | 9.80   | 9.00   |
| 18                                                      | 9.30   | 25.50  | 20.70  | 34.50  | 25.70 | 42.20   | 38.90   | 26.50  | 23.90  | 13.30  | 9.80   | 8.50   |
| 19                                                      | 9.60   | 25.90  | 21.20  | 33.50  | 26.20 | 42.20   | 38.50   | 25.00  | 24.20  | 13.30  | 9.50   | 7.80   |
| 20                                                      | 9.80   | 26.00  | 22.20  | 32.30  | 26.20 | 42.10   | 37.90   | 24.00  | 24.00  | 13.20  | 9.50   | 7.30   |
| 21                                                      | 10.80  | 26.50  | 23.20  | 30.90  | 26.20 | 42.10   | 37.20   | 23.50  | 23.70  | 12.90  | 10.10  | 7.30   |
| 22                                                      | 12.40  | 26.80  | 24.50  | 29.40  | 26.10 | 42.00   | 36.60   | 23.30  | 23.10  | 12.40  | 10.60  | 7.00   |
| 23                                                      | 14.30  | 26.80  | 25.80  | 27.80  | 26.00 | 41.90   | 35.70   | 23.10  | 22.40  | 12.20  | 11.50  | 6.60   |
| 24                                                      | 16.60  | 26.30  | 27.00  | 26.00  | 26.20 | 41.70   | 34.60   | 22.80  | 21.90  | 11.90  | 12.40  | 6.10   |
| 25                                                      | 18.60  | 26.10  | 28.50  | 24.40  | 26.90 | 41.50   | 33.70   | 22.80  | 21.30  | 11.50  | 13.00  | 5.80   |
| 26                                                      | 20.00  | 26.20  | 29.80  | 22.80  | 28.10 | 41.30   | 33.00   | 22.70  | 21.40  | 11.00  | 13.50  | 5.90   |
| 27                                                      | 21.00  | 26.80  | 30.90  | 21.70  | 29.70 | 41.10   | 32.70   | 22.20  | 21.30  | 10.40  | 13.80  | 6.20   |
| 28                                                      | 22.50  | 27.40  | 31.70  | 21.00  | 31.50 | 40.80   | 32.10   | 21.90  | 21.00  | 9.80   | 14.00  | 6.50   |
| 29                                                      | 23.90  | 27.60  | 32.20  | 20.20  | ---   | 40.30   | 31.50   | 21.40  | 20.30  | 9.10   | 14.00  | 6.90   |
| 30                                                      | 24.40  | 27.60  | 32.50  | 19.40  | ---   | 39.60   | 30.70   | 20.80  | 19.50  | 8.90   | 14.00  | 7.30   |
| 31                                                      | 24.20  | ---    | 32.80  | 19.00  | ---   | 38.90   | ---     | 20.10  | ---    | 8.80   | 14.10  | ---    |
| TOTAL                                                   | 369.50 | 778.50 | 816.80 | 968.60 | ---   | 1245.30 | 1104.20 | 834.30 | 627.30 | 418.30 | 330.40 | 292.60 |
| MEAN                                                    | 11.92  | 25.95  | 26.35  | 31.25  | ---   | 40.17   | 36.81   | 26.91  | 20.91  | 13.49  | 10.66  | 9.75   |
| MAX                                                     | 24.40  | 28.10  | 32.80  | 37.50  | ---   | 42.20   | 39.40   | 31.90  | 24.20  | 19.00  | 14.10  | 14.40  |
| MIN                                                     | 5.80   | 22.40  | 20.70  | 19.00  | ---   | 33.40   | 30.70   | 20.10  | 17.70  | 8.80   | 8.20   | 5.80   |
| CAL YR 1984 TOTAL 9143.60 MEAN 24.98 MAX 45.80 MIN 5.80 |        |        |        |        |       |         |         |        |        |        |        |        |

## MISSISSIPPI RIVER MAIN STEM

07289000 MISSISSIPPI RIVER AT VICKSBURG, MS--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962, 1972 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1975 to current year.

WATER TEMPERATURE: October 1973 to current year.

INSTRUMENTATION.--Specific conductance-temperature recorder since October 1973.

REMARKS.--Interruptions in the record were due to malfunctions of the instrument.

COOPERATION.--Discharge measurements were furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 570 microsiemens Oct. 26, 1983; minimum, 207 microsiemens Nov. 19, 1983.

WATER TEMPERATURE: Maximum, 31.0 C July 14-15, Aug. 8-17, 1977, July 20-28, 1981, July 19-20, 1985; minimum, 0.0 C Jan. 15-27, Feb. 1-2, 1977.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 568 microsiemens Oct. 21, 1981; minimum, 200 microsiemens Dec. 17, 19-20, 1977, Dec. 21, 1982.

WATER TEMPERATURE: Maximum, 32.5 C Aug. 4, 1982; minimum, 1.5 C Jan. 18, 1982.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 493 microsiemens Sept. 30; minimum, 245 microsiemens Jan. 12.

WATER TEMPERATURE: Maximum, 31.0 C July 19-20; minimum, 0.5 C Feb. 4-9.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | TUR-<br>BID-<br>ITY<br>(NTU) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | STREP-<br>TOCOCCI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML) | HARD-<br>NESS<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CAC03) |
|--------------|------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|------------------------------|-------------------------------------|-------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|
| NOV<br>09... | 1200 | 773000                                          | 327                                               | 7.8                            | 15.5                        | 100                          | 8.1                                 | 81                                  | K3400                                                          | 1800                                                               | 130                                    | 36                                                     |
| JAN<br>23... | 1500 | 740000                                          | 370                                               | 7.9                            | 2.5                         | 1.0                          | 9.8                                 | 71                                  | 490                                                            | 270                                                                | 140                                    | 45                                                     |
| MAR<br>28... | 1200 | 1290000                                         | 339                                               | 7.6                            | 13.0                        | 35                           | 8.7                                 | 82                                  | K1800                                                          | 2900                                                               | 130                                    | 46                                                     |
| JUL<br>23... | 1130 | 365000                                          | 397                                               | 7.9                            | 29.0                        | 30                           | 6.7                                 | 87                                  | 3700                                                           | K2400                                                              | 160                                    | 53                                                     |

| DATE         | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LITY<br>FIELD<br>(MG/L<br>AS<br>CAC03) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) |
|--------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|
| NOV<br>09... | 33                                           | 11                                                   | 17                                           | 22                | .7                                      | 3.3                                                 | 92                                              | 52                                            | 17                                                  | .20                                                | 6.6                                               | 203                                                                |
| JAN<br>23... | 38                                           | 12                                                   | 15                                           | 18                | .6                                      | 2.7                                                 | 100                                             | 40                                            | 18                                                  | .10                                                | 7.1                                               | 198                                                                |
| MAR<br>28... | 35                                           | 11                                                   | 13                                           | 17                | .5                                      | 2.5                                                 | 87                                              | 38                                            | 18                                                  | <.10                                               | 6.6                                               | 202                                                                |
| JUL<br>23... | 42                                           | 14                                                   | 19                                           | 20                | .7                                      | 3.4                                                 | 110                                             | 52                                            | 19                                                  | .20                                                | 4.5                                               | 249                                                                |

| DATE         | SOLIDS,<br>SUM OF<br>CONSTITUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>ORTHOPHOS-<br>PHATE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM |
|--------------|----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------|
| NOV<br>09... | 200                                                            | .28                                                 | 424000                                            | 1.0                                                           | <.010                                                         | .60                                                                 | .230                                        | .110                                                 | .090                                                                         | 300                                        | 84                                                            |
| JAN<br>23... | 190                                                            | .27                                                 | 396000                                            | 1.6                                                           | .160                                                          | .40                                                                 | .110                                        | .050                                                 | .040                                                                         | 69                                         | 95                                                            |
| MAR<br>28... | 180                                                            | .27                                                 | 703000                                            | 1.9                                                           | .020                                                          | .70                                                                 | .100                                        | .030                                                 | .030                                                                         | 56                                         | 80                                                            |
| JUL<br>23... | 220                                                            | .34                                                 | 245000                                            | .83                                                           | .460                                                          | .60                                                                 | .130                                        | .130                                                 | .110                                                                         | --                                         | --                                                            |

## MISSISSIPPI RIVER MAIN STEM

07289000 MISSISSIPPI RIVER AT VICKSBURG, MS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | ALUM-<br>INUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AL) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | BERYL-<br>LIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BE) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | COBALT,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CO) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) |
|--------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|--------------------------------------------|--------------------------------------------|
| NOV<br>09... | 30                                                  | 2                                            | 65                                           | <.5                                                  | <1                                           | <1                                                  | <3                                           | 3                                            | 19                                         | <1                                         |
| JAN<br>23... | 20                                                  | 1                                            | 59                                           | 1.0                                                  | <1                                           | 1                                                   | <3                                           | 2                                            | 38                                         | <1                                         |
| MAR<br>28... | 10                                                  | 1                                            | 62                                           | <.5                                                  | <1                                           | <1                                                  | <3                                           | 3                                            | 35                                         | <1                                         |
| JUL<br>23... | 10                                                  | 2                                            | 76                                           | <.5                                                  | 41                                           | <1                                                  | <3                                           | 12                                           | 5                                          | 3                                          |

| DATE         | LITHIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS LI) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | MOLYB-<br>DENUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MO) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | SILVER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AG) | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR) | VANA-<br>DIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS V) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) |
|--------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------------|--------------------------------------------|
| NOV<br>09... | 9                                            | 2                                                    | <.1                                          | <10                                                   | 1                                            | <1                                                  | <1                                           | 160                                                  | <6                                                 | 5                                          |
| JAN<br>23... | 5                                            | 6                                                    | .3                                           | <10                                                   | 1                                            | <1                                                  | <1                                           | 160                                                  | <6                                                 | 6                                          |
| MAR<br>28... | 17                                           | 10                                                   | .4                                           | <10                                                   | 2                                            | <1                                                  | <1                                           | 140                                                  | <6                                                 | 18                                         |
| JUL<br>23... | 15                                           | 12                                                   | .3                                           | <10                                                   | 4                                            | <1                                                  | <1                                           | 200                                                  | <6                                                 | 15                                         |



## MISSISSIPPI RIVER MAIN STEM

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07289000 MISSISSIPPI RIVER AT VICKSBURG, MS--Continued

SPECIFIC CONDUCTANCE, MICRO SIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DAY   | MAX     | MIN | MEAN | MAX      | MIN | MEAN | MAX      | MIN | MEAN | MAX     | MIN | MEAN |
|-------|---------|-----|------|----------|-----|------|----------|-----|------|---------|-----|------|
|       | OCTOBER |     |      | NOVEMBER |     |      | DECEMBER |     |      | JANUARY |     |      |
| 1     | 444     | 442 | 443  | 309      | 302 | 305  | ---      | --- | ---  | ---     | --- | ---  |
| 2     | 444     | 442 | 443  | 304      | 301 | 302  | 286      | 282 | 285  | 286     | 282 | 285  |
| 3     | 441     | 429 | 435  | 301      | 293 | 297  | 283      | 273 | 279  | 283     | 273 | 279  |
| 4     | 429     | 421 | 424  | 294      | 290 | 292  | 272      | 267 | 269  | 272     | 267 | 269  |
| 5     | 422     | 417 | 419  | 295      | 292 | 293  | 272      | 266 | 268  | 272     | 266 | 268  |
| 6     | 415     | 406 | 411  | 309      | 295 | 301  | 295      | 273 | 283  | 295     | 273 | 283  |
| 7     | ---     | --- | ---  | 316      | 309 | 314  | 307      | 295 | 302  | 306     | 294 | 300  |
| 8     | ---     | --- | ---  | 325      | 315 | 321  | 306      | 294 | 300  | 294     | 281 | 288  |
| 9     | 443     | 414 | 430  | 332      | 323 | 326  | 294      | 281 | 288  | 294     | 281 | 288  |
| 10    | ---     | --- | ---  | 346      | 333 | 339  | 281      | 264 | 272  | 281     | 264 | 272  |
| 11    | 463     | 401 | 424  | 354      | 345 | 351  | 263      | 250 | 256  | 263     | 250 | 256  |
| 12    | 464     | 458 | 462  | 350      | 320 | 335  | 250      | 245 | 247  | 250     | 245 | 247  |
| 13    | 458     | 444 | 450  | 318      | 295 | 306  | 250      | 246 | 247  | 250     | 246 | 247  |
| 14    | 443     | 436 | 438  | 293      | 281 | 285  | 261      | 249 | 254  | 261     | 249 | 254  |
| 15    | ---     | --- | ---  | 281      | 275 | 278  | 270      | 260 | 265  | 270     | 260 | 265  |
| 16    | 427     | 416 | 424  | 286      | 275 | 281  | 275      | 270 | 272  | 275     | 270 | 272  |
| 17    | ---     | --- | ---  | 300      | 285 | 292  | 285      | 269 | 278  | 285     | 269 | 278  |
| 18    | 411     | 382 | 399  | 314      | 301 | 307  | 292      | 283 | 287  | 292     | 283 | 287  |
| 19    | 417     | 358 | 389  | 327      | 314 | 321  | 299      | 290 | 294  | 299     | 290 | 294  |
| 20    | 420     | 371 | 399  | 335      | 328 | 331  | 302      | 293 | 298  | 302     | 293 | 298  |
| 21    | ---     | --- | ---  | 338      | 332 | 335  | 307      | 295 | 300  | 307     | 295 | 300  |
| 22    | 390     | 335 | 358  | 339      | 330 | 335  | 315      | 301 | 307  | 315     | 301 | 307  |
| 23    | 423     | 334 | 351  | 332      | 326 | 329  | 324      | 312 | 316  | 324     | 312 | 316  |
| 24    | 367     | 340 | 349  | 328      | 320 | 326  | 331      | 316 | 324  | 331     | 316 | 324  |
| 25    | 348     | 330 | 337  | 339      | 325 | 330  | 329      | 321 | 326  | 329     | 321 | 326  |
| 26    | 335     | 329 | 333  | 355      | 339 | 348  | 332      | 325 | 329  | 332     | 325 | 329  |
| 27    | 332     | 329 | 330  | 355      | 345 | 350  | 334      | 330 | 333  | 334     | 330 | 333  |
| 28    | 332     | 326 | 329  | 346      | 330 | 337  | 339      | 331 | 335  | 339     | 331 | 335  |
| 29    | 329     | 314 | 320  | 331      | 315 | 323  | 340      | 333 | 337  | 340     | 333 | 337  |
| 30    | 313     | 310 | 312  | ---      | --- | ---  | 335      | 324 | 329  | 335     | 324 | 329  |
| 31    | 313     | 308 | 311  | ---      | --- | ---  | 327      | 322 | 324  | 327     | 322 | 324  |
| MONTH | 464     | 308 | 389  | 355      | 275 | 317  | 340      | 245 | 293  | 340     | 245 | 293  |

|       | FEBRUARY |     |     | MARCH |     |     | APRIL |     |     | MAY |     |     |
|-------|----------|-----|-----|-------|-----|-----|-------|-----|-----|-----|-----|-----|
| 1     | 331      | 322 | 327 | 371   | 340 | 350 | 333   | 327 | 330 | 353 | 346 | 349 |
| 2     | 332      | 329 | 330 | 384   | 372 | 381 | 331   | 324 | 328 | 357 | 354 | 356 |
| 3     | 333      | 328 | 330 | 377   | 343 | 362 | 329   | 326 | 328 | 361 | 358 | 359 |
| 4     | 331      | 322 | 328 | 343   | 318 | 329 | 332   | 324 | 328 | 363 | 361 | 362 |
| 5     | 327      | 321 | 323 | 317   | 310 | 313 | 328   | 327 | 327 | 364 | 363 | 364 |
| 6     | 333      | 322 | 328 | 310   | 299 | 305 | 322   | 309 | 316 | 365 | 363 | 364 |
| 7     | 340      | 332 | 336 | 298   | 293 | 295 | 303   | 291 | 297 | 364 | 362 | 363 |
| 8     | 351      | 341 | 345 | 299   | 293 | 295 | 286   | 276 | 281 | 365 | 363 | 364 |
| 9     | 349      | 340 | 345 | 310   | 299 | 305 | 271   | 263 | 266 | 366 | 364 | 365 |
| 10    | 359      | 339 | 350 | 319   | 308 | 315 | 258   | 257 | 257 | 367 | 365 | 366 |
| 11    | 338      | 310 | 324 | 322   | 318 | 320 | 256   | 252 | 254 | 370 | 367 | 369 |
| 12    | 331      | 310 | 320 | 326   | 322 | 324 | 272   | 251 | 268 | 374 | 371 | 372 |
| 13    | 347      | 330 | 340 | 329   | 326 | 328 | 284   | 268 | 277 | 377 | 374 | 375 |
| 14    | 344      | 326 | 337 | 330   | 326 | 328 | 291   | 279 | 285 | 384 | 377 | 379 |
| 15    | 338      | 325 | 335 | 325   | 307 | 318 | 298   | 286 | 292 | 391 | 385 | 388 |
| 16    | 343      | 334 | 339 | 312   | 299 | 303 | 307   | 293 | 301 | 397 | 391 | 394 |
| 17    | 347      | 338 | 343 | 311   | 299 | 303 | 315   | 303 | 309 | 400 | 397 | 398 |
| 18    | 349      | 342 | 346 | 304   | 300 | 301 | 320   | 310 | 316 | 403 | 400 | 402 |
| 19    | 349      | 345 | 347 | 316   | 304 | 312 | 324   | 316 | 320 | 406 | 403 | 405 |
| 20    | 346      | 341 | 343 | 320   | 315 | 318 | 329   | 318 | 324 | 410 | 406 | 408 |
| 21    | 342      | 340 | 341 | 315   | 311 | 312 | 333   | 324 | 329 | 413 | 410 | 412 |
| 22    | 341      | 338 | 339 | 316   | 312 | 313 | 335   | 328 | 332 | 417 | 415 | 415 |
| 23    | 338      | 335 | 337 | 324   | 317 | 320 | 348   | 331 | 334 | 419 | 417 | 418 |
| 24    | 334      | 329 | 332 | 325   | 323 | 324 | 342   | 334 | 338 | 422 | 419 | 420 |
| 25    | 332      | 330 | 331 | 328   | 325 | 326 | 344   | 337 | 341 | 426 | 423 | 424 |
| 26    | 342      | 330 | 335 | 331   | 328 | 329 | 346   | 339 | 343 | 428 | 426 | 427 |
| 27    | 345      | 341 | 343 | 334   | 331 | 332 | 347   | 341 | 344 | 429 | 428 | 428 |
| 28    | 343      | 339 | 341 | 335   | 328 | 332 | 349   | 342 | 346 | 429 | 428 | 429 |
| 29    | ---      | --- | --- | 338   | 328 | 334 | 351   | 344 | 347 | 430 | 428 | 428 |
| 30    | ---      | --- | --- | 333   | 331 | 332 | 351   | 346 | 348 | 429 | 427 | 428 |
| 31    | ---      | --- | --- | 331   | 325 | 328 | ---   | --- | --- | 428 | 425 | 427 |
| MONTH | 359      | 310 | 336 | 384   | 293 | 322 | 351   | 251 | 314 | 430 | 346 | 392 |

## MISSISSIPPI RIVER MAIN STEM

07289000 MISSISSIPPI RIVER AT VICKSBURG, MS--Continued

SPECIFIC CONDUCTANCE, MICRO SIEMENS PER CENTIMETER AT 25 DEG. C, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DAY   | MAX  | MIN | MEAN | MAX  | MIN | MEAN | MAX    | MIN | MEAN | MAX       | MIN | MEAN |
|-------|------|-----|------|------|-----|------|--------|-----|------|-----------|-----|------|
|       | JUNE |     |      | JULY |     |      | AUGUST |     |      | SEPTEMBER |     |      |
| 1     | 427  | 407 | 421  | 388  | 372 | 377  | 423    | 419 | 422  | 412       | 405 | 409  |
| 2     | 408  | 406 | 407  | 375  | 373 | 374  | 421    | 418 | 420  | 406       | 402 | 405  |
| 3     | 408  | 407 | 407  | 373  | 370 | 370  | 420    | 418 | 419  | 403       | 399 | 401  |
| 4     | 410  | 409 | 409  | 370  | 369 | 369  | 419    | 415 | 417  | 409       | 402 | 405  |
| 5     | 411  | 410 | 410  | 372  | 369 | 370  | 424    | 417 | 421  | 420       | 411 | 418  |
| 6     | 413  | 412 | 413  | 378  | 372 | 375  | 429    | 424 | 427  | 422       | 414 | 419  |
| 7     | 415  | 414 | 415  | 387  | 379 | 383  | 432    | 428 | 429  | 418       | 413 | 416  |
| 8     | 417  | 415 | 416  | 393  | 387 | 390  | 431    | 426 | 429  | 417       | 415 | 416  |
| 9     | 419  | 418 | 418  | 397  | 393 | 395  | 427    | 421 | 425  | 428       | 419 | 423  |
| 10    | 421  | 420 | 420  | 402  | 397 | 399  | 423    | 420 | 422  | 454       | 431 | 444  |
| 11    | 422  | 421 | 421  | 413  | 401 | 406  | 420    | 417 | 419  | 450       | 445 | 447  |
| 12    | 424  | 422 | 423  | 412  | 410 | 411  | 419    | 414 | 417  | 448       | 446 | 447  |
| 13    | 426  | 425 | 425  | 409  | 405 | 407  | 416    | 410 | 414  | 451       | 449 | 450  |
| 14    | 428  | 426 | 427  | 404  | 401 | 403  | 411    | 403 | 407  | 454       | 451 | 453  |
| 15    | 430  | 428 | 429  | 400  | 399 | 400  | 403    | 396 | 399  | 454       | 451 | 452  |
| 16    | 432  | 431 | 432  | 399  | 397 | 399  | 414    | 397 | 406  | 453       | 451 | 452  |
| 17    | 435  | 434 | 435  | 401  | 398 | 399  | 417    | 414 | 416  | 477       | 416 | 443  |
| 18    | 438  | 435 | 436  | 400  | 397 | 398  | 416    | 412 | 414  | 429       | 421 | 425  |
| 19    | 437  | 434 | 435  | 399  | 397 | 398  | 412    | 409 | 411  | 432       | 427 | 429  |
| 20    | 436  | 432 | 434  | 396  | 391 | 393  | 411    | 407 | 410  | 440       | 427 | 430  |
| 21    | 434  | 430 | 432  | 391  | 389 | 389  | 408    | 406 | 407  | 454       | 439 | 450  |
| 22    | 432  | 428 | 430  | 388  | 387 | 387  | 416    | 408 | 412  | 466       | 457 | 462  |
| 23    | 430  | 420 | 428  | 405  | 384 | 395  | 424    | 416 | 420  | 475       | 469 | 473  |
| 24    | 427  | 407 | 423  | 404  | 402 | 404  | 430    | 425 | 428  | 473       | 468 | 470  |
| 25    | 409  | 386 | 397  | 407  | 400 | 402  | 433    | 430 | 431  | 473       | 468 | 470  |
| 26    | 387  | 379 | 382  | 415  | 405 | 410  | 436    | 435 | 435  | 468       | 453 | 466  |
| 27    | 381  | 376 | 378  | 416  | 415 | 416  | 436    | 432 | 434  | 482       | 465 | 473  |
| 28    | 378  | 376 | 377  | 427  | 414 | 416  | 432    | 428 | 430  | 489       | 483 | 487  |
| 29    | 380  | 378 | 379  | 417  | 414 | 415  | 429    | 423 | 425  | 489       | 484 | 485  |
| 30    | 395  | 381 | 384  | 418  | 414 | 418  | 423    | 417 | 420  | 493       | 482 | 490  |
| 31    | ---  | --- | ---  | 420  | 415 | 418  | 417    | 411 | 414  | ---       | --- | ---  |
| MONTH | 438  | 376 | 415  | 427  | 369 | 396  | 436    | 396 | 419  | 493       | 399 | 444  |
| YEAR  | 493  | 245 | 367  |      |     |      |        |     |      |           |     |      |

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DAY   | MAX     | MIN  | MEAN | MAX      | MIN  | MEAN | MAX      | MIN | MEAN | MAX     | MIN | MEAN |
|-------|---------|------|------|----------|------|------|----------|-----|------|---------|-----|------|
|       | OCTOBER |      |      | NOVEMBER |      |      | DECEMBER |     |      | JANUARY |     |      |
| 1     | 19.5    | 19.0 | 19.5 | 17.0     | 17.0 | 17.0 |          |     |      | ---     | --- | ---  |
| 2     | 19.0    | 19.0 | 19.0 | 17.0     | 17.0 | 17.0 |          |     |      | 10.0    | 9.5 | 10.0 |
| 3     | 19.0    | 18.5 | 19.0 | 16.5     | 16.5 | 16.5 |          |     |      | 9.5     | 9.0 | 9.5  |
| 4     | 19.0    | 18.5 | 18.5 | 16.5     | 16.0 | 16.5 |          |     |      | 9.0     | 8.5 | 9.0  |
| 5     | 19.0    | 18.5 | 18.5 | 16.0     | 15.5 | 16.0 |          |     |      | 8.5     | 8.0 | 8.5  |
| 6     | 19.0    | 18.5 | 18.5 | 15.5     | 15.5 | 15.5 |          |     |      | 8.0     | 7.5 | 8.0  |
| 7     | 19.0    | 18.5 | 19.0 | 15.5     | 14.5 | 15.0 |          |     |      | 7.5     | 7.0 | 7.5  |
| 8     | 19.0    | 19.0 | 19.0 | 14.5     | 14.5 | 14.5 |          |     |      | 7.0     | 7.0 | 7.0  |
| 9     | 19.0    | 19.0 | 19.0 | 14.5     | 14.0 | 14.5 |          |     |      | 7.0     | 6.5 | 6.5  |
| 10    | 19.0    | 19.0 | 19.0 | 14.0     | 14.0 | 14.0 |          |     |      | 6.5     | 6.5 | 6.5  |
| 11    | 19.5    | 19.0 | 19.5 | 13.5     | 13.0 | 13.5 |          |     |      | 6.5     | 6.0 | 6.0  |
| 12    | 19.5    | 19.5 | 19.5 | 13.0     | 12.5 | 12.5 |          |     |      | 6.0     | 5.5 | 5.5  |
| 13    | 19.5    | 19.5 | 19.5 | 12.5     | 12.0 | 12.0 |          |     |      | 5.5     | 5.0 | 5.0  |
| 14    | 19.5    | 19.5 | 19.5 | 12.0     | 11.5 | 11.5 |          |     |      | 5.0     | 5.0 | 5.0  |
| 15    | 19.5    | 19.5 | 19.5 | 11.5     | 11.5 | 11.5 |          |     |      | 5.0     | 5.0 | 5.0  |
| 16    | 20.0    | 19.5 | 20.0 | 11.5     | 11.0 | 11.5 |          |     |      | 5.0     | 4.5 | 4.5  |
| 17    | 20.0    | 20.0 | 20.0 | 11.0     | 10.5 | 11.0 |          |     |      | 4.5     | 4.0 | 4.5  |
| 18    | 20.5    | 20.0 | 20.0 | 11.0     | 10.5 | 11.0 |          |     |      | 4.0     | 4.0 | 4.0  |
| 19    | 20.5    | 20.0 | 20.0 | 11.0     | 10.5 | 11.0 |          |     |      | 4.0     | 4.0 | 4.0  |
| 20    | 20.5    | 20.0 | 20.0 | 10.5     | 10.0 | 10.5 |          |     |      | 4.0     | 3.5 | 3.5  |
| 21    | 20.0    | 20.0 | 20.0 | 10.5     | 9.5  | 10.0 |          |     |      | 3.5     | 3.0 | 3.0  |
| 22    | 20.0    | 19.5 | 19.5 | 9.5      | 9.5  | 9.5  |          |     |      | 3.0     | 2.5 | 3.0  |
| 23    | 19.5    | 18.5 | 19.0 | 9.5      | 9.0  | 9.5  |          |     |      | 2.5     | 2.5 | 2.5  |
| 24    | 18.5    | 17.5 | 18.0 | 9.5      | 9.0  | 9.0  |          |     |      | 2.5     | 2.0 | 2.5  |
| 25    | 17.5    | 17.5 | 17.5 | 9.0      | 9.0  | 9.0  |          |     |      | 2.5     | 2.0 | 2.0  |
| 26    | 17.5    | 17.0 | 17.0 | 9.5      | 9.0  | 9.5  |          |     |      | 2.0     | 2.0 | 2.0  |
| 27    | 17.0    | 16.5 | 17.0 | 10.0     | 9.5  | 10.0 |          |     |      | 2.0     | 2.0 | 2.0  |
| 28    | 17.0    | 16.5 | 16.5 | 10.0     | 10.0 | 10.0 |          |     |      | 2.0     | 2.0 | 2.0  |
| 29    | 16.5    | 16.0 | 16.5 | 10.0     | 10.0 | 10.0 |          |     |      | 2.0     | 2.0 | 2.0  |
| 30    | 16.5    | 16.0 | 16.5 | ---      | ---  | ---  |          |     |      | 2.5     | 2.0 | 2.0  |
| 31    | 17.0    | 16.5 | 16.5 | ---      | ---  | ---  |          |     |      | 2.5     | 2.0 | 2.5  |
| MONTH | 20.5    | 16.0 | 18.5 | 17.0     | 9.0  | 12.5 |          |     |      | 10.0    | 2.0 | 5.0  |

## MISSISSIPPI RIVER MAIN STEM

07289000 MISSISSIPPI RIVER AT VICKSBURG, MS--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DAY   | MAX      | MIN  | MEAN | MAX   | MIN  | MEAN | MAX    | MIN  | MEAN | MAX       | MIN  | MEAN |
|-------|----------|------|------|-------|------|------|--------|------|------|-----------|------|------|
|       | FEBRUARY |      |      | MARCH |      |      | APRIL  |      |      | MAY       |      |      |
| 1     | 2.5      | 1.5  | 2.0  | 9.0   | 8.5  | 8.5  | 16.0   | 15.5 | 15.5 | 22.5      | 22.0 | 22.5 |
| 2     | 1.5      | 1.0  | 1.5  | 8.5   | 8.5  | 8.5  | 16.0   | 16.0 | 16.0 | 22.5      | 22.5 | 22.5 |
| 3     | 1.0      | 1.0  | 1.0  | 8.5   | 8.5  | 8.5  | 16.0   | 16.0 | 16.0 | 22.5      | 22.0 | 22.0 |
| 4     | 1.0      | .5   | .5   | 9.0   | 8.5  | 9.0  | 16.0   | 16.0 | 16.0 | 22.0      | 22.0 | 22.0 |
| 5     | .5       | .5   | .5   | 9.0   | 9.0  | 9.0  | 16.0   | 16.0 | 16.0 | 22.5      | 22.0 | 22.0 |
| 6     | .5       | .5   | .5   | 9.0   | 9.0  | 9.0  | 16.0   | 16.0 | 16.0 | 22.5      | 22.0 | 22.5 |
| 7     | .5       | .5   | .5   | 9.5   | 9.0  | 9.0  | 16.0   | 16.0 | 16.0 | 22.5      | 22.5 | 22.5 |
| 8     | .5       | .5   | .5   | 9.5   | 9.0  | 9.5  | 16.0   | 15.5 | 15.5 | 23.0      | 22.5 | 22.5 |
| 9     | 1.0      | .5   | .5   | 9.5   | 9.5  | 9.5  | 15.5   | 15.0 | 15.5 | 23.0      | 22.5 | 22.5 |
| 10    | 1.5      | 1.0  | 1.0  | 10.0  | 9.5  | 10.0 | 15.0   | 15.0 | 15.0 | 22.5      | 22.5 | 22.5 |
| 11    | 2.0      | 1.5  | 2.0  | 10.5  | 10.0 | 10.5 | 15.0   | 15.0 | 15.0 | 22.5      | 22.5 | 22.5 |
| 12    | 2.0      | 2.0  | 2.0  | 11.0  | 10.5 | 11.0 | 15.5   | 15.0 | 15.0 | 22.5      | 22.5 | 22.5 |
| 13    | 2.5      | 2.0  | 2.0  | 11.0  | 11.0 | 11.0 | 15.5   | 15.5 | 15.5 | 23.0      | 22.5 | 22.5 |
| 14    | 2.5      | 2.0  | 2.5  | 11.0  | 11.0 | 11.0 | 15.5   | 15.5 | 15.5 | 23.0      | 23.0 | 23.0 |
| 15    | 2.5      | 2.5  | 2.5  | 11.0  | 11.0 | 11.0 | 15.5   | 15.5 | 15.5 | 23.0      | 23.0 | 23.0 |
| 16    | 2.5      | 2.5  | 2.5  | 11.0  | 11.0 | 11.0 | 16.0   | 15.5 | 15.5 | 23.5      | 23.0 | 23.5 |
| 17    | 3.0      | 2.5  | 2.5  | 11.5  | 11.0 | 11.0 | 16.0   | 16.0 | 16.0 | 23.5      | 23.5 | 23.5 |
| 18    | 3.0      | 3.0  | 3.0  | 11.5  | 11.5 | 11.5 | 16.5   | 16.0 | 16.0 | 23.5      | 23.5 | 23.5 |
| 19    | 3.5      | 3.0  | 3.5  | 12.0  | 11.5 | 11.5 | 16.5   | 16.5 | 16.5 | 23.5      | 23.5 | 23.5 |
| 20    | 3.5      | 3.5  | 3.5  | 12.0  | 11.5 | 12.0 | 17.0   | 16.5 | 17.0 | 23.5      | 23.5 | 23.5 |
| 21    | 4.0      | 3.5  | 4.0  | 12.0  | 12.0 | 12.0 | 17.5   | 17.0 | 17.5 | 23.5      | 23.5 | 23.5 |
| 22    | 5.0      | 4.0  | 4.5  | 12.0  | 12.0 | 12.0 | 18.5   | 17.5 | 18.0 | 23.5      | 23.5 | 23.5 |
| 23    | 6.0      | 5.0  | 5.5  | 12.0  | 12.0 | 12.0 | 19.0   | 18.5 | 18.5 | 23.5      | 23.5 | 23.5 |
| 24    | 6.5      | 6.0  | 6.0  | 12.0  | 12.0 | 12.0 | 19.5   | 19.0 | 19.5 | 23.5      | 23.5 | 23.5 |
| 25    | 7.0      | 6.5  | 6.5  | 12.5  | 12.0 | 12.0 | 20.0   | 19.5 | 20.0 | 23.5      | 23.5 | 23.5 |
| 26    | 8.0      | 7.0  | 7.5  | 12.5  | 12.5 | 12.5 | 20.5   | 20.0 | 20.0 | 23.5      | 23.5 | 23.5 |
| 27    | 8.5      | 8.0  | 8.0  | 13.0  | 12.5 | 13.0 | 21.0   | 20.5 | 20.5 | 23.5      | 23.5 | 23.5 |
| 28    | 8.5      | 8.5  | 8.5  | 14.0  | 13.0 | 13.5 | 21.5   | 21.0 | 21.0 | 23.5      | 23.5 | 23.5 |
| 29    | ---      | ---  | ---  | 14.5  | 14.0 | 14.0 | 22.0   | 21.5 | 22.0 | 24.0      | 23.5 | 23.5 |
| 30    | ---      | ---  | ---  | 15.0  | 14.5 | 15.0 | 22.5   | 22.0 | 22.5 | 24.0      | 23.5 | 23.5 |
| 31    | ---      | ---  | ---  | 15.5  | 15.0 | 15.5 | ---    | ---  | ---  | 24.5      | 24.0 | 24.0 |
| MONTH | 8.5      | .5   | 3.0  | 15.5  | 8.5  | 11.0 | 22.5   | 15.0 | 17.0 | 24.5      | 22.0 | 23.0 |
|       | JUNE     |      |      | JULY  |      |      | AUGUST |      |      | SEPTEMBER |      |      |
| 1     | 25.0     | 24.0 | 24.5 | 26.0  | 25.5 | 25.5 | 29.5   | 29.0 | 29.5 | 28.0      | 27.5 | 27.5 |
| 2     | 25.0     | 24.5 | 25.0 | 26.0  | 25.0 | 25.0 | 30.5   | 29.5 | 29.5 | 27.5      | 27.0 | 27.5 |
| 3     | 25.5     | 25.0 | 25.5 | 26.0  | 26.0 | 26.0 | 29.5   | 29.0 | 29.5 | 27.0      | 26.0 | 26.5 |
| 4     | 26.0     | 25.5 | 25.5 | 26.0  | 26.0 | 26.0 | 29.5   | 29.0 | 29.5 | 26.0      | 26.0 | 26.0 |
| 5     | 26.5     | 26.0 | 26.0 | 26.5  | 26.5 | 26.5 | 29.5   | 29.0 | 29.0 | 26.0      | 25.5 | 26.0 |
| 6     | 27.0     | 26.5 | 26.5 | 27.0  | 26.5 | 27.0 | 29.0   | 28.5 | 29.0 | 26.0      | 25.5 | 26.0 |
| 7     | 27.0     | 26.5 | 26.5 | 27.5  | 27.0 | 27.5 | 28.5   | 28.0 | 28.5 | 26.5      | 26.0 | 26.0 |
| 8     | 27.0     | 26.5 | 26.5 | 28.0  | 27.5 | 27.5 | 28.0   | 27.5 | 28.0 | 26.5      | 26.5 | 26.5 |
| 9     | 27.5     | 27.0 | 27.5 | 28.5  | 28.0 | 28.5 | 28.5   | 28.0 | 28.0 | 27.0      | 26.5 | 26.5 |
| 10    | 27.5     | 27.5 | 27.5 | 29.0  | 28.5 | 29.0 | 28.5   | 28.0 | 28.5 | 27.0      | 26.5 | 27.0 |
| 11    | 27.5     | 27.0 | 27.0 | 29.0  | 29.0 | 29.0 | 28.5   | 28.5 | 28.5 | 27.0      | 26.5 | 27.0 |
| 12    | 27.0     | 27.0 | 27.0 | 29.5  | 29.0 | 29.5 | 29.0   | 28.5 | 29.0 | 27.0      | 26.5 | 27.0 |
| 13    | 26.0     | 25.5 | 26.0 | 30.0  | 29.5 | 30.0 | 29.0   | 29.0 | 29.0 | 27.0      | 26.5 | 27.0 |
| 14    | 25.5     | 25.5 | 25.5 | 30.5  | 30.0 | 30.5 | 29.0   | 29.0 | 29.0 | 26.5      | 26.0 | 26.5 |
| 15    | 25.5     | 25.0 | 25.5 | 30.5  | 30.5 | 30.5 | 29.0   | 28.0 | 28.5 | 26.0      | 25.5 | 26.0 |
| 16    | 25.5     | 25.0 | 25.0 | 30.5  | 30.5 | 30.5 | 28.0   | 28.0 | 28.0 | 25.5      | 25.0 | 25.0 |
| 17    | 25.5     | 25.0 | 25.0 | 30.5  | 30.5 | 30.5 | 28.0   | 27.5 | 28.0 | 25.0      | 24.5 | 25.0 |
| 18    | 25.0     | 24.0 | 24.0 | 30.5  | 30.5 | 30.5 | 28.5   | 28.0 | 28.5 | 25.0      | 24.5 | 24.5 |
| 19    | 24.0     | 23.5 | 23.5 | 31.0  | 30.5 | 30.5 | 28.5   | 28.5 | 28.5 | 25.0      | 24.5 | 24.5 |
| 20    | 25.5     | 23.5 | 24.0 | 31.0  | 30.5 | 30.5 | 28.5   | 28.5 | 28.5 | 24.5      | 24.5 | 24.5 |
| 21    | 25.0     | 23.5 | 24.0 | 30.5  | 30.5 | 30.5 | 28.5   | 28.5 | 28.5 | 25.0      | 24.5 | 24.5 |
| 22    | 25.5     | 24.0 | 25.0 | 30.5  | 30.0 | 30.5 | 28.5   | 28.0 | 28.5 | 25.0      | 24.5 | 24.5 |
| 23    | 25.5     | 25.0 | 25.5 | 30.0  | 30.0 | 30.0 | 28.5   | 28.0 | 28.5 | 25.0      | 24.5 | 24.5 |
| 24    | 25.5     | 25.0 | 25.5 | 30.0  | 30.0 | 30.0 | 28.5   | 28.0 | 28.5 | 24.5      | 24.5 | 24.5 |
| 25    | 25.5     | 25.5 | 25.5 | 30.0  | 30.0 | 30.0 | 28.0   | 28.0 | 28.0 | 24.0      | 23.5 | 23.5 |
| 26    | 26.0     | 25.5 | 25.5 | 30.0  | 29.5 | 30.0 | 28.0   | 28.0 | 28.0 | 23.5      | 23.0 | 23.0 |
| 27    | 26.0     | 25.5 | 26.0 | 30.5  | 30.0 | 30.0 | 28.0   | 27.5 | 28.0 | 23.0      | 22.5 | 22.5 |
| 28    | 27.0     | 25.5 | 26.0 | 30.0  | 30.0 | 30.0 | 27.5   | 27.0 | 27.5 | 22.5      | 22.0 | 22.5 |
| 29    | 27.5     | 26.0 | 27.0 | 30.0  | 30.0 | 30.0 | 27.5   | 27.0 | 27.5 | 22.0      | 22.0 | 22.0 |
| 30    | 27.0     | 27.0 | 27.0 | 30.0  | 29.5 | 29.5 | 27.5   | 27.0 | 27.5 | 22.0      | 21.5 | 22.0 |
| 31    | ---      | ---  | ---  | 29.5  | 29.5 | 29.5 | 27.5   | 27.5 | 27.5 | ---       | ---  | ---  |
| MONTH | 27.5     | 23.5 | 25.5 | 31.0  | 25.0 | 29.0 | 30.5   | 27.0 | 28.5 | 28.0      | 21.5 | 25.0 |
| YEAR  | 31.0     | .5   | 18.0 |       |      |      |        |      |      |           |      |      |

## BIG BLACK RIVER BASIN

07289350 BIG BLACK RIVER AT WEST, MS

LOCATION.--Lat 33°11'39", long 89°46'15", in NW¼ 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.--985 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.

GAGE.--Water-stage recorder. Datum of gage is 249.74 ft above National Geodetic Vertical Datum of 1929 (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: July 28 to Aug. 2. Records good. Telemeter at station.

AVERAGE DISCHARGE.--14 years, 1,760 ft<sup>3</sup>/s, 24.26 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 71,200 ft<sup>3</sup>/s May 21, 1983, gage height, 26.08 ft; minimum, 28.8 ft<sup>3</sup>/s, Oct. 7, 1981, gage height, 1.33 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 30, 1951, reached a stage of 24.09 ft, 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) |
|---------|------|--------------------------------|------------------|--------------------------------------------|------|--------------------------------|------------------|
| Oct. 25 | 0300 | *20,800                        | *21.20           | No other peak greater than base discharge. |      |                                |                  |

Minimum discharge, 38.0 ft<sup>3</sup>/s, Oct. 2, 3, gage height, 1.52 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB    | MAR   | APR   | MAY   | JUN  | JUL  | AUG  | SEP  |
|-------|-------|-------|-------|-------|--------|-------|-------|-------|------|------|------|------|
| 1     | 40    | 433   | 1060  | 297   | 2130   | 4750  | 2140  | 2320  | 175  | 176  | 81   | 76   |
| 2     | 38    | 1140  | 926   | 357   | 2260   | 3590  | 1900  | 4000  | 158  | 142  | 78   | 67   |
| 3     | 38    | 1490  | 1500  | 345   | 2190   | 2710  | 1950  | 4390  | 144  | 131  | 107  | 65   |
| 4     | 39    | 1510  | 1480  | 371   | 2220   | 1740  | 1750  | 6570  | 139  | 124  | 78   | 75   |
| 5     | 40    | 1690  | 1590  | 422   | 2500   | 1190  | 1030  | 7250  | 122  | 118  | 67   | 79   |
| 6     | 46    | 1560  | 1700  | 471   | 3070   | 973   | 910   | 4880  | 114  | 112  | 82   | 83   |
| 7     | 79    | 846   | 1320  | 484   | 3470   | 830   | 908   | 3370  | 109  | 108  | 223  | 91   |
| 8     | 219   | 471   | 942   | 474   | 3660   | 731   | 892   | 2060  | 104  | 106  | 260  | 81   |
| 9     | 247   | 360   | 726   | 440   | 4680   | 676   | 708   | 1170  | 109  | 103  | 226  | 75   |
| 10    | 276   | 331   | 588   | 410   | 4980   | 641   | 545   | 865   | 113  | 100  | 148  | 102  |
| 11    | 270   | 456   | 514   | 432   | 5450   | 617   | 465   | 728   | 112  | 100  | 107  | 133  |
| 12    | 157   | 554   | 464   | 479   | 7940   | 596   | 423   | 605   | 139  | 103  | 84   | 101  |
| 13    | 109   | 460   | 430   | 452   | 7370   | 592   | 395   | 503   | 197  | 102  | 74   | 87   |
| 14    | 91    | 338   | 407   | 392   | 8740   | 567   | 386   | 423   | 193  | 100  | 64   | 81   |
| 15    | 78    | 311   | 387   | 355   | 7560   | 526   | 577   | 388   | 171  | 98   | 71   | 65   |
| 16    | 73    | 466   | 370   | 402   | 5080   | 489   | 889   | 356   | 153  | 96   | 581  | 57   |
| 17    | 880   | 682   | 354   | 1830  | 3650   | 460   | 1090  | 316   | 132  | 94   | 2030 | 53   |
| 18    | 1460  | 711   | 349   | 2170  | 2690   | 442   | 1100  | 282   | 557  | 93   | 1680 | 50   |
| 19    | 1240  | 1380  | 357   | 1940  | 1550   | 413   | 789   | 266   | 857  | 93   | 825  | 48   |
| 20    | 1020  | 1310  | 365   | 2040  | 1000   | 393   | 538   | 258   | 618  | 91   | 338  | 46   |
| 21    | 1040  | 1090  | 356   | 2170  | 871    | 384   | 424   | 232   | 383  | 90   | 190  | 46   |
| 22    | 2440  | 710   | 346   | 1570  | 817    | 470   | 386   | 239   | 280  | 93   | 134  | 45   |
| 23    | 11500 | 449   | 352   | 771   | 791    | 640   | 357   | 295   | 190  | 106  | 106  | 43   |
| 24    | 16500 | 363   | 344   | 600   | 2500   | 791   | 546   | 320   | 138  | 110  | 92   | 42   |
| 25    | 19500 | 327   | 331   | 584   | 4140   | 759   | 817   | 307   | 123  | 109  | 89   | 43   |
| 26    | 13200 | 314   | 319   | 558   | 5010   | 645   | 1050  | 264   | 120  | 109  | 88   | 64   |
| 27    | 8220  | 318   | 303   | 518   | 7010   | 569   | 1370  | 221   | 143  | 375  | 102  | 87   |
| 28    | 4970  | 764   | 285   | 1030  | 6440   | 1190  | 1340  | 197   | 168  | 323  | 106  | 77   |
| 29    | 3380  | 829   | 274   | 1170  | ---    | 1320  | 1130  | 178   | 193  | 193  | 100  | 63   |
| 30    | 1790  | 1060  | 272   | 1340  | ---    | 1080  | 819   | 170   | 194  | 128  | 91   | 56   |
| 31    | 597   | ---   | 275   | 1920  | ---    | 1750  | ---   | 174   | ---  | 96   | 84   | ---  |
| TOTAL | 89577 | 22723 | 19286 | 26794 | 109769 | 32524 | 27624 | 43597 | 6348 | 3922 | 8386 | 2081 |
| MEAN  | 2890  | 757   | 622   | 864   | 3920   | 1049  | 921   | 1406  | 212  | 127  | 271  | 69.4 |
| MAX   | 19500 | 1690  | 1700  | 2170  | 8740   | 4750  | 2140  | 7250  | 857  | 375  | 2030 | 133  |
| MIN   | 38    | 311   | 272   | 297   | 791    | 384   | 357   | 170   | 104  | 90   | 64   | 42   |
| CFSM  | 2.93  | .77   | .63   | .88   | 3.98   | 1.07  | .94   | 1.43  | .22  | .13  | .28  | .07  |
| IN.   | 3.38  | .86   | .73   | 1.01  | 4.15   | 1.23  | 1.04  | 1.65  | .24  | .15  | .32  | .08  |

CAL YR 1984 TOTAL 581006 MEAN 1587 MAX 19500 MIN 38 CFSM 1.61 IN 21.94  
WTR YR 1985 TOTAL 392631 MEAN 1076 MAX 19500 MIN 38 CFSM 1.09 IN 14.83



## BIG BLACK RIVER BASIN

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07290000 BIG BLACK RIVER NEAR BOVINA, MS  
(National stream-quality accounting network station)

LOCATION.--Lat 32°20'51", long 90°41'48", in NW¼SE¼ 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 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.--2,810 mi<sup>2</sup>, approximately (includes that of Clear Creek).

## WATER-DISCHARGE RECORDS

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).

GAGE.--Water-stage recorder and supplemental nonrecording gage read twice daily. Datum of gage is 84.93 ft above National Geodetic Vertical Datum of 1929 or 85.00 ft above mean Gulf 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.

AVERAGE DISCHARGE.--49 years, 3,782 ft<sup>3</sup>/s, 18.28 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 92,300 ft<sup>3</sup>/s, May. 24, 1983, gage height, 40.77 ft; minimum, 65 ft<sup>3</sup>/s, Oct. 2, 1954, gage height, 5.98 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--From information by local residents, floods at Askews 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 Askews Bridge.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 12,000 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) |
|---------|------|--------------------------------|------------------|--------|------|--------------------------------|------------------|
| Oct. 22 | 1630 | 12,200                         | 27.68            | Mar. 3 | 1000 | *16,800                        | *31.51           |
| Feb. 11 | 0830 | 13,200                         | 28.60            |        |      |                                |                  |

Minimum discharge, 176 ft<sup>3</sup>/s, Oct. 1, gage height 6.68 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT    | NOV   | DEC   | JAN   | FEB    | MAR    | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|--------|-------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|
| 1     | 175    | 6490  | 2350  | 777   | 5250   | 15600  | 3980  | 4650  | 640   | 451   | 501   | 307   |
| 2     | 174    | 7770  | 1890  | 782   | 6610   | 16700  | 5110  | 6620  | 627   | 486   | 425   | 293   |
| 3     | 172    | 8250  | 2850  | 768   | 7030   | 15900  | 5450  | 7280  | 575   | 449   | 393   | 298   |
| 4     | 172    | 8470  | 3340  | 773   | 7090   | 14600  | 5030  | 7320  | 528   | 406   | 365   | 399   |
| 5     | 173    | 7240  | 3990  | 791   | 8620   | 12900  | 3800  | 7170  | 498   | 400   | 345   | 498   |
| 6     | 180    | 3750  | 4340  | 834   | 9820   | 11400  | 3230  | 7080  | 479   | 576   | 328   | 480   |
| 7     | 229    | 2180  | 4190  | 857   | 9680   | 10100  | 3710  | 6840  | 522   | 548   | 544   | 503   |
| 8     | 271    | 1960  | 3750  | 856   | 9400   | 8630   | 3700  | 6130  | 688   | 397   | 654   | 521   |
| 9     | 267    | 1870  | 3090  | 845   | 9200   | 5070   | 2690  | 5370  | 469   | 331   | 718   | 705   |
| 10    | 388    | 1560  | 2370  | 854   | 8870   | 2530   | 1850  | 5080  | 433   | 297   | 554   | 426   |
| 11    | 569    | 1250  | 1810  | 848   | 12000  | 1880   | 1510  | 4980  | 443   | 273   | 507   | 563   |
| 12    | 565    | 1190  | 1470  | 826   | 12100  | 1640   | 1330  | 4010  | 470   | 329   | 466   | 544   |
| 13    | 511    | 1130  | 1250  | 805   | 11700  | 1480   | 1150  | 2260  | 462   | 562   | 415   | 439   |
| 14    | 569    | 963   | 1100  | 783   | 11400  | 1370   | 1020  | 1440  | 536   | 330   | 368   | 359   |
| 15    | 807    | 972   | 1000  | 774   | 11300  | 1280   | 932   | 1200  | 498   | 348   | 328   | 308   |
| 16    | 487    | 2640  | 926   | 802   | 10900  | 1210   | 909   | 1010  | 444   | 528   | 514   | 288   |
| 17    | 2450   | 2450  | 882   | 1510  | 10600  | 1140   | 1620  | 884   | 422   | 449   | 1020  | 276   |
| 18    | 1550   | 2420  | 849   | 2580  | 10500  | 1080   | 1980  | 799   | 709   | 622   | 2330  | 260   |
| 19    | 918    | 2900  | 819   | 3960  | 10300  | 1020   | 1630  | 738   | 1710  | 708   | 2740  | 248   |
| 20    | 691    | 1990  | 794   | 4300  | 9840   | 976    | 1440  | 692   | 367   | 515   | 2500  | 239   |
| 21    | 6390   | 1480  | 783   | 3680  | 9320   | 989    | 1380  | 665   | 316   | 354   | 1920  | 232   |
| 22    | 11500  | 1550  | 775   | 2800  | 8860   | 981    | 1240  | 659   | 326   | 313   | 1500  | 224   |
| 23    | 11700  | 1640  | 765   | 2410  | 8530   | 982    | 1040  | 778   | 553   | 642   | 1130  | 219   |
| 24    | 11300  | 1480  | 764   | 2340  | 12900  | 1060   | 1480  | 786   | 594   | 433   | 774   | 243   |
| 25    | 10800  | 1260  | 765   | 2070  | 13000  | 1140   | 3950  | 683   | 572   | 995   | 569   | 242   |
| 26    | 10100  | 1040  | 760   | 1570  | 13000  | 1220   | 5480  | 640   | 800   | 995   | 496   | 271   |
| 27    | 9060   | 1630  | 745   | 1220  | 13200  | 1490   | 6030  | 626   | 439   | 698   | 461   | 277   |
| 28    | 7430   | 3430  | 729   | 1200  | 13800  | 1860   | 5860  | 611   | 562   | 542   | 406   | 240   |
| 29    | 5980   | 3280  | 714   | 1310  | ---    | 1740   | 4780  | 791   | 371   | 468   | 361   | 225   |
| 30    | 5560   | 3040  | 697   | 1840  | ---    | 1700   | 3590  | 565   | 341   | 627   | 374   | 234   |
| 31    | 5870   | ---   | 686   | 3010  | ---    | 2700   | ---   | 541   | ---   | 643   | 336   | ---   |
| TOTAL | 107008 | 87275 | 51243 | 48775 | 284820 | 142368 | 86901 | 88898 | 16394 | 15715 | 24342 | 10361 |
| MEAN  | 3452   | 2909  | 1653  | 1573  | 10170  | 4593   | 2897  | 2868  | 546   | 507   | 785   | 345   |
| MAX   | 11700  | 8470  | 4340  | 4300  | 13800  | 16700  | 6030  | 7320  | 1710  | 995   | 2740  | 705   |
| MIN   | 172    | 963   | 686   | 768   | 5250   | 976    | 909   | 541   | 316   | 273   | 328   | 219   |
| CFSM  | 1.23   | 1.04  | .59   | .56   | 3.62   | 1.64   | 1.03  | 1.02  | .19   | .18   | .28   | .12   |
| IN.   | 1.42   | 1.16  | .68   | .65   | 3.77   | 1.88   | 1.15  | 1.18  | .22   | .21   | .32   | .14   |

CAL YR 1984 TOTAL 1354033 MEAN 3700 MAX 19900 MIN 172 CFSM 1.32 IN 17.93  
WTR YR 1985 TOTAL 964100 MEAN 2641 MAX 16700 MIN 172 CFSM .94 IN 12.76



## BIG BLACK RIVER BASIN

07290000 BIG BLACK RIVER NEAR BOVINA, MS--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959, 1962-63, 1972-73, 1975 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1975 to September 1981.

WATER TEMPERATURE: July 1975 to September 1981.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE      | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | TUR-<br>BID-<br>ITY<br>(NTU) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | STREP-<br>TOCOCCI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML) | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CACO3) |
|-----------|------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|------------------------------|-------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|
| OCT 09... | 1430 | 251                                             | 280                                               | 7.6                            | 22.5                        | 20                           | 7.1                                 | 82                                                             | 1400                                                           | 740                                                                | 90                                     | 0                                                      |
| DEC 06... | 1300 | 4380                                            | 104                                               | 6.8                            | 8.5                         | 75                           | 9.9                                 | 84                                                             | 640                                                            | K44                                                                | 32                                     | 5                                                      |
| FEB 25... | 1500 | 13000                                           | 70                                                | 7.1                            | 14.5                        | 80                           | 8.6                                 | 84                                                             | 3500                                                           | 6900                                                               | 21                                     | 1                                                      |
| APR 02... | 1300 | 5180                                            | 118                                               | 6.9                            | 19.0                        | 50                           | 7.7                                 | 83                                                             | 660                                                            | 200                                                                | 32                                     | 4                                                      |
| JUN 19... | 1400 | 1830                                            | 172                                               | 7.1                            | 27.0                        | 7.0                          | 5.1                                 | 64                                                             | 4100                                                           | 1700                                                               | 54                                     | 5                                                      |
| AUG 29... | 1100 | 360                                             | 105                                               | 7.5                            | 29.0                        | 33                           | 5.7                                 | 74                                                             | 5700                                                           | K2400                                                              | 33                                     | 1                                                      |

| DATE      | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LINITY<br>FIELD<br>(MG/L<br>AS<br>CACO3) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) |
|-----------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|---------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|
| OCT 09... | 20                                           | 9.8                                                  | 13                                           | 23                | .6                                      | 2.1                                                 | 93                                                | 9.0                                           | 13                                                  | .10                                                | 11                                                | 137                                                                |
| DEC 06... | 7.5                                          | 3.2                                                  | 6.3                                          | 27                | .5                                      | 3.7                                                 | 27                                                | 9.6                                           | 8.3                                                 | <.10                                               | 8.3                                               | 78                                                                 |
| FEB 25... | 5.1                                          | 2.0                                                  | 3.9                                          | 26                | .4                                      | 2.7                                                 | 20                                                | 6.2                                           | 4.5                                                 | <.10                                               | 5.3                                               | 54                                                                 |
| APR 02... | 7.6                                          | 3.1                                                  | 8.7                                          | 35                | .7                                      | 2.5                                                 | 28                                                | 10                                            | 10                                                  | .10                                                | 7.5                                               | 81                                                                 |
| JUN 19... | 13                                           | 5.2                                                  | 14                                           | 35                | .9                                      | 2.6                                                 | 49                                                | 8.8                                           | 20                                                  | .20                                                | 9.8                                               | 120                                                                |
| AUG 29... | 7.9                                          | 3.3                                                  | 6.0                                          | 26                | .5                                      | 3.2                                                 | 32                                                | 6.6                                           | 6.1                                                 | .10                                                | 9.2                                               | 75                                                                 |

| DATE      | SOLIDS,<br>SUM OF<br>CONSTITUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM |
|-----------|----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------|
| OCT 09... | 130                                                            | .19                                                 | 93                                                | <.10                                                          | .010                                                          | --                                                                  | --                                          | .050                                                 | .050                                                           | 54                                         | 94                                                            |
| DEC 06... | 64                                                             | .11                                                 | 922                                               | .18                                                           | .040                                                          | 1.2                                                                 | .350                                        | .110                                                 | .100                                                           | 126                                        | 90                                                            |
| FEB 25... | 43                                                             | .07                                                 | 1900                                              | .33                                                           | .120                                                          | 1.1                                                                 | .320                                        | .070                                                 | .060                                                           | 502                                        | 100                                                           |
| APR 02... | 66                                                             | .11                                                 | 1130                                              | .25                                                           | .080                                                          | 1.6                                                                 | .210                                        | <.010                                                | <.010                                                          | 318                                        | 91                                                            |
| JUN 19... | 100                                                            | .16                                                 | 593                                               | .25                                                           | .120                                                          | 1.3                                                                 | .120                                        | .060                                                 | .050                                                           | 153                                        | 85                                                            |
| AUG 29... | 62                                                             | .10                                                 | 73                                                | .14                                                           | .060                                                          | .50                                                                 | .160                                        | .100                                                 | .040                                                           | 50                                         | 80                                                            |

## BIG BLACK RIVER BASIN

07290000 BIG BLACK RIVER NEAR BOYINA, MS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | ALUM-<br>INUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AL) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | BERYL-<br>LIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BE) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | COBALT,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CO) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) |
|--------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|--------------------------------------------|--------------------------------------------|
| DEC<br>06... | 80                                                  | 1                                            | 39                                           | <.5                                                  | <1                                           | <1                                                  | <3                                           | 3                                            | 230                                        | 2                                          |
| FEB<br>25... | 140                                                 | <1                                           | 32                                           | <.5                                                  | <1                                           | <1                                                  | <3                                           | 3                                            | 270                                        | 2                                          |
| JUN<br>19... | 20                                                  | 5                                            | 62                                           | 1.4                                                  | <1                                           | <1                                                  | <3                                           | 3                                            | 140                                        | <1                                         |
| AUG<br>29... | 40                                                  | 2                                            | 39                                           | <.5                                                  | <1                                           | <1                                                  | <3                                           | 3                                            | 160                                        | 2                                          |

| DATE         | LITHIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS LI) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | MOLYB-<br>DENUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MO) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | SILVER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AG) | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR) | VANA-<br>DIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS V) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) |
|--------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------------|--------------------------------------------|
| DEC<br>06... | <4                                           | 55                                                   | --                                           | <10                                                   | 2                                            | <1                                                  | <1                                           | 54                                                   | <6                                                 | 9                                          |
| FEB<br>25... | 7                                            | 99                                                   | .4                                           | <10                                                   | 2                                            | <1                                                  | 1                                            | 39                                                   | <6                                                 | 46                                         |
| JUN<br>19... | 12                                           | 230                                                  | .1                                           | <10                                                   | 1                                            | <1                                                  | <1                                           | 100                                                  | <6                                                 | 14                                         |
| AUG<br>29... | 4                                            | 48                                                   | .5                                           | <10                                                   | 2                                            | <1                                                  | <1                                           | 63                                                   | <6                                                 | 12                                         |

## BAYOU PIERRE BASIN

07290650 BAYOU PIERRE NEAR WILLOWS, MS

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 right bank at downstream side of bridge on county highway, 1.4 mi upstream from South Fork Bayou Pierre, and 1.7 mi southeast of Willows.

DRAINAGE AREA.--653 mi<sup>2</sup>.

PERIOD OF RECORD.--Annual maximums, water years 1959-61. June 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 82.34 ft above National Geodetic Vertical Datum of 1929. Sept. 9, 1958, to May 31, 1961, crest-stage gage at same site and datum.

REMARKS.--Estimated daily discharges: Apr. 2-15, 18-26, May 4-23, Aug. 21-24, Aug. 27 to Sept. 3, 13-23. Records good prior to Apr. 4 and poor thereafter.

AVERAGE DISCHARGE.--24 years, 919 ft<sup>3</sup>/s, 19.11 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 88,000 ft<sup>3</sup>/s, Apr. 7, 1983, gage height, 29.36 ft; minimum discharge, 19 ft<sup>3</sup>/s, Oct. 6, 1969; minimum gage height, 2.17 ft, Nov. 4, 5, 6, 1971.

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) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Oct. 22 | 0300 | 21,700                            | 23.09               | Feb. 24 | 2030 | *31,000                           | *25.43              |
| Feb. 11 | 1400 | 16,900                            | 20.37               |         |      |                                   |                     |

Minimum daily discharge, 44 ft/s, Oct. 1, 4, 5, 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB    | MAR   | APR   | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|-------|-------|-------|-------|--------|-------|-------|------|------|------|------|------|
| 1     | 44    | 115   | 491   | 364   | 4740   | 4590  | 1940  | 311  | 94   | 97   | 61   | 76   |
| 2     | 45    | 860   | 1400  | 797   | 2890   | 4170  | 690   | 508  | 92   | 92   | 69   | 72   |
| 3     | 45    | 515   | 3000  | 501   | 1270   | 2850  | 595   | 398  | 91   | 81   | 90   | 70   |
| 4     | 45    | 261   | 964   | 399   | 806    | 1380  | 444   | 280  | 89   | 75   | 93   | 165  |
| 5     | 44    | 169   | 2080  | 364   | 9130   | 1000  | 375   | 260  | 89   | 71   | 90   | 135  |
| 6     | 44    | 130   | 1690  | 302   | 4780   | 821   | 430   | 230  | 88   | 64   | 83   | 130  |
| 7     | 44    | 110   | 835   | 256   | 2790   | 685   | 403   | 210  | 133  | 59   | 76   | 177  |
| 8     | 48    | 101   | 544   | 229   | 1190   | 624   | 350   | 190  | 130  | 57   | 1280 | 222  |
| 9     | 50    | 95    | 443   | 207   | 817    | 587   | 260   | 170  | 94   | 55   | 832  | 330  |
| 10    | 160   | 95    | 395   | 201   | 671    | 547   | 240   | 160  | 93   | 64   | 356  | 289  |
| 11    | 174   | 95    | 349   | 207   | 11100  | 510   | 230   | 150  | 99   | 92   | 135  | 174  |
| 12    | 141   | 95    | 308   | 199   | 4830   | 479   | 220   | 146  | 94   | 89   | 97   | 124  |
| 13    | 113   | 95    | 286   | 176   | 2510   | 453   | 220   | 140  | 87   | 92   | 94   | 110  |
| 14    | 166   | 92    | 267   | 163   | 1100   | 429   | 215   | 138  | 81   | 335  | 90   | 100  |
| 15    | 383   | 92    | 248   | 157   | 777    | 407   | 290   | 300  | 79   | 136  | 106  | 90   |
| 16    | 143   | 6040  | 237   | 167   | 624    | 386   | 356   | 220  | 77   | 82   | 91   | 84   |
| 17    | 949   | 2610  | 226   | 1000  | 534    | 368   | 307   | 170  | 74   | 80   | 456  | 76   |
| 18    | 529   | 849   | 210   | 1050  | 469    | 349   | 240   | 150  | 1540 | 111  | 2870 | 70   |
| 19    | 283   | 454   | 202   | 522   | 427    | 332   | 225   | 130  | 2520 | 91   | 571  | 66   |
| 20    | 160   | 382   | 200   | 341   | 398    | 320   | 220   | 125  | 414  | 75   | 229  | 64   |
| 21    | 15400 | 270   | 191   | 255   | 373    | 918   | 215   | 115  | 203  | 62   | 130  | 62   |
| 22    | 17800 | 198   | 185   | 221   | 358    | 1870  | 210   | 110  | 131  | 55   | 120  | 60   |
| 23    | 6820  | 163   | 176   | 211   | 812    | 843   | 205   | 100  | 113  | 158  | 100  | 58   |
| 24    | 2080  | 147   | 172   | 211   | 22000  | 596   | 200   | 137  | 112  | 362  | 85   | 121  |
| 25    | 668   | 139   | 165   | 218   | 13300  | 494   | 200   | 109  | 113  | 149  | 119  | 118  |
| 26    | 364   | 134   | 159   | 209   | 7140   | 395   | 250   | 106  | 336  | 253  | 216  | 1950 |
| 27    | 255   | 8030  | 153   | 444   | 3970   | 346   | 374   | 104  | 177  | 114  | 140  | 554  |
| 28    | 197   | 5370  | 150   | 2980  | 1960   | 521   | 874   | 102  | 253  | 87   | 115  | 221  |
| 29    | 161   | 2550  | 147   | 1610  | ---    | 587   | 562   | 100  | 244  | 76   | 100  | 140  |
| 30    | 137   | 864   | 176   | 1120  | ---    | 515   | 433   | 96   | 107  | 69   | 90   | 185  |
| 31    | 120   | ---   | 193   | 4810  | ---    | 3220  | ---   | 95   | ---  | 66   | 80   | ---  |
| TOTAL | 47612 | 31120 | 16242 | 19891 | 101766 | 31592 | 11773 | 5560 | 7847 | 3349 | 9064 | 6093 |
| MEAN  | 1536  | 1037  | 524   | 642   | 3635   | 1019  | 392   | 179  | 262  | 108  | 292  | 203  |
| MAX   | 17800 | 8030  | 3000  | 4810  | 22000  | 4590  | 1940  | 508  | 2520 | 362  | 2870 | 1950 |
| MIN   | 44    | 92    | 147   | 157   | 358    | 320   | 200   | 95   | 74   | 55   | 61   | 58   |
| CFSM  | 2.35  | 1.59  | .80   | .98   | 5.57   | 1.56  | .60   | .27  | .40  | .17  | .45  | .31  |
| IN.   | 2.71  | 1.77  | .93   | 1.13  | 5.80   | 1.80  | .67   | .32  | .45  | .19  | .52  | .35  |

|             |       |        |      |     |     |       |     |    |      |      |    |       |
|-------------|-------|--------|------|-----|-----|-------|-----|----|------|------|----|-------|
| CAL YR 1984 | TOTAL | 316572 | MEAN | 865 | MAX | 30200 | MIN | 44 | CFSM | 1.33 | IN | 18.03 |
| WTR YR 1985 | TOTAL | 291909 | MEAN | 800 | MAX | 22000 | MIN | 44 | CFSM | 1.23 | IN | 16.63 |

## HOMOCHITTO RIVER BASIN

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07291000 HOMOCHITTO RIVER AT EDDICETON, MS

LOCATION.--Lat 31°30'10", long 90°46'35", in SE¼NE¼ sec.11, T.6 N., R.4 E., Washington Meridian, Franklin County, Hydrologic Unit 08060205, on left bank at upstream side of Illinois Central 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.--180 mi<sup>2</sup>, approximately.

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

REVISED RECORDS.--WSP 1281: 1939-40, 1942-44, 1949-50.

GAGE.--Water-stage recorder. Datum of gage is 212.22 ft above National Geodetic Vertical Datum of 1929. Prior to May 18, 1984, at datum 5.0 ft lower. Prior to May 26, 1942, nonrecording gage at site 900 ft upstream at present datum.

REMARKS.--Estimated discharges Jan. 27 to Mar. 4, June 9 to July 1. Records fair.

AVERAGE DISCHARGE.--47 years, 266 ft<sup>3</sup>/s, 20.07 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,400 ft<sup>3</sup>/s, Apr. 13, 1974, gage height, 19.53 ft; minimum discharge, 26 ft<sup>3</sup>/s, Sept. 10, 1952 (temporary regulation); minimum unregulated, 28 ft<sup>3</sup>/s, Sept. 2, 4, 1954, Sept. 29, 1956.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 9,000 ft<sup>3</sup>/s and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date                                      | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|---------|------|-----------------------------------|---------------------|-------------------------------------------|------|-----------------------------------|---------------------|
| Oct. 21 | 1545 | *23,600                           | *18.58              | No other peak greater than base discharge |      |                                   |                     |

Minimum discharge, 32 ft<sup>3</sup>/s, Sept. 19, gage height, 4.95.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT   | NOV  | DEC  | JAN  | FEB   | MAR   | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|-------|------|------|------|-------|-------|------|------|------|------|------|------|
| 1     | 42    | 131  | 168  | 397  | 160   | 420   | 293  | 72   | 43   | 52   | 48   | 37   |
| 2     | 43    | 294  | 409  | 184  | 720   | 400   | 187  | 79   | 43   | 50   | 50   | 40   |
| 3     | 44    | 154  | 385  | 122  | 250   | 2800  | 158  | 72   | 44   | 49   | 52   | 57   |
| 4     | 45    | 114  | 408  | 128  | 150   | 1000  | 141  | 66   | 43   | 52   | 51   | 67   |
| 5     | 46    | 100  | 908  | 109  | 170   | 276   | 135  | 63   | 43   | 51   | 48   | 51   |
| 6     | 48    | 91   | 378  | 103  | 500   | 244   | 139  | 61   | 44   | 50   | 48   | 94   |
| 7     | 50    | 87   | 231  | 94   | 2600  | 222   | 119  | 59   | 48   | 49   | 123  | 87   |
| 8     | 138   | 84   | 188  | 87   | 300   | 206   | 107  | 57   | 65   | 48   | 93   | 96   |
| 9     | 109   | 81   | 167  | 84   | 160   | 191   | 101  | 55   | 210  | 47   | 71   | 444  |
| 10    | 159   | 77   | 152  | 85   | 120   | 177   | 98   | 55   | 60   | 51   | 62   | 97   |
| 11    | 167   | 73   | 140  | 84   | 150   | 167   | 95   | 54   | 45   | 61   | 55   | 59   |
| 12    | 84    | 71   | 132  | 80   | 800   | 156   | 99   | 52   | 56   | 138  | 50   | 46   |
| 13    | 72    | 68   | 126  | 78   | 2600  | 146   | 104  | 51   | 48   | 60   | 49   | 41   |
| 14    | 75    | 68   | 119  | 79   | 1000  | 138   | 107  | 60   | 49   | 50   | 51   | 39   |
| 15    | 231   | 65   | 111  | 76   | 200   | 129   | 112  | 100  | 45   | 50   | 63   | 38   |
| 16    | 101   | 632  | 111  | 97   | 130   | 125   | 94   | 58   | 44   | 71   | 110  | 37   |
| 17    | 562   | 236  | 110  | 526  | 120   | 121   | 81   | 51   | 42   | 77   | 84   | 36   |
| 18    | 227   | 118  | 107  | 181  | 100   | 114   | 76   | 49   | 190  | 62   | 63   | 35   |
| 19    | 134   | 132  | 102  | 112  | 92    | 109   | 74   | 47   | 100  | 54   | 55   | 34   |
| 20    | 116   | 107  | 99   | 92   | 88    | 151   | 72   | 45   | 62   | 53   | 61   | 35   |
| 21    | 11000 | 83   | 101  | 77   | 82    | 483   | 70   | 58   | 58   | 50   | 71   | 35   |
| 22    | 2340  | 72   | 100  | 74   | 76    | 281   | 68   | 91   | 52   | 49   | 53   | 35   |
| 23    | 2090  | 68   | 94   | 77   | 72    | 159   | 67   | 58   | 48   | 51   | 42   | 42   |
| 24    | 408   | 65   | 94   | 90   | 70    | 135   | 82   | 52   | 44   | 72   | 42   | 41   |
| 25    | 275   | 66   | 89   | 90   | 500   | 118   | 73   | 49   | 170  | 85   | 50   | 38   |
| 26    | 227   | 64   | 87   | 83   | 2000  | 112   | 94   | 47   | 54   | 70   | 47   | 327  |
| 27    | 183   | 2310 | 88   | 150  | 5600  | 170   | 259  | 46   | 50   | 59   | 43   | 95   |
| 28    | 156   | 634  | 87   | 350  | 1500  | 266   | 130  | 45   | 140  | 55   | 45   | 53   |
| 29    | 140   | 271  | 87   | 420  | ---   | 150   | 88   | 46   | 60   | 51   | 40   | 46   |
| 30    | 126   | 206  | 87   | 180  | ---   | 136   | 77   | 46   | 54   | 50   | 39   | 346  |
| 31    | 117   | ---  | 98   | 130  | ---   | 724   | ---  | 45   | ---  | 49   | 39   | ---  |
| TOTAL | 19555 | 6622 | 5563 | 4519 | 20310 | 10026 | 3400 | 1789 | 2054 | 1816 | 1798 | 2528 |
| MEAN  | 631   | 221  | 179  | 146  | 725   | 323   | 113  | 57.7 | 68.5 | 58.6 | 58.0 | 84.3 |
| MAX   | 11000 | 2310 | 908  | 526  | 5600  | 2800  | 293  | 100  | 210  | 138  | 123  | 444  |
| MIN   | 42    | 64   | 87   | 74   | 70    | 109   | 67   | 45   | 42   | 47   | 39   | 34   |
| CFSM  | 3.51  | 1.23 | .99  | .81  | 4.03  | 1.79  | .63  | .32  | .38  | .33  | .32  | .47  |
| IN.   | 4.04  | 1.37 | 1.15 | .93  | 4.20  | 2.07  | .70  | .37  | .42  | .38  | .37  | .52  |

|             |       |       |      |     |     |       |     |    |      |      |    |       |
|-------------|-------|-------|------|-----|-----|-------|-----|----|------|------|----|-------|
| CAL YR 1984 | TOTAL | 97036 | MEAN | 265 | MAX | 14200 | MIN | 42 | CFSM | 1.47 | IN | 20.05 |
| WTR YR 1985 | TOTAL | 79980 | MEAN | 219 | MAX | 11000 | MIN | 34 | CFSM | 1.22 | IN | 16.53 |

## HOMOCHITTO RIVER BASIN

07292500 HOMOCHITTO RIVER AT ROSETTA, MS  
(National stream-quality accounting network station)

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.--750 mi<sup>2</sup>, approximately.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June to November 1906 (gage heights and discharge measurements only), October 1951 to current year. February 1949 to September 1951 (gage heights and discharge measurements only) in reports of U. S. Corps of Engineers, Vicksburg district.

REVISED RECORDS.--WSP 1731: 1955(M). WSP 1920: 1955.

GAGE.--Water-stage recorder. Datum of gage is 94.39 ft above National Geodetic Vertical Datum of 1929. 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 Railroad bridge, 800 ft upstream and nonrecording gage read twice daily at present site, all at same datum.

REMARKS.--Estimated daily discharges: Feb. 1 to Mar. 29, Apr. 3-24, July 28 to Aug. 12 and Sept. 12-30. Records fair.

AVERAGE DISCHARGE.--34 years, 1,124 ft<sup>3</sup>/s, 20.35 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 150,000 ft<sup>3</sup>/s, Apr. 13, 1974, from rating curve extended above 47,000 ft<sup>3</sup>/s; maximum gage height, 36.03 ft, May 4, 1953; minimum discharge, 129 ft<sup>3</sup>/s, Sept. 22-25, 28-30, 1956.

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<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) | Date    | Time    | Discharge<br>(ft <sup>3</sup> /s) | Gage Height<br>(ft) |
|---------|------|-----------------------------------|---------------------|---------|---------|-----------------------------------|---------------------|
| Oct. 21 | 1615 | *84,700                           | *21.25              | Feb. 27 | unknown | 26,000                            | unknown             |
| Oct. 23 | 0430 | 65,100                            | 20.14               |         |         |                                   |                     |

Minimum daily discharge, 199 ft<sup>3</sup>/s, June 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY               | OCT    | NOV   | DEC   | JAN       | FEB       | MAR     | APR       | MAY      | JUN   | JUL   | AUG   | SEP   |
|-------------------|--------|-------|-------|-----------|-----------|---------|-----------|----------|-------|-------|-------|-------|
| 1                 | 351    | 403   | 427   | 1430      | 2630      | 3000    | 1980      | 501      | 230   | 419   | 315   | 325   |
| 2                 | 345    | 1370  | 342   | 1520      | 3600      | 1900    | 496       | 459      | 225   | 341   | 320   | 454   |
| 3                 | 340    | 1050  | 1270  | 723       | 1500      | 10300   | 819       | 408      | 217   | 252   | 330   | 678   |
| 4                 | 335    | 555   | 950   | 639       | 1080      | 4000    | 725       | 376      | 215   | 248   | 340   | 684   |
| 5                 | 337    | 439   | 3480  | 512       | 980       | 1900    | 700       | 355      | 215   | 250   | 330   | 522   |
| 6                 | 339    | 356   | 1780  | 326       | 10300     | 1370    | 730       | 336      | 209   | 254   | 310   | 479   |
| 7                 | 355    | 294   | 1060  | 406       | 4500      | 1100    | 630       | 312      | 213   | 254   | 800   | 577   |
| 8                 | 677    | 271   | 774   | 563       | 1400      | 900     | 570       | 290      | 296   | 254   | 600   | 628   |
| 9                 | 1000   | 270   | 685   | 534       | 1070      | 760     | 530       | 277      | 298   | 254   | 500   | 2730  |
| 10                | 1110   | 280   | 745   | 513       | 950       | 670     | 510       | 266      | 247   | 254   | 430   | 2840  |
| 11                | 2700   | 281   | 711   | 506       | 910       | 600     | 500       | 256      | 234   | 279   | 370   | 836   |
| 12                | 1100   | 259   | 661   | 479       | 10400     | 540     | 520       | 248      | 233   | 404   | 340   | 556   |
| 13                | 709    | 268   | 626   | 462       | 3250      | 510     | 540       | 248      | 251   | 409   | 311   | 435   |
| 14                | 708    | 298   | 571   | 466       | 1500      | 490     | 560       | 269      | 236   | 302   | 324   | 400   |
| 15                | 2980   | 301   | 534   | 462       | 1100      | 500     | 590       | 642      | 231   | 276   | 429   | 370   |
| 16                | 1280   | 1440  | 513   | 432       | 900       | 500     | 520       | 405      | 233   | 342   | 783   | 350   |
| 17                | 4410   | 2320  | 511   | 2140      | 720       | 480     | 470       | 298      | 252   | 871   | 880   | 340   |
| 18                | 2670   | 691   | 495   | 1410      | 640       | 460     | 440       | 267      | 299   | 519   | 445   | 320   |
| 19                | 1240   | 754   | 482   | 819       | 570       | 440     | 420       | 250      | 742   | 442   | 364   | 310   |
| 20                | 1170   | 645   | 463   | 655       | 520       | 445     | 410       | 248      | 494   | 506   | 406   | 300   |
| 21                | 31400  | 476   | 467   | 538       | 480       | 3000    | 400       | 269      | 350   | 406   | 740   | 320   |
| 22                | 14200  | 427   | 459   | 506       | 465       | 4000    | 395       | 485      | 326   | 386   | 389   | 310   |
| 23                | 29500  | 364   | 417   | 543       | 445       | 900     | 387       | 394      | 319   | 396   | 321   | 305   |
| 24                | 6590   | 319   | 423   | 591       | 430       | 680     | 385       | 326      | 319   | 518   | 301   | 380   |
| 25                | 3330   | 312   | 410   | 681       | 420       | 580     | 378       | 278      | 493   | 659   | 498   | 370   |
| 26                | 2020   | 319   | 385   | 629       | 10500     | 530     | 1500      | 258      | 1020  | 626   | 519   | 1900  |
| 27                | 1410   | 5920  | 380   | 934       | 26000     | 500     | 5770      | 247      | 489   | 530   | 368   | 2100  |
| 28                | 1050   | 3680  | 395   | 4030      | 5000      | 550     | 1540      | 238      | 436   | 529   | 368   | 900   |
| 29                | 802    | 1300  | 399   | 1910      | ---       | 725     | 855       | 241      | 456   | 380   | 347   | 560   |
| 30                | 608    | 727   | 396   | 1430      | ---       | 698     | 735       | 243      | 424   | 340   | 358   | 420   |
| 31                | 488    | ---   | 424   | 1280      | ---       | 2190    | ---       | 236      | ---   | 325   | 342   | ---   |
| TOTAL             | 115554 | 26389 | 21635 | 28069     | 92260     | 45218   | 25005     | 9926     | 10202 | 12225 | 13478 | 21699 |
| MEAN              | 3728   | 880   | 698   | 905       | 3295      | 1459    | 834       | 320      | 340   | 394   | 435   | 723   |
| MAX               | 31400  | 5920  | 3480  | 4030      | 26000     | 10300   | 5770      | 642      | 1020  | 871   | 880   | 2840  |
| MIN               | 335    | 259   | 342   | 326       | 420       | 440     | 378       | 236      | 209   | 248   | 301   | 300   |
| CFSM              | 4.97   | 1.17  | .93   | 1.21      | 4.39      | 1.95    | 1.11      | .43      | .45   | .53   | .58   | .96   |
| IN.               | 5.73   | 1.31  | 1.07  | 1.39      | 4.58      | 2.24    | 1.24      | .49      | .51   | .61   | .67   | 1.08  |
| CAL YR 1984 TOTAL | 427577 |       |       | MEAN 1168 | MAX 31400 | MIN 241 | CFSM 1.56 | IN 21.21 |       |       |       |       |
| WTR YR 1985 TOTAL | 421660 |       |       | MEAN 1155 | MAX 31400 | MIN 209 | CFSM 1.54 | IN 20.91 |       |       |       |       |



## HOMOCHITTO RIVER BASIN

07292500 HOMOCHITTO RIVER AT ROSETTA, MS--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1958-59, 1967-68, 1970-71, 1975 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1975 to September 1981.

WATER TEMPERATURE: January 1975 to September 1981.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | TUR-<br>BID-<br>ITY<br>(NTU) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | STREP-<br>TOCOCCI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML) | HARD-<br>NESS<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CAC03) |
|--------------|------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|------------------------------|-------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------|
| OCT<br>04... | 1230 | 340                                             | 95                                                | 7.2                            | 21.0                        | 4.5                          | 8.3                                 | 93                                                             | 230                                                            | K46                                                                | 14                                     | 0                                                      |
| JAN<br>15... | 1330 | 670                                             | 94                                                | 6.7                            | 9.0                         | 5.5                          | 10.0                                | 86                                                             | K62                                                            | K19                                                                | 15                                     | 3                                                      |
| APR<br>09... | 1300 | 789                                             | 82                                                | 6.9                            | 21.0                        | 6.0                          | 9.7                                 | 108                                                            | 150                                                            | K30                                                                | 15                                     | 2                                                      |
| AUG<br>06... | 1130 | 10700                                           | 84                                                | 6.8                            | 30.5                        | 10                           | 6.0                                 | 80                                                             | 160                                                            | K38                                                                | 14                                     | 1                                                      |

| DATE         | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LINITY<br>FIELD<br>(MG/L<br>AS<br>CAC03) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) |
|--------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|---------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|
| OCT<br>04... | 3.3                                          | 1.3                                                  | 11                                           | 61                | 1                                       | 1.1                                                 | 14                                                | 1.8                                           | 18                                                  | <.10                                               | 14                                                | 59                                                                 |
| JAN<br>15... | 3.5                                          | 1.4                                                  | 10                                           | 58                | 1                                       | 1.0                                                 | 12                                                | 2.9                                           | 16                                                  | <.10                                               | 14                                                | 57                                                                 |
| APR<br>09... | 3.6                                          | 1.4                                                  | 8.9                                          | 55                | 1                                       | 1.1                                                 | 13                                                | 3.5                                           | 14                                                  | <.10                                               | 13                                                | 60                                                                 |
| AUG<br>06... | 3.6                                          | 1.3                                                  | 9.1                                          | 55                | 1                                       | 1.4                                                 | 13                                                | 8.1                                           | 12                                                  | .10                                                | 13                                                | 60                                                                 |

| DATE         | SOLIDS,<br>SUM OF<br>CONSTITUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM |
|--------------|----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------|
| OCT<br>04... | 59                                                             | .08                                                 | 54                                                | <.10                                                          | .030                                                          | .10                                                                 | <.010                                       | <.010                                                | <.010                                                          | 8                                          | 76                                                            |
| JAN<br>15... | 57                                                             | .08                                                 | 103                                               | <.10                                                          | .060                                                          | .70                                                                 | <.010                                       | <.010                                                | .010                                                           | 332                                        | 5                                                             |
| APR<br>09... | 54                                                             | .08                                                 | 128                                               | <.10                                                          | .040                                                          | <.10                                                                | .020                                        | <.010                                                | <.010                                                          | 19                                         | 51                                                            |
| AUG<br>06... | 57                                                             | .08                                                 | 1730                                              | <.10                                                          | .010                                                          | .70                                                                 | <.010                                       | <.010                                                | <.010                                                          | 165                                        | 22                                                            |

## HOMOCHITTO RIVER BASIN

07292500 HOMOCHITTO RIVER AT ROSETTA, MS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE         | ALUM-<br>INUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AL) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | BERYL-<br>LIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BE) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | COBALT,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CO) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) |
|--------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|--------------------------------------------|--------------------------------------------|
| OCT<br>04... | --                                                  | --                                           | 17                                           | <.0                                                  | <1                                           | --                                                  | <3                                           | --                                           | 110                                        | --                                         |
| JAN<br>15... | 20                                                  | <1                                           | 43                                           | <.5                                                  | 1                                            | 1                                                   | <3                                           | <1                                           | 260                                        | 2                                          |
| APR<br>09... | 20                                                  | <1                                           | 39                                           | 1.6                                                  | <1                                           | <1                                                  | 3                                            | 5                                            | 210                                        | 4                                          |
| AUG<br>06... | <10                                                 | <1                                           | 27                                           | <.5                                                  | <1                                           | 2                                                   | <3                                           | 10                                           | 70                                         | 3                                          |

| DATE         | LITHIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS LI) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | MOLYB-<br>DENUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MO) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | SILVER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AG) | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR) | VANA-<br>DIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS V) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) |
|--------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------------|--------------------------------------------|
| OCT<br>04... | 6                                            | 88                                                   | --                                           | <10                                                   | --                                           | --                                                  | --                                           | 51                                                   | <6                                                 | <3                                         |
| JAN<br>15... | <4                                           | 320                                                  | .3                                           | <10                                                   | 1                                            | <1                                                  | <1                                           | 49                                                   | <6                                                 | 12                                         |
| APR<br>09... | 9                                            | 130                                                  | .2                                           | <10                                                   | <1                                           | <1                                                  | <1                                           | 46                                                   | <6                                                 | 11                                         |
| AUG<br>06... | <4                                           | 100                                                  | .3                                           | <10                                                   | 4                                            | <1                                                  | <1                                           | 45                                                   | <6                                                 | 8                                          |

## BUFFALO RIVER BASIN

185

07295000 BUFFALO RIVER NEAR WOODVILLE, MS

LOCATION.--Lat 31°13'35", long 91°17'45", in SW¼ sec.21, T.3 N., R.2 W., Washington Meridian, Wilkinson County, Hydrologic Unit 08060206, near center of span on downstream side of bridge on U.S. Highway 61, 1.5 mi downstream from Fords Creek, 2.8 mi west of Wilkinson, and 8.5 mi north of Woodville.

DRAINAGE AREA.--182 mi<sup>2</sup>.

PERIOD OF RECORD.--March 1942 to current year. Prior to October 1950, published as Buffalo Bayou near Woodville.

REVISED RECORDS.--WSP 1281: 1943, 1946(M).

GAGE.--Water-stage recorder. Datum of gage is 94.52 ft above National Geodetic Vertical Datum of 1929. Prior to June 1, 1942, nonrecording gage at same site. Prior to Oct. 1, 1964, at datum 3.00 ft higher.

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--43 years, 275 ft<sup>3</sup>/s, 20.52 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 65,000 ft<sup>3</sup>/s, Mar. 25, 1973, gage height, 22.3 ft from floodmark, from rating curve extended above 35,000 ft<sup>3</sup>/s; minimum, 16 ft<sup>3</sup>/s, Aug. 14, 18, and 19, 1954, Sept. 28, 1956.

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) |
|---------|------|-----------------------------------|---------------------|---------|------|-----------------------------------|---------------------|
| Oct. 23 | 0030 | 12,800                            | 12.84               | Apr. 27 | 0215 | 11,100                            | 12.95               |
| Feb. 25 | 1200 | *18,100                           | *14.86              |         |      |                                   |                     |

Minimum daily discharge, 32 ft<sup>3</sup>/s, Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY         | OCT   | NOV    | DEC      | JAN      | FEB    | MAR       | APR      | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------------|-------|--------|----------|----------|--------|-----------|----------|------|------|------|------|------|
| 1           | 52    | 145    | 91       | 370      | 706    | 3130      | 211      | 148  | 48   | 45   | 36   | 32   |
| 2           | 58    | 207    | 76       | 143      | 274    | 849       | 149      | 128  | 47   | 43   | 34   | 55   |
| 3           | 65    | 150    | 67       | 116      | 188    | 473       | 129      | 113  | 46   | 42   | 34   | 359  |
| 4           | 71    | 124    | 745      | 124      | 210    | 360       | 121      | 104  | 45   | 41   | 61   | 122  |
| 5           | 77    | 112    | 974      | 106      | 2670   | 297       | 120      | 94   | 44   | 41   | 39   | 75   |
| 6           | 84    | 99     | 488      | 100      | 530    | 236       | 125      | 88   | 44   | 41   | 35   | 127  |
| 7           | 93    | 91     | 183      | 92       | 257    | 205       | 120      | 81   | 76   | 39   | 75   | 429  |
| 8           | 200   | 86     | 135      | 88       | 185    | 182       | 120      | 76   | 181  | 39   | 77   | 725  |
| 9           | 321   | 82     | 114      | 83       | 155    | 166       | 120      | 73   | 58   | 38   | 45   | 222  |
| 10          | 532   | 78     | 118      | 83       | 142    | 151       | 121      | 72   | 48   | 38   | 38   | 545  |
| 11          | 297   | 72     | 118      | 81       | 2800   | 139       | 120      | 69   | 46   | 37   | 45   | 108  |
| 12          | 193   | 66     | 112      | 78       | 499    | 134       | 129      | 67   | 48   | 39   | 72   | 74   |
| 13          | 177   | 61     | 107      | 78       | 264    | 135       | 138      | 65   | 46   | 46   | 39   | 61   |
| 14          | 1670  | 59     | 101      | 79       | 203    | 130       | 129      | 94   | 42   | 39   | 42   | 55   |
| 15          | 1260  | 57     | 95       | 77       | 163    | 130       | 127      | 189  | 41   | 39   | 72   | 51   |
| 16          | 317   | 167    | 91       | 137      | 135    | 129       | 124      | 77   | 41   | 55   | 204  | 47   |
| 17          | 2520  | 114    | 89       | 754      | 122    | 125       | 121      | 65   | 40   | 60   | 71   | 45   |
| 18          | 553   | 70     | 85       | 202      | 111    | 117       | 120      | 62   | 75   | 63   | 47   | 43   |
| 19          | 316   | 106    | 81       | 140      | 104    | 117       | 121      | 60   | 171  | 48   | 43   | 41   |
| 20          | 277   | 62     | 81       | 119      | 98     | 831       | 121      | 58   | 63   | 51   | 49   | 40   |
| 21          | 2860  | 47     | 80       | 110      | 91     | 1020      | 120      | 76   | 50   | 43   | 89   | 38   |
| 22          | 2370  | 42     | 77       | 108      | 86     | 270       | 117      | 130  | 46   | 44   | 47   | 39   |
| 23          | 5280  | 38     | 76       | 107      | 90     | 184       | 118      | 74   | 43   | 80   | 41   | 63   |
| 24          | 1050  | 37     | 79       | 113      | 3760   | 155       | 123      | 73   | 42   | 54   | 39   | 218  |
| 25          | 533   | 35     | 77       | 118      | 6370   | 137       | 121      | 60   | 44   | 40   | 41   | 66   |
| 26          | 353   | 34     | 76       | 109      | 1220   | 121       | 2970     | 57   | 150  | 37   | 42   | 92   |
| 27          | 279   | 1490   | 75       | 195      | 840    | 171       | 3760     | 55   | 53   | 35   | 36   | 55   |
| 28          | 233   | 389    | 72       | 403      | 466    | 180       | 448      | 53   | 106  | 36   | 33   | 42   |
| 29          | 199   | 165    | 71       | 172      | ---    | 127       | 244      | 51   | 63   | 34   | 33   | 39   |
| 30          | 177   | 118    | 70       | 148      | ---    | 123       | 200      | 50   | 47   | 34   | 38   | 2050 |
| 31          | 159   | ---    | 79       | 226      | ---    | 575       | ---      | 49   | ---  | 45   | 34   | ---  |
| TOTAL       | 22626 | 4403   | 4783     | 4859     | 22739  | 11099     | 10807    | 2511 | 1894 | 1366 | 1631 | 5958 |
| MEAN        | 730   | 147    | 154      | 157      | 812    | 358       | 360      | 81.0 | 63.1 | 44.1 | 52.6 | 199  |
| MAX         | 5280  | 1490   | 974      | 754      | 6370   | 3130      | 3760     | 189  | 181  | 80   | 204  | 2050 |
| MIN         | 52    | 34     | 67       | 77       | 86     | 117       | 117      | 49   | 40   | 34   | 33   | 32   |
| CFSM        | 4.01  | .81    | .85      | .86      | 4.46   | 1.97      | 1.98     | .45  | .35  | .24  | .29  | 1.09 |
| IN.         | 4.62  | .90    | .98      | .99      | 4.65   | 2.27      | 2.21     | .51  | .39  | .28  | .33  | 1.22 |
| CAL YR 1984 | TOTAL | 100151 | MEAN 274 | MAX 8180 | MIN 27 | CFSM 1.51 | IN 20.47 |      |      |      |      |      |
| WTR YR 1985 | TOTAL | 94676  | MEAN 259 | MAX 6370 | MIN 32 | CFSM 1.42 | IN 19.35 |      |      |      |      |      |

## MISSISSIPPI RIVER DELTA

07377000 AMITE RIVER NEAR DARLINGTON, LA

LOCATION.--Lat 30°53'20", long 90°50'40", in lot 72, T.2 S., R.4 E., St. Helena Meridian, St. Helena Parish, Hydrologic Unit 08070202 near center of span on downstream side of bridge on State Highway 10, 1.5 mi upstream from Collins Creek, and 4.0 mi west of Darlington.

DRAINAGE AREA.--580 mi<sup>2</sup>.

PERIOD OF RECORD.--March 1949 to September 1950 (annual maximum), October 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 145.81 ft above National Geodetic Vertical Datum of 1929. 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, datum 2.99 ft higher.

AVERAGE DISCHARGE.--35 years, 917 ft<sup>3</sup>/s, 21.47 in/yr.

REMARKS.--Estimated daily discharges: Nov. 16 to Dec. 2 and Feb. 16-18. Records good, except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 76,400 ft<sup>3</sup>/s, Apr. 22, 1977, gage height, 21.76 ft; minimum, 188 ft<sup>3</sup>/s, Oct. 18, 1956.

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) |
|---------|------|-----------------------------------|---------------------|---------------------------------------------|------|-----------------------------------|---------------------|
| Feb. 27 | 0500 | *8,970                            | *12.73              | No other peaks greater than base discharge. |      |                                   |                     |

Minimum daily discharge, 230 ft<sup>3</sup>/s, Nov. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
MEAN VALUES

| DAY   | OCT   | NOV  | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN  | JUL   | AUG   | SEP   |
|-------|-------|------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| 1     | 248   | 426  | 580   | 1290  | 2660  | 2930  | 1330  | 771   | 281  | 267   | 285   | 261   |
| 2     | 244   | 428  | 410   | 806   | 1230  | 6260  | 881   | 591   | 279  | 265   | 295   | 276   |
| 3     | 240   | 430  | 352   | 658   | 3370  | 5450  | 646   | 503   | 278  | 263   | 270   | 755   |
| 4     | 238   | 389  | 486   | 567   | 5520  | 2480  | 551   | 454   | 277  | 267   | 279   | 606   |
| 5     | 240   | 365  | 2130  | 504   | 5210  | 1420  | 511   | 422   | 275  | 270   | 297   | 409   |
| 6     | 242   | 344  | 2420  | 460   | 4210  | 1110  | 479   | 396   | 273  | 267   | 277   | 361   |
| 7     | 242   | 328  | 1560  | 424   | 2870  | 924   | 461   | 378   | 273  | 262   | 267   | 809   |
| 8     | 246   | 318  | 930   | 400   | 1590  | 808   | 477   | 363   | 274  | 260   | 289   | 759   |
| 9     | 265   | 314  | 677   | 381   | 1040  | 728   | 424   | 348   | 274  | 259   | 442   | 799   |
| 10    | 444   | 311  | 570   | 361   | 811   | 674   | 395   | 338   | 299  | 345   | 299   | 521   |
| 11    | 757   | 300  | 501   | 346   | 2390  | 635   | 383   | 331   | 285  | 378   | 269   | 547   |
| 12    | 609   | 292  | 455   | 342   | 3970  | 600   | 382   | 327   | 284  | 388   | 275   | 379   |
| 13    | 428   | 289  | 420   | 339   | 2500  | 571   | 385   | 320   | 275  | 327   | 266   | 317   |
| 14    | 346   | 287  | 393   | 402   | 1190  | 543   | 382   | 327   | 269  | 300   | 258   | 293   |
| 15    | 926   | 285  | 375   | 2460  | 858   | 516   | 376   | 383   | 268  | 282   | 285   | 280   |
| 16    | 1110  | 295  | 362   | 2300  | 740   | 494   | 370   | 419   | 281  | 268   | 562   | 274   |
| 17    | 933   | 300  | 352   | 1280  | 630   | 483   | 361   | 345   | 287  | 298   | 730   | 269   |
| 18    | 1650  | 310  | 344   | 816   | 570   | 466   | 341   | 316   | 339  | 538   | 532   | 265   |
| 19    | 1280  | 330  | 338   | 631   | 534   | 447   | 332   | 306   | 377  | 621   | 363   | 262   |
| 20    | 629   | 290  | 334   | 528   | 507   | 465   | 327   | 303   | 319  | 511   | 344   | 259   |
| 21    | 571   | 270  | 332   | 484   | 485   | 2380  | 324   | 313   | 288  | 472   | 304   | 259   |
| 22    | 2520  | 260  | 328   | 476   | 465   | 1890  | 320   | 370   | 277  | 412   | 292   | 257   |
| 23    | 4430  | 250  | 322   | 489   | 456   | 1020  | 321   | 362   | 270  | 326   | 279   | 278   |
| 24    | 4560  | 248  | 317   | 460   | 1000  | 733   | 329   | 336   | 269  | 354   | 273   | 306   |
| 25    | 5030  | 237  | 313   | 483   | 4540  | 615   | 332   | 316   | 289  | 789   | 269   | 329   |
| 26    | 2210  | 230  | 308   | 1050  | 8060  | 548   | 389   | 303   | 351  | 337   | 315   | 292   |
| 27    | 945   | 440  | 305   | 1540  | 8090  | 517   | 4170  | 295   | 327  | 326   | 461   | 338   |
| 28    | 694   | 500  | 304   | 1080  | 4800  | 527   | 3550  | 290   | 372  | 301   | 365   | 441   |
| 29    | 572   | 410  | 313   | 810   | ---   | 524   | 1600  | 289   | 287  | 278   | 280   | 305   |
| 30    | 499   | 450  | 1810  | 3620  | ---   | 490   | 884   | 287   | 271  | 269   | 268   | 1100  |
| 31    | 451   | ---  | 2200  | 3670  | ---   | 672   | ---   | 285   | ---  | 264   | 288   | ---   |
| TOTAL | 33799 | 9926 | 20841 | 29457 | 70296 | 37920 | 22013 | 11387 | 8768 | 10764 | 10278 | 12606 |
| MEAN  | 1090  | 331  | 672   | 950   | 2511  | 1223  | 734   | 367   | 292  | 347   | 332   | 420   |
| MAX   | 5030  | 500  | 2420  | 3670  | 8090  | 6260  | 4170  | 771   | 377  | 789   | 730   | 1100  |
| MIN   | 238   | 230  | 304   | 339   | 456   | 447   | 320   | 285   | 268  | 259   | 258   | 257   |
| CFSM  | 1.88  | .57  | 1.16  | 1.64  | 4.33  | 2.11  | 1.27  | .63   | .50  | .60   | .57   | .72   |
| IN.   | 2.17  | .64  | 1.34  | 1.89  | 4.51  | 2.43  | 1.41  | .73   | .56  | .69   | .66   | .81   |

| CAL YR 1984 | TOTAL | 297713 | MEAN | 813 | MAX | 10500 | MIN | 230 | CFSM | 1.40 | IN. | 19 |
|-------------|-------|--------|------|-----|-----|-------|-----|-----|------|------|-----|----|
| WTR YR 1985 | TOTAL | 278055 | MEAN | 762 | MAX | 8090  | MIN | 230 | CFSM | 1.31 | IN. | 17 |

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at crest-stage partial-record stations are presented in the following table. Discharge measurements made at low-flow partial-record sites and at miscellaneous sites and for special studies are given in separate tables.

## 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 1985

| Station No.        | Station Name                            | Location                                                                                                                                                                                                                      | Drainage area (mi <sup>2</sup> ) | Period of record            | Annual Maximum |                    |                                 |
|--------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------|----------------|--------------------|---------------------------------|
|                    |                                         |                                                                                                                                                                                                                               |                                  |                             | Date           | Gage height (feet) | Dis-charge (ft <sup>3</sup> /s) |
| MOBILE RIVER BASIN |                                         |                                                                                                                                                                                                                               |                                  |                             |                |                    |                                 |
| 02434000           | Town Creek at Tupelo, MS                | Lat 34°17'39", long 88°42'32", in SW¼ SE¼ sec.18, T.9 S., R.6 E., Chickasaw Meridian, Lee County, Hydrologic Unit 03160102, on U.S. Highway 45, 0.5 mi north of city limits of Tupelo. Prior to 1971 at datum 0.40 ft higher. | 111                              | 1944-46 , 1952-70 , 1971-85 | 02-11-85       | (e)                | <4,000                          |
| 02435800           | Coonewah Creek at Shannon, MS           | Lat 34°08'17", long 88°43'08", in SE¼ sec.12, T.11 S., R.5 E., Chickasaw Meridian, Lee County, Hydrologic Unit 03160102, on U.S. Highway 45, 1.0 mi north of Shannon and 4.5 mi upstream from mouth.                          | 53.1                             | 1953-85                     | 5- 1-85        | 13.89              | (f)                             |
| 02436000           | Chiwapa Creek at Shannon, MS            | Lat 34°06'35", long 88°43'20", in SE¼ sec.24, T.11 S., R.5 E., Chickasaw Meridian, Lee County, Hydrologic Unit 03160102, at bridge on U.S. Highway 45W at Shannon, and 0.7 mi above Gulf, Mobile and Ohio Railroad bridge.    | 145                              | 1952-67 , 1968-85           | 4-24-85        | 9.80               | 13,500                          |
| 02437300           | Mattubby Creek near Aberdeen, MS        | Lat 33°52'13", long 88°35'46", in SE¼SE¼ sec.7, T.14 S., R.7 E., Chickasaw Meridian, Monroe County, Hydrologic Unit 03160101, at bridge on U.S. Highway 45, 1.5 mi above Wolf River, and 4.1 mi northwest of Aberdeen.        | 92.2                             | 1937, 1952-85               | 2- 8-85        | 92.12              | 6,070                           |
| 02437550           | Nichols Creek tributary near Quincy, MS | Lat 33°54'20", long 88°21'05", in SE¼ sec.29, T.13 S., R.10 E., Huntsville Meridian, Monroe County, Hydrologic Unit 03160101, at culvert on U.S. Highway 278, 1.0 mi southeast of Quincy.                                     | .54                              | 1967-85                     | 10-24-84       | 6.30               | 230                             |
| 02437600           | James Creek at Aberdeen, MS             | Lat 38°48'48", long 88°33'59", in SW¼SE¼ sec.33, T.14 S., R.7 E., Chickasaw Meridian, Monroe County, Hydrologic Unit 03160101, at bridge on State Highway 25, 0.4 mi southwest of Aberdeen.                                   | 28.4                             | 1964-68 , 1969-85           | 10-22-84       | 15.21              | 6,970                           |
| 02439980           | Chuquatonchee Creek near Okolona, MS    | Lat 34°00'05", long 88°53'00", in NE¼ sec.33, T.12 S., R.4 E., Chickasaw Meridian, Chickasaw County, Hydrologic Unit 03160104, at bridge on State Highway 32, 7.5 mi west of Okolona.                                         | b66.7                            | 1963-68, 1969-80, 1984-85   | 6-19-85        | 12.25              | 2,200                           |

See footnotes at end of table.



## DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations during water year 1985

| Annual maximum discharge at crest-stage partial-record stations during water year 1985 |                                             |                                                                                                                                                                                                                                    |                                  |                             | Annual Maximum |                    |                                 |
|----------------------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------|----------------|--------------------|---------------------------------|
| Station No.                                                                            | Station Name                                | Location                                                                                                                                                                                                                           | Drainage area (mi <sup>2</sup> ) | Period of record            | Date           | Gage height (feet) | Dis-charge (ft <sup>3</sup> /s) |
| MOBILE RIVER BASIN--Continued                                                          |                                             |                                                                                                                                                                                                                                    |                                  |                             |                |                    |                                 |
| 02440000                                                                               | Chuquatonchee Creek near Egypt, MS          | Lat 33°50'24", long 88°45'40", on line between secs.22 and 27, T.14 S., R.5 E., Chickasaw Meridian, Chickasaw County, Hydrologic Unit 03160104, at bridge on State Highway 8, 4.5 mi southwest of Egypt.                           | 167                              | 1952-73†, 1974-85           | 02-13-85       | 12.94              | 4,280                           |
| 02440400                                                                               | Houlka Creek near McCondy, MS               | Lat 33°47'05", long 88°51'15", in SE½SW¼ sec.11, T.15 S., R.4 E., Chickasaw Meridian, Clay County, Hydrologic Unit 03160104, at bridge on State Highway 47, 2.8 mi south of McCondy.                                               | 189                              | 1963-68†, 1969-85           | 2-12-85        | 13.54              | 5,170                           |
| 02440500                                                                               | Chuquatonchee Creek near West Point, MS     | Lat 33°36'25", long 88°42'30", on line between secs.7 and 18, T.17 S., R.6 E., Chickasaw Meridian, Clay County, Hydrologic Unit 03160104, at bridge on State Highway 50, 3.0 mi west of West Point.                                | 505                              | 1944-73†, 1974-85           | 2-13-85        | 17.00              | 9,500                           |
| 02440600                                                                               | Line Creek near Maben, MS                   | Lat 33°39'17", long 89°03'41" in S½ sec.26 T.16 S., R.2 E., Chickasaw Meridian, Webster County, Hydrologic Unit 08060201, at bridge on State Highway 15, 1,000 ft below Gulf, Mobile and Ohio Railroad, and 7.0 mi north of Maben. | 4.76                             | 1952-85                     | 10-22-84       | 22.91              | 2,880                           |
| 02440800                                                                               | Trim Cane Creek near Starkville, MS         | Lat 33°28'08", long 88°54'30", in W½ sec.35, T.19 N., R.13 E., Choctaw Meridian, Oktibbeha County, Hydrologic Unit 03160104, at bridge on U.S. Highway 82, 3.0 mi above Biba Willa Creek, and 6.0 mi west of Starkville.           | 44.9                             | 1952-85                     | 10-22-84       | 26.35              | 6,050                           |
| 02441220                                                                               | Sand Creek tributary near Mayhew, MS        | Lat 33°28'37", long 88°43'23", on line between SW¼ sec.27 and NW¼ sec.34, T.19 N., R.15 E., Choctaw Meridian, Oktibbeha County, Hydrologic Unit 03160104, on U.S. Highway 82, 3.7 mi west of Mayhew.                               | .44                              | 1966-85                     | 11-27-84       | 3.81               | 62                              |
| 02441300                                                                               | Catalpa Creek at Mayhew, MS                 | Lat 33°28'53", long 88°37'42", in NE¼ SW¼ sec.28, T.19 N., R.16 E., Choctaw Meridian, Lowndes County, Hydrologic Unit 03160104, at bridge on U.S. Highway 82, 0.5 mi east of Mayhew.                                               | 98.0                             | 1963-68†, 1969-85           | 2-11-85        | 14.11              | 2,500                           |
| 02443000                                                                               | Luxapallila Creek at Steens, MS             | Lat 33°33'35", long 88°18'55" in NE¼ sec.27, T.17 S., R.17 W., Huntsville Meridian, Lowndes County, Hydrologic Unit 03160105, on county highway, 0.2 mi southeast of Steens.                                                       | 309                              | 1944-47†, 1950-77†, 1978-85 | 5- 3-85        | 15.48              | 4,680                           |
| 02448620                                                                               | Flat Scooba Creek tributary near Scooba, MS | Lat 32°50'27", long 88°28'08", in SE¼ sec.32, T.12 N., R.18 E., Choctaw Meridian, Kemper County, Hydrologic Unit 03160108, at culvert on U.S. Highway 45, 0.8 mi north of Scooba.                                                  | .44                              | 1967-85                     | 8-18-85        | 4.83               | 90                              |
| PASCAGOULA RIVER BASIN                                                                 |                                             |                                                                                                                                                                                                                                    |                                  |                             |                |                    |                                 |
| 02471100                                                                               | Leaf River near Raleigh, MS                 | Lat 32°00'47", long 89°25'58", in SE¼SE¼ sec.13, T.2 N., R.8 E., Choctaw Meridian, Smith County, Hydrologic Unit 03170004, at bridge on State Highway 18, 6.0 mi east of Raleigh.                                                  | 143                              | 1940-43†, 1957-85           | --             | (e)                | <4,800                          |
| 02471250                                                                               | Leaf River at Taylorsville, MS              | Lat 31°49'40", long 89°24'30", on line between secs.16 and 21, T.10 N., R.14 W., St. Stephens Meridian, Smith County, Hydrologic Unit 03170004, on State Highway 28, 1.0 mi east of Taylorsville.                                  | 459                              | 1968-85                     | 2-28-85        | 248.92             | 12,000                          |

See footnotes at end of table.

## DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Annual maximum discharge at crest-stage partial-record stations during water year 1985

| Annual maximum discharge at crest-stage partial-record stations during water year 1963 |                                                 |                                                                                                                                                                                                                                                                    |                                  |                   |                |                    |                                 |
|----------------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------|----------------|--------------------|---------------------------------|
| Station No.                                                                            | Station Name                                    | Location                                                                                                                                                                                                                                                           | Drainage area (mi <sup>2</sup> ) | Period of record  | Annual Maximum |                    |                                 |
|                                                                                        |                                                 |                                                                                                                                                                                                                                                                    |                                  |                   | Date           | Gage height (feet) | Dis-charge (ft <sup>3</sup> /s) |
| PASCAGOULA RIVER BASIN                                                                 |                                                 |                                                                                                                                                                                                                                                                    |                                  |                   |                |                    |                                 |
| 02471500                                                                               | Oakohay Creek at Mize, MS                       | Lat 31°52'00", long 89°32'49", in NW¼, sec.6, T.10 N., R.15 W., St. Stephens Meridian, Smith County, Hydrologic Unit 03170004, on State Highway 28, at Mize.                                                                                                       | 185                              | 1943-49†, 1968-85 | 10-23-84       | 286.28             | 4,200                           |
| 02472420                                                                               | Bowie Creek near Sanford, MS                    | Lat 31°28'20", long 89°31'20", in NE¼ sec.20, T.6 N., R.15 W., St. Stephens Meridian, Covington County, Hydrologic Unit 03170004, at bridge on State Highway 589, 5.0 mi south-west of junction with U.S. Highway 49.                                              | 262                              | 1968-85           | 8-17-85        | (c)                | 6,800                           |
| 02473047                                                                               | Gordon Creek at Broad Street at Hattiesburg, MS | Lat 31°19'42", long 89°18'14", in NW¼NE¼ sec.9, T.4 N., R.13 W., St. Stephens Meridian, Forrest County, Hydrologic Unit 03170005, at bridge on Broad Street in Hattiesburg.                                                                                        | 8.83                             | 1969-85           | 8-16-85        | 8.83               | 993                             |
| 02473480                                                                               | Tallahattah Creek near Waldrup, MS              | Lat 31°51'40", long 89°05'10", in NW¼SE¼ sec.3, T.10 N., R.11 W., St. Stephens Meridian, Jasper County, Hydrologic Unit 03170005, on paved county road, 8.7 mi south of Waldrup.                                                                                   | 30.4                             | 1965-70†, 1971-85 | 2- 9-85        | 14.07              | 880                             |
| 02473850                                                                               | Tallahomah Creek tributary at Lake Como, MS     | Lat 31°57'43", long 89°12'18", on line between SE¼ sec.31, T.1 N., and NE¼ sec.6, R.11 E., (revised) Choctaw Meridian, Jasper County, Hydrologic Unit 03170005, at culvert on State Highway 528, 0.5 mi east of Lake Como.                                         | 3.21                             | 1966-85           | 2-11-85        | 7.11               | 850                             |
| 02474650                                                                               | Buck Creek near Runnelstown, MS                 | Lat 31°21'50", long 89°03'08", in SE¼ sec.25, T.5 N., R.11 W., St. Stephens Meridian, Perry County, Hydrologic Unit 03170005, at bridge on State Highway 42, 2.5 mi above mouth, and 3.7 mi east of Runnelstown.                                                   | 20.8                             | 1951-85           | 3- 1-85        | (e)                | <1,620                          |
| 02475050                                                                               | Waterfall Branch near McLain, MS                | Lat 31°07'08", long 88°45'28", in SW¼ NE¼SE¼ sec.23, T.2 N., R.8 W., St. Stephens Meridian, Greene County, Hydrologic Unit 03170005, at culvert on State Highway 57, 4.2 mi east of McLain. Prior to Oct. 1, 1964, at datum 0.72 ft lower.                         | .65                              | 1955-85           | 10-22-84       | 5.25               | 160                             |
| 02477050                                                                               | Souenlovie Creek near Baxter, MS                | Lat 32°13'10", long 89°09'30", in NE¼ sec.3 T.4 N., R.11 E., Choctaw Meridian, Jasper County, Hydrologic Unit 03170002, at culvert on State Highway 15, 2.6 mi north of Baxter.                                                                                    | 1.14                             | 1965-85           | 12- 3-84       | 9.97               | 640                             |
| 02477330                                                                               | Shubuta Creek near Shubuta, MS                  | Lat 31°53'04", long 88°44'20" in NW¼ sec. 35, T.1 N., R.15 E., Choctaw Meridian, Clarke County, Hydrologic Unit 03170002, at county highway 1.5 mi northwest of Shubuta, and 5.0 mi above mouth.                                                                   | 75.5                             | 1963-85           | 3- 2-85        | (e)                | <1,550                          |
| TCHOUTACABOUFFA RIVER BASIN                                                            |                                                 |                                                                                                                                                                                                                                                                    |                                  |                   |                |                    |                                 |
| 02480500                                                                               | Tuxachanie Creek near Biloxi, MS                | Lat 30°31'35", long 88°54'40", in SE¼ NW¼ sec.20, T.6 S., R.9 W., St. Stephens Meridian, Harrison County, Hydrologic Unit 03170009, at bridge on State Highway 15, 7.0 mi north of city limits of Biloxi.                                                          | 92.4                             | 1952-71†, 1972-85 | 9-24-85        | 18.12              | 5,290                           |
| BILOXI RIVER BASIN                                                                     |                                                 |                                                                                                                                                                                                                                                                    |                                  |                   |                |                    |                                 |
| 02481130                                                                               | Biloxi River near Lyman, MS                     | Lat 30°29'18", long 89°02'09", in SE¼SE¼ sec.25, T.6 S., R.11 W., St. Stephens Meridian, Harrison County, Hydrologic Unit 03170009, on downstream side of left pier of bridge on county highway, 1.2 mi downstream from Little Biloxi River, 4.6 mi east of Lyman. | 251                              | 1965-85           | 9-24-85        | 19.78              | 22,500                          |

See footnotes at end of table.

## DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations during water year 1985

| Annual maximum discharge at crest-stage partial-record stations during water year 1985 |                                              |                                                                                                                                                                                                                                                                                                                                                                            |                                  |                            |                |                    |                                 |
|----------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------|----------------|--------------------|---------------------------------|
| Station No.                                                                            | Station Name                                 | Location                                                                                                                                                                                                                                                                                                                                                                   | Drainage area (mi <sup>2</sup> ) | Period of record           | Annual Maximum |                    |                                 |
|                                                                                        |                                              |                                                                                                                                                                                                                                                                                                                                                                            |                                  |                            | Date           | Gage height (feet) | Dis-charge (ft <sup>3</sup> /s) |
| PEARL RIVER BASIN                                                                      |                                              |                                                                                                                                                                                                                                                                                                                                                                            |                                  |                            |                |                    |                                 |
| 02483890                                                                               | Yockanookany River tributary near McCool, MS | Lat 33°10'06", long 89°25'28", in SW¼ sec.7, T.15 N., R.9 E., Choctaw Meridian, Attala County, Hydrologic Unit 03180001, at culvert on State Highway 12, 4.0 mi southwest of McCool.                                                                                                                                                                                       | 0.34                             | 1965-85                    | 02- 7-85       | 2.77               | 43                              |
| 02484600                                                                               | Coffee Bogue at Ludlow, MS                   | Lat 32°34'25", long 89°43'48", in N¼ of line between sec.1 and 6, T.8 N., R.5 E., Choctaw Meridian, Scott County, Hydrologic Unit 03180002, at bridge on county road, 1.0 mi west of Ludlow.                                                                                                                                                                               | 77.0                             | 1975-85                    | 2- 1-85        | 11.71              | 1,920                           |
| 02484750                                                                               | Red Cane Creek tributary near Pisgah, MS     | Lat 32°28'05", long 89°47'55", on line between NE¼ sec.8 and NW¼ sec.9, T.7 N., R.5 E., Choctaw Meridian, Rankin County, Hydrologic Unit 03180002, at circular culvert on State Highway 43, 4.1 mi east of Pisgah.                                                                                                                                                         | .10                              | 1965-85                    | 2-24-85        | 5.04               | 66                              |
| 02484760                                                                               | Fannegusha Creek near Sand Hill, MS          | Lat 32°30'20", long 89°48'45", in SW¼ sec.29, T.8 N., R.5 E., Choctaw Meridian, Rankin County, Hydrologic Unit 03180002, at bridge on county road, 3.9 mi east of Sand Hill.                                                                                                                                                                                               | 52.3                             | 1975-85                    | 12-10-85       | 11.25              | 3,240                           |
| 02485650                                                                               | Purple Creek at Jackson, MS                  | Lat 32°22'48", long 90°07'19", in NW¼ sec.8, T.6 N., R.2 E., Choctaw Meridian, Hinds County, Hydrologic Unit 03180002, at Old Canton Road bridge in Jackson, and 1.5 mi above mouth.                                                                                                                                                                                       | 6.12                             | 1952-85                    | 9- 3-85        | 9.85               | 1,070                           |
| 02485800                                                                               | Eubanks Creek at Jackson, MS                 | Lat 32°20'23", long 90°09'52", in NE¼NW¼NE¼ sec.26, T.6 N., R.1 E., Choctaw Meridian, Hinds County, Hydrologic Unit 03180002, near right bank at downstream side of Wood Dale Drive bridge in Jackson, 1,600 ft upstream from Interstate 55 (formerly U.S. Highway 51), and 1.3 mi upstream from mouth. Prior to Oct. 1, 1959, 1,600 ft downstream at datum 0.74 ft lower. | 13.21                            | 1954-85                    | 10-21-84       | 10.50              | 1,790                           |
| 02486100                                                                               | Lynch Creek at Jackson, MS                   | Lat 32°17'04", long 90°12'52", in SE¼ sec.8, T.5 N., R.1 E., Choctaw Meridian, Hinds County, Hydrologic Unit 03180002, at bridge on Valley Street in Jackson, 2,000 ft below U.S. Highway 80, and 2.0 mi above mouth. Prior to Oct. 1, 1958, at site 2,000 ft upstream.                                                                                                    | 12.0                             | 1955-85                    | 10-21-84       | 15.46              | 3,800                           |
| 02486115                                                                               | Three Mile Creek at Jackson, MS              | Lat 32°16'15", long 90°13'00", in NW¼SE¼ sec.17, T.5 N., R.1 E., Choctaw Meridian, Hinds County, Hydrologic Unit 03180002, 300 ft downstream from old U.S. Highway 51 (Terry Road), 0.6 mi above Illinois Central Railroad.                                                                                                                                                | 1.05                             | 1962-85                    | 10-21-84       | 8.48               | 742                             |
| 02487300                                                                               | Strong River near Puckett, MS                | Lat 32°03'48", long 89°44'50", in SE¼SE¼ sec.26, T.3 N., R.4 E., Choctaw Meridian, Rankin County, Hydrologic Unit 03180002, at State Highway 18, 2.0 mi southeast of Puckett.                                                                                                                                                                                              | 248                              | 1958-85                    | 2- 5-85        | 20.03              | 3,230                           |
| 02487500                                                                               | Strong River at D'Lo, MS                     | Lat 31°58'40", long 89°53'53", in SW¼ sec.28, T.2 N., R.4 E., Choctaw Meridian, Simpson County, Hydrologic Unit 03180002, on left bank at downstream side of old U.S. Highway 49, 0.2 mi south of D'Lo.                                                                                                                                                                    | 425                              | 1928-71†, 1972-85          | 2- 6-85        | 19.41              | 5,330                           |
| 02487900                                                                               | Copiah Creek near Hazlehurst, MS             | Lat 31°53'23", long 90°17'10", in SW¼SE¼ sec.27, T.1 N., R.1 W., Choctaw Meridian, Copiah County, Hydrologic Unit 03180003, at bridge on State Highway 28, 6.2 mi east of Hazlehurst.                                                                                                                                                                                      | 47.4                             | 1948-65, 1966-68†, 1969-85 | --             | (e)                | <3,600                          |

See footnotes at end of table.

Annual maximum discharge at crest-stage partial-record stations during water year 1985

| Annual Maximum Discharge partial-record stations during water year 1965 |                                            |                                                                                                                                                                                                                                                                 |                                  |                   | Annual Maximum |                    |                                 |
|-------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------|----------------|--------------------|---------------------------------|
| Station No.                                                             | Station Name                               | Location                                                                                                                                                                                                                                                        | Drainage area (mi <sup>2</sup> ) | Period of record  | Date           | Gage height (feet) | Dis-charge (ft <sup>3</sup> /s) |
|                                                                         |                                            |                                                                                                                                                                                                                                                                 |                                  |                   |                |                    |                                 |
| PEARL RIVER BASIN--Continued                                            |                                            |                                                                                                                                                                                                                                                                 |                                  |                   |                |                    |                                 |
| 02489030                                                                | Elmers Draw near Columbia, MS              | Lat 31°11'58", long 89°57'57", in SE½SE¼NW¼ sec.26, T.3 N., R.12 E., Washington Meridian, Marion County, Hydrologic Unit 03180004, at U.S. Highway 98, 5.7 mi west of Columbia. Prior to Oct. 1, 1964, at datum 1.12 ft higher.                                 | 0.91                             | 1955-85           | 07-24-85       | 6.78               | 320                             |
| 02492360                                                                | West Hobolochitto Creek near McNeill, MS   | Lat 30°39'42", long 89°41'10", in NW¼NE¼ sec.34, T.4 S., R.17 W., St. Stephens Meridian, Pearl River County, Hydrologic Unit 03180004 at bridge on county road, 3.1 mi west of McNeill.                                                                         | 175                              | 1966-68†, 1969-85 | 8-16-85        | 18.02              | 5,400                           |
| YAZOO RIVER BASIN                                                       |                                            |                                                                                                                                                                                                                                                                 |                                  |                   |                |                    |                                 |
| 07267000                                                                | Hell Creek near New Albany, MS             | Lat 34°30'55", long 89°03'10", in SW¼ sec.36, T.6 S., R.2 E., Chickasaw Meridian, Union County, Hydrologic Unit 08030201, at bridge on U.S. Highway 78, 3.0 mi northwest of New Albany, and 4.5 mi above mouth.                                                 | 27.3                             | 1939-42†, 1952-85 | 8-17-85        | 8.82               | 3,790                           |
| 07268500                                                                | Cypress Creek near Etta, MS                | Lat 34°26'30", long 89°17'25", in SE¼ sec.27, T.7 S., R.1 W., Chickasaw Meridian, Lafayette County, Hydrologic Unit 08030201, at bridge on State Highway 30, 4.5 mi southwest of Etta, and 5.0 mi above mouth. Prior to Oct. 1, 1964, at datum 10.00 ft higher. | 28.5                             | 1939-42†, 1952-85 | 2-24-85        | (e)                | <3,760                          |
| 07269000                                                                | North Tippah Creek near Ripley, MS         | Lat 34°44'00", long 89°01'34", in SW¼ sec.18, T.4 S., R.3 E., Chickasaw Meridian, Tippah County, Hydrologic Unit 08030201, at bridge on State Highway 4, 2.0 mi upstream from Tippah Creek, and 5.5 mi west of Ripley.                                          | 20.0                             | 1939-42†, 1952-85 | 5- 8-85        | 15.81              | 3,000                           |
| 07274250                                                                | Otocalofa Creek at Water Valley, MS        | Lat 34°08'26", long 89°38'15", in SW¼ NE¼ sec.8, T.11 S., R.4 W., Chickasaw Meridian, Yalobusha County, Hydrologic Unit 08020203, at bridge on State Highway 7, 0.9 mi south of Water Valley, and 5.2 mi above mouth.                                           | 84.1                             | 1952-85           | --             | (e)                | <3,270                          |
| 07275500                                                                | Long Creek at Courtland, MS                | Lat 34°13'40", long 89°56'20", near center of sec.9, T.10 S., R.7 W., Chickasaw Meridian, Panola County, Hydrologic Unit 08030203, at bridge on U.S. Highway 51, 1.0 mi south of Courtland, 5.5 mi above mouth, and 6.0 mi south of Batesville.                 | 66.2                             | 1940-43†, 1952-85 | 8- 6-85        | 10.63              | <sup>b</sup> 10,500             |
| 07285700                                                                | Long Creek near Cascilla, MS               | Lat 33°51'40", long 89°59'05", in NE¼ sec.16, T.23 N., R.3 E., Choctaw Meridian, Tallahatchie County, Hydrologic Unit 08030205, at culvert on county highway, 1.1 mi east of Cascilla.                                                                          | 1.64                             | 1965-85           | 8- 7-85        | 8.97               | 1,000                           |
| 07287350                                                                | Fannegusha Creek near Tchula, MS           | Lat 33°10'00", long 90°10'12", on line between secs.11 and 14, T.15 N., R.1 E., Choctaw Meridian, Holmes County, Hydrologic Unit 08030206, on State Highway 12, east of Tchula.                                                                                 | 100                              | 1953-659, 1968-85 | 10-22-84       | 19.28              | 8,000                           |
| BIG BLACK RIVER BASIN                                                   |                                            |                                                                                                                                                                                                                                                                 |                                  |                   |                |                    |                                 |
| 07289265                                                                | Hays Creek tributary No. 1 near Vaiden, MS | Lat 33°23'10", long 89°46'07", in SE¼SW¼ sec.27, T.18 N., R.5 E., Choctaw Meridian, Carroll County, Hydrologic Unit 08060201, at bridge on U.S. Highway 51, 3.9 mi north of Vaiden.                                                                             | 14.0                             | 1975-85           | 10-22-84       | 26.37              | 2,050                           |

See footnotes at end of table.

## DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations during water year 1985

| Annual Maximum Discharge at Crest-Stage Partial-Record Stations during Water Year 1985 |                                        |                                                                                                                                                                                                                                                            |                                  |                   | Annual Maximum |                    |                                 |
|----------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------|----------------|--------------------|---------------------------------|
| Station No.                                                                            | Station Name                           | Location                                                                                                                                                                                                                                                   | Drainage area (mi <sup>2</sup> ) | Period of record  | Date           | Gage height (feet) | Dis-charge (ft <sup>3</sup> /s) |
| BIG BLACK RIVER BASIN--Continued                                                       |                                        |                                                                                                                                                                                                                                                            |                                  |                   |                |                    |                                 |
| 07289600                                                                               | Tilda Bogue near Canton, MS            | Lat 32°39'15", long 90°00'05", in SW¼ sec.5, T.9 N., R.3 E., Choctaw Meridian, Madison County, Hydrologic Unit 08060202, at bridge on U.S. Highway 51, 3.0 mi north of Canton, and 3.5 mi above mouth.                                                     | 24.4                             | 1948-85           | 02-11-85       | 17.83              | (†)                             |
| 07289641                                                                               | Panther Creek tributary near Flora, MS | Lat 32°34'00", long 90°10'05", in SW¼ sec.2, T.8 N., R.1 E., Choctaw Meridian, Madison County, Hydrologic Unit 08060202, at culvert on State Highway 22, 8.3 mi northeast of Flora.                                                                        | .07                              | 1965-85           | 4-24-85        | 5.83               | 107                             |
| 07290005                                                                               | Clear Creek near Bovina, MS            | Lat 32°21'42", long 90°43'32", in SW¼ sec.17, T.6 N., R.5 W., Choctaw Meridian, Warren County, Hydrologic Unit 08060202, on county road, 1.0 mi northeast of Bovina.                                                                                       | 436.0                            | 1953-85           | 2-24-85        | 22.72              | 3,770                           |
| BAYOU PIERRE BASIN                                                                     |                                        |                                                                                                                                                                                                                                                            |                                  |                   |                |                    |                                 |
| 07290690                                                                               | Clarks Creek near Pattison, MS         | Lat 31°53'40", long 90°50'40", in lot 35, T.11 N., R.4 E., Washington Meridian, Claiborne County, Hydrologic Unit 08060203, at bridge on county highway, 1.3 mi above mouth, and 2.5 mi east of Pattison.                                                  | 77.4                             | 1961-62†, 1963-85 | 4-24-85        | 18.69              | 9,100                           |
| 07290830                                                                               | Little Creek near Fayette, MS          | Lat 31°40'30", long 91°04'10", in SE corner of irregular section 24, T.8 N., R.1 E., Washington Meridian, Jefferson County, Hydrologic Unit 08060204, at culvert on State Highway 33, 2.0 mi south of Fayette.                                             | 1.71                             | 1967-85           | 10-22-84       | 8.80               | 650                             |
| 07290870                                                                               | Coles Creek near Fayette, MS           | Lat 31°45'55", long 91°11'30", in lot 21, T.9 N., R.1 W., Washington Meridian, Jefferson County, Hydrologic Unit 08060204, at bridge on county highway, 0.7 mi below confluence of North and South Forks of Coles Creek, and 10.0 mi northwest of Fayette. | 257                              | 1961-62†, 1963-85 | 10-23-84       | 29.21              | 41,500                          |
| HOMOCHITTO RIVER BASIN                                                                 |                                        |                                                                                                                                                                                                                                                            |                                  |                   |                |                    |                                 |
| 07291250                                                                               | McCall Creek near Lucien, MS           | Lat 31°30'24", long 90°38'45", in SW¼ sec.6, T.6 N., R.6 E., Washington Meridian, Franklin County, Hydrologic Unit 08060205, at U.S. Highway 84, 0.8 mi east of Lucien.                                                                                    | 460.0                            | 1953, 1955-85     | 10-23-84       | 86.16              | 11,200                          |
| THOMPSON CREEK BASIN                                                                   |                                        |                                                                                                                                                                                                                                                            |                                  |                   |                |                    |                                 |
| 07373550                                                                               | Moore's Branch near Woodville, MS      | Lat 31°05'20", long 91°14'30", in SE¼SW¼ sec.32, T.2 N., R.1 W., Washington Meridian, Wilkinson County, Hydrologic Unit 08070201, at State Highway 24, 3.3 mi east of Woodville. Prior to Oct. 1, 1964, at datum 0.88 ft lower.                            | .21                              | 1955-85           | 10-22-84       | 7.39               | 360                             |

† Discharge not determined.

‡ Operated as a continuous-record gaging station.

a Revised.

b Approximately.

c High-water mark was not determined.

d Gage heights and discharge measurements in files of Corps of Engineers.

e Peak stage did not reach bottom of gage.

f Total drainage area 5.19 mi<sup>2</sup>.

g Published at site near Howard, 3 mi downstream.



## Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. Most of these measurements were made during periods of base flow when streamflow is primarily from ground water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream where continuous records are available, will give a picture of the low-flow potentiality of the stream. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site.

## Discharge measurements made at low-flow partial-record stations during water year 1985

| Discharge measurements made at low-flow partial-record stations during water year 1985 |                                     |                                                                                                                                                                                                                                           |                                  |                                                                           | Measurements |                                |
|----------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------------------------|--------------|--------------------------------|
| Station No.                                                                            | Station name                        | Location                                                                                                                                                                                                                                  | Drainage area (mi <sup>2</sup> ) | Period of record                                                          | Date         | Discharge (ft <sup>3</sup> /s) |
| MOBILE RIVER BASIN                                                                     |                                     |                                                                                                                                                                                                                                           |                                  |                                                                           |              |                                |
| 02429920                                                                               | Hurricane Creek near Marietta, MS   | Lat 34°31'48", long 88°27'46", in S½ sec.28, T.6 S., R.8 E., Chickasaw Meridian, Prentiss County, Hydrologic Unit 03160101, at State Highway 371, 2 mi north of Marietta.                                                                 | 18.4                             | 1985                                                                      | 09-17-85     | 0.28                           |
| 02430580                                                                               | Donivan Creek at Kirkville, MS      | Lat 34°27'25", long 88°28'49", in NW¼ sec.20, T.7 S., R.8 E., Chickasaw Meridian, Itawamba County, Hydrologic Unit 03160101, 1.0 mi northeast of Kirkville.                                                                               | 30.9                             | 1985                                                                      | 9-16-85      | .36                            |
| 02430690                                                                               | Twentymile Creek near Mantachie, MS | Lat 34°23'09", long 88°27'40", in NE¼ sec.16, T.8 S., R.8 E., Chickasaw Meridian, Itawamba County, Hydrologic Unit 03160101, at State Highway 371, 3 miles upstream from East Fork Tombigbee River, and 4.5 miles northeast of Mantachie. | 150                              | 1962-63, 1965, 1970-71, 1973-74, 1976-78, 1985                            | 9-17-85      | 4.04                           |
| 02431400                                                                               | Mantachie Creek at Dorsey, MS       | Lat 34°15'09", long 88°28'35", in SE¼ sec.32, T.9 S., R.8 E., Chickasaw Meridian, Itawamba County, Hydrologic Unit 03160101, at U.S. Highway 78, 0.5 mi east of Dorsey.                                                                   | 61.8                             | 1942, 1944-46, 1952-54, 1956, 1958, 1962, 1970-71, 1973-74, 1976-78, 1985 | 9-17-85      | 2.83                           |
| 02433900                                                                               | Yonaba Creek near Saltillo, MS      | Lat 34°20'24", long 88°44'46", in S½ sec.35, T.8 S., R.5 E., Chickasaw Meridian, Lee County, Hydrologic Unit 03160102, on county road, 4 mi north of U.S. Highway 45, and 5 mi northwest of Tupelo.                                       | 276                              | 1967, 1985                                                                | 9-17-85      | 4.84                           |
| 02434250                                                                               | Tishomingo Creek near Saltillo, MS  | Lat 34°24'30", long 88°45'10", on line between secs.2 and 11, T.8 S., R.5 E., Chickasaw Meridian, Lee County, Hydrologic Unit 03160102, on county road, 4.5 mi northwest of Saltillo.                                                     | 30.1                             | 1950-63, 1985                                                             | 9-17-85      | .23                            |
| 02435800                                                                               | Coonewah Creek at Shannon, MS       | Lat 34°08'17", long 88°43'08", in SE¼ sec.12, T.11 S., R.5 E., Chickasaw Meridian, Lee County, Hydrologic Unit 03160102, on U.S. Highway 45, 1.0 mi north of Shannon, and 4.5 mi upstream from mouth.                                     | 53.1                             | 1953-85*                                                                  | 9-20-85      | .74                            |
| 02435980                                                                               | Chiwapa Creek near Shannon, MS      | Lat 34°09'56", long 88°48'41", in SE¼SE¼ sec.31, T.10 S., R.5 E., Chickasaw Meridian, Lee County, Hydrologic Unit 03160102, on Natchez Trace Parkway, 6 mi southwest of Tupelo.                                                           | 114                              | 1985*                                                                     | 9-20-85      | 8.36                           |

See footnotes at end of table.

## DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at low-flow partial-record stations during water year 1985

| Discharge measurements made at low-flow partial-record stations during water year 1985 |                                      |                                                                                                                                                                                                                                                                 |                     |                                       | Measurements |                   |
|----------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------|--------------|-------------------|
| Station No.                                                                            | Station name                         | Location                                                                                                                                                                                                                                                        | Drainage area (mi2) | Period of record                      | Date         | Discharge (ft3/s) |
| MOBILE RIVER BASIN--Continued                                                          |                                      |                                                                                                                                                                                                                                                                 |                     |                                       |              |                   |
| 02467450                                                                               | Ponta Creek at Lauderdale, MS        | Lat 32°31'48", long 88°30'41", in NE¼ sec.24, T.8 N., R.17 E., Choctaw Meridian, Lauderdale County, Hydrologic Unit 03160202, 0.5 mi north of Lauderdale.                                                                                                       | 64.6                | 1953-56, 1959, 1960, 1964, 1967, 1985 | 9-18-85      | 12.5              |
| 02467244                                                                               | Pawticfaw Creek Near Cullum, MS      | Lat 32°39'48", long 88°38'45", in NE¼ sec.3, T.9 N., R.16 E., Choctaw Meridian, Kemper County, Hydrologic Unit 03160202, on county road, 3 mi northwest of Cullum.                                                                                              | 38.9                | 1985                                  | 9-19-85      | 10.0              |
| PASCAGOULA RIVER BASIN                                                                 |                                      |                                                                                                                                                                                                                                                                 |                     |                                       |              |                   |
| 02478130                                                                               | Big Creek near Smithtown, MS         | Lat 31°28'52", long 88°38'20", in SE¼ sec.13, T.6 N., R.7 W., St. Stephens Meridian, Wayne County, Hydrologic Unit 03170003, on county road, 6 mi northeast of Smithtown.                                                                                       | 108                 | 1985                                  | 9-19-85      | 11.8              |
| 02478680                                                                               | Big Creek near Jonathon, MS          | Lat 31°12'30", long 88°38'28", in E¼ sec.24, T.3 N., R.7 W., St. Stephens Meridian, Greene County, Hydrologic Unit 03170003, on State Highway 63, 1 mi south of Jonathon.                                                                                       | 120                 | 1965, 1985                            | 9-19-85      | 9.38              |
| 02478760                                                                               | Big Creek near Hillman, MS           | Lat 31°04'20", long 88°38'27", in SE¼SE¼ sec.1, T.1 N., R.7 W., in St. Stephens Meridian, Greene County, Hydrologic Unit 03170003, on county road, 4 mi south of Hillman.                                                                                       | 184                 | 1965, 1971, 1985                      | 9-19-85      | 22.9              |
| 02479190                                                                               | Red Creek near Wiggins, MS           | Lat 30°51'06", long 89°12'52", in NW¼ sec.29, T.2 S., R.12 W., St. Stephens Meridian, Stone County, Hydrologic Unit 03170007, at bridge on State Highway 26, 4 mi west of Wiggins.                                                                              | 160                 | 1952-70, 1985                         | 9-20-85      | 344               |
| 02479230                                                                               | Red Creek near Ramsey Springs, MS    | Lat 30°46'26", long 88°54'51", in SE¼NW¼ sec.20 T.3 S., R.9 W., St. Stephens Meridian, Stone County, Hydrologic Unit 03170007, on State Highway 15, 1.7 mi north of Ramsey Springs.                                                                             | 368                 | 1985                                  | 10- 9-84     | 201               |
| 02477980                                                                               | Buckatunna Creek near Waynesboro, MS | Lat 31°44'33", long 88°31'40", in SE¼SW¼ sec.18., T.9 N., R.5 W., St. Stevens Meridian, Wayne County, Hydrologic Unit 03170002, county road, 8 mi northeast of Waynesboro.                                                                                      | 457                 | 1985                                  | 9-18-85      | 16.8              |
| 02480240                                                                               | Bluff Creek tributary at Larue, MS   | Lat 30°37'22", long 88°49'17", in SE¼ sec.7, T.5 S., R.8 W., St. Stephens Meridian, Jackson County, Hydrologic Unit 03170006, on Biloxi Road, 1.5 mi east of Larue.                                                                                             | 11                  | 1985                                  | 09-20-85     | 0.30              |
| BILOXI RIVER BASIN                                                                     |                                      |                                                                                                                                                                                                                                                                 |                     |                                       |              |                   |
| 02481000                                                                               | Biloxi River near Lyman, MS          | Lat 30°29'18", long 89°02'09", in SE¼SE¼ sec.25, T.6 S., R.11 W., St. Stephens Meridian, Harrison County, Hydrologic Unit 03170009, on downstream side of left pier of bridge on county road, 1.2 mi downstream from Little Biloxi River, 4.6 mi east of Lyman. | 251                 | 1965-85*                              | 9-20-85      | 20.0              |
| PEARL RIVER BASIN                                                                      |                                      |                                                                                                                                                                                                                                                                 |                     |                                       |              |                   |
| 02482290                                                                               | Standing Pine Creek near Freeny, MS  | Lat 32°42'26", long 89°27'24", in NE¼NE¼ sec.22, T.10 N., R.8 E., Choctaw Meridian, Leake County, Hydrologic Unit 03180001, 1.3 mi east of Freeny on State Highway 488.                                                                                         | 57.3                | 1958, 1960, 1962, 1970-71, 1985       | 9-19-85      | 14.5              |

See footnotes at end of table.

Discharge measurements made at low-flow partial-record stations during water year 1985

| Discharge measurements made at low-flow partial-record stations during water year 1985 |                                            |                                                                                                                                                                                 |                                  |                                                      | Measurements |                                |
|----------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------|--------------|--------------------------------|
| Station No.                                                                            | Station name                               | Location                                                                                                                                                                        | Drainage area (mi <sup>2</sup> ) | Period of record                                     | Date         | Discharge (ft <sup>3</sup> /s) |
| PEARL RIVER BASIN--Continued                                                           |                                            |                                                                                                                                                                                 |                                  |                                                      |              |                                |
| 02483800                                                                               | Yockanookany River at McCool, MS           | Lat 33°12'10", long 89°21'11", in NE¼SW¼ sec.34, T.16 N., R.9 E., Choctaw Meridian, Attala County, Hydrologic Unit 03180001, State Highway 411, 0.2 mi west of McCool.          | 133                              | 1965, 1985                                           | 9-20-85      | 6.81                           |
| 02486650                                                                               | Steen Creek near Florence, MS              | Lat 32°06'48", long 90°11'21", in SW¼ sec.10, T.3 N., R.1 E., Choctaw Meridian, Rankin County, Hydrologic Unit 03180002, on county road, 5.0 mi southwest of Florence.          | 82.1                             | 1954-56, 1985                                        | 9-23-85      | 9.31                           |
| 02486997                                                                               | Little Limestone Creek near Union, MS      | Lat 31°54'39", long 90°06'17", in NW¼ sec.21, T.1 N., R.2 E., Choctaw Meridian, Simpson County, Hydrologic Unit 03180002, on county road, 2.2 mi northwest of Union.            | 1.9                              | 1985                                                 | 9-20-85      | 2.03                           |
| 02487287                                                                               | Purvis Creek near Puckett, MS              | Lat 32°06'39", long 89°43'51", in SE¼ sec.12, T.3 N., R.5 E., Choctaw Meridian, Rankin County, Hydrologic Unit 03180002, on State Road 13, 3.5 mi northeast of Puckett.         | 29.8                             | 1985                                                 | 9-23-85      | 2.87                           |
| 02487760                                                                               | Strong River near Rockport, MS             | Lat 31°50'44", long 90°05'34", in NW¼SW¼ sec.11, T.10 N., R.21 W., Choctaw Meridian, Simpson County, Hydrologic Unit 03180002, on county road, 2.8 mi south of Union.           | 678                              | 1964, 1970, 1985                                     | 9-20-85      | 119                            |
| 02488350                                                                               | Fair River near Monticello, MS             | Lat 31°37'04", long 90°07'48", in SE¼ sec.31, T.8 N., R.11 E., Washington Meridian, Lawrence County, Hydrologic Unit 03180003, on State Highway 27, 4.5 mi north of Monticello. | 104                              | 1955-56, 1959-60, 1963, 1966-67, 1969, 1970-73, 1985 | 9-20-85      | 37.6                           |
| 02488351                                                                               | Bear Creek at Wanilla, MS                  | Lat 31°38'16", long 90°08'00", in NE¼ sec.30, T.8 N., R.11 E., Washington Meridian, Lawrence County, Hydrologic Unit 03180003, on State Highway 27, 6 mi north of Monticello.   | 25.1                             | 1966-67, 1985                                        | 9-20-85      | 1.57                           |
| 02490448                                                                               | East Fork Topisaw Creek near Pricedale, MS | Lat 31°19'34", long 90°18'07", in NW¼SE¼ sec.9, T.4 N., R.9 E., Washington Meridian, Pike County, Hydrologic Unit 03180005, on county road, 3.5 mi north of Pricedale.          | 57.6                             | 1985                                                 | 09-19-85     | 17.8                           |
| 02490449                                                                               | West Fork Topisaw Creek near Pricedale, MS | Lat 31°19'10", long 90°19'12", in S¼ sec.17, T.4 N., R.9 E., Washington Meridian, Pike County, Hydrologic Unit 03180005, on county road 0.1 mi north of Felders Campground.     | 43.4                             | 1985                                                 | 9-19-85      | 17.5                           |
| 02490450                                                                               | Topisaw Creek at Pricedale, MS             | Lat 31°17'12", long 90°18'00", in NE¼ sec.28, T.4 N., R.9 E., Washington Meridian, Pike County, Hydrologic Unit 03180005, on State Highway 44, 0.25 mi west of Pricedale.       | 110                              | 1968-69, 1973, 1985                                  | 9-19-85      | 54.2                           |
| 02490479                                                                               | Leatherwood Creek near Kioto, MS           | Lat 31°12'18", long 90°15'24", in SW¼ sec.24, T.3 N., R.9 E., Washington Meridian, Walthall County, Hydrologic Unit 03180005, on county road, 3 mi north of Kioto.              | 30.6                             | 1966-67, 1973, 1985                                  | 9-20-85      | 8.29                           |

See footnotes at end of table.

## DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at low-flow partial-record stations during water year 1985

| Discharge measurements made at low-flow partial-record stations during water year 1985 |                                             |                                                                                                                                                                                                                                            |                                  |                                                | Measurements |                                |
|----------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------|--------------|--------------------------------|
| Station No.                                                                            | Station name                                | Location                                                                                                                                                                                                                                   | Drainage area (mi <sup>2</sup> ) | Period of record                               | Date         | Discharge (ft <sup>3</sup> /s) |
| MISSISSIPPI RIVER BASIN                                                                |                                             |                                                                                                                                                                                                                                            |                                  |                                                |              |                                |
| 07029267                                                                               | Hatchie River near Kossuth, MS              | Lat 34°49'06", long 88°43'46", in SW¼ sec.13, T.3 S., R.5 E., Chickasaw Meridian, Alcorn County, Hydrologic Unit 08010207, on State Highway 2, 6 mi southwest of Kossuth.                                                                  | 130                              | 1985                                           | 9-17-85      | 24.7                           |
| 070292784                                                                              | Tuscumbia River Canal near Biggersville, MS | Lat 34°50'27", long 88°30'56", in N¼ sec.12, T.3 S., R.7 E., Chickasaw Meridian, Alcorn County, Hydrologic Unit 08010207, on county road, 2.4 mi east of Biggersville.                                                                     | ---                              | 1985                                           | 9-17-85      | 10.5                           |
| YAZOO RIVER BASIN                                                                      |                                             |                                                                                                                                                                                                                                            |                                  |                                                |              |                                |
| 07275530                                                                               | Peters Creek near Batesville, MS            | Lat 34°12'50", long 89°58'53", in NW¼SW¼ sec.18, T.27 N., R.3 E., Chickasaw Meridian, Panola County, Hydrologic Unit 08030201, on county road, 0.8 mi west of Pope.                                                                        | 79.1                             | 1985                                           | 9-19-85      | 11.2                           |
| 07277200                                                                               | Camp Creek near Lewisburg, MS               | Lat 34°51'37", long 89°53'00", in SE¼SE¼ sec.36, T.2 S., R.7 W., Chickasaw Meridian, DeSoto County, Hydrologic Unit 08030204, 3 mi west of Lewisburg, 6 mi upstream from confluence with Coldwater River, and 6.8 mi northeast of Hemando. | 55.6                             | 1975, 1985                                     | 9-19-85      | 9.42                           |
| 07277730                                                                               | Senatobia Creek near Senatobia, MS          | Lat 34°37'00", long 89°56'33", in center of sec.28, T.5 S., R.7 W., Chickasaw Meridian, Tate County, Hydrologic Unit 08030204, at bridge on State Highway 4, 0.5 mi east of Senatobia.                                                     | 64.6                             | 1953, 1955-57, 1970, 1974, 1985                | 9-19-85      | 9.42                           |
| 07279610                                                                               | Arkabutla Creek near Cottonville, MS        | Lat 34°38'34", long 90°11'08", in SW¼SE¼ sec.18, T.5 S., R.9 W., Chickasaw Meridian, Tate County, Hydrologic Unit 08030204, on county road, 0.7 mi south of Cottonville.                                                                   | 2100                             | 1985                                           | 9-19-85      | 10.2                           |
| 07279647                                                                               | Strayhorn Creek near Savage, MS             | Lat 34°36'16", long 90°12'25", in NE¼SW¼ sec.36, T.5 S., R.10 W., Chickasaw Meridian, Tate County, Hydrologic Unit 08030204, on State Highway 3, 3.5 mi west of Strayhorn, 0.4 mi east of confluence with Arkabutla Creek.                 | 48.4                             | 1975, 1985                                     | 09-19-85     | .47                            |
| 07280400                                                                               | Tillatoba Creek at Charleston, MS           | Lat 33°59'59", long 90°03'55", in NW¼ sec.35, T.25 N., R.2 E., Choctaw Meridian, Tallahatchie County, Hydrologic Unit 08030202, at bridge on unnumbered State Highway, 0.5 mi above mouth, 0.12 mi south of Charleston.                    | 61.8                             | 1909, 1953, 1955-56, 1959, 1973, 1975-78, 1985 | 9-19-85      | 13.0                           |
| 07281960                                                                               | Yalobusha River at Vardaman, MS             | Lat 33°51'58", long 89°10'22", on line between secs.14 and 15, T.14 S., R.1 E., Chickasaw Meridian, Calhoun County, Hydrologic Unit 08030204, on county road, 0.6 mi southeast of Vardaman.                                                | 86.3                             | 1985                                           | 9-18-85      | .32                            |
| 07283200                                                                               | Brushy Creek near Bruce, MS                 | Lat 34°01'40", long 89°24'52", in NW¼ sec.21, T.12 S., R.2 W., Chickasaw Meridian, Calhoun County, Hydrologic Unit 08030205, on State Highway 32, 6.1 mi northwest of Bruce.                                                               | ---                              | 1952, 1954-56, 1983, 1985                      | 9-18-85      | 2.18                           |

See footnotes at end of table.

## DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Discharge measurements made at low-flow partial-record stations during water year 1985

| Discharge measurements made at low-flow partial-record stations during water year 1985 |                                   |                                                                                                                                                                                                                 |                                  |                                                               | Measurements |                                |
|----------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------------|--------------|--------------------------------|
| Station No.                                                                            | Station name                      | Location                                                                                                                                                                                                        | Drainage area (mi <sup>2</sup> ) | Period of record                                              | Date         | Discharge (ft <sup>3</sup> /s) |
| YAZOO RIVER BASIN--Continued                                                           |                                   |                                                                                                                                                                                                                 |                                  |                                                               |              |                                |
| 07285880                                                                               | O'Neal Creek near Tinsley, MS     | Lat 32°44'58", long 90°29'15", on line between secs.34 (T.11 N., R.3 W.) and 3 (T.10 N., R.3 W.), Choctaw Meridian, Yazoo County, Hydrologic Unit 08030206, on State Highway 3, 4 mi northeast of Tinsley.      | 30                               | 1985                                                          | 9-17-85      | 2.51                           |
| 07287150                                                                               | Abiacha Creek near Pine Bluff, MS | Lat 33°20'24", long 90°09'05", in SE¼NW¼ sec.13, T.17 N., R.1 E., Choctaw Meridian, Carroll County, Hydrologic Unit 08030206, on county road, 0.4 mi southeast of Pine Bluff.                                   | 95.0                             | 1985                                                          | 9-18-85      | 26.0                           |
| 07287480                                                                               | Piney Creek near Yazoo City, MS   | Lat 32°54'25", long 90°22'58", in NE¼ sec.10, T.12 N., R.2 W., Choctaw Meridian, Yazoo County, Hydrologic Unit 08030206, 3 mi upstream from mouth, and 3 mi northeast of Yazoo City.                            | 70.0                             | 1954, 1967, 1985                                              | 9-17-85      | 3.28                           |
| 07287430                                                                               | Tesheva Creek near Eden, MS       | Lat 32°58'40", long 90°17'55", in NE¼NE¼ sec.16, T.13 N., R.1 W., Choctaw Meridian, Yazoo County, Hydrologic Unit 08030206, on county road, 1.3 mi east of Eden.                                                | 59.2                             | 1985                                                          | 9-17-85      | 1.76                           |
| 07287550                                                                               | Short Creek near Yazoo City, MS   | Lat 32°48'56", long 90°26'56", in SW¼NW¼ sec.7, T.11 N., R.2 W., Choctaw Meridian, Yazoo County, Hydrologic Unit 08030206, on State Highway 3, 1.8 mi southwest of Yazoo City.                                  | 36.6                             | 1985                                                          | 09-17-85     | 1.94                           |
| BIG BLACK RIVER BASIN                                                                  |                                   |                                                                                                                                                                                                                 |                                  |                                                               |              |                                |
| 07289340                                                                               | Zilpha Creek near Hesterville, MS | Lat 33°14'02", long 89°41'43", in SW¼NW¼ sec.21, T.16 N., R.6 E., Choctaw Meridian, Attala County, Hydrologic Unit 08060201, on county road, 7 mi north-northwest of Hesterville.                               | 98.2                             | 1985                                                          | 9-18-85      | 6.47                           |
| 07289430                                                                               | Apookta Creek near Possumneck, MS | Lat 33°06'53", long 89°46'26", in SW¼NE¼ sec.34, T.15 N., R.5 E., Choctaw Meridian, Attala County, Hydrologic Unit 08060201, on county road, 3 mi southwest of Possumneck.                                      | 93                               | 1985                                                          | 9-18-85      | 8.10                           |
| 07289466                                                                               | Seneasha Creek near Pickens, MS   | Lat 32°55'06", long 89°53'13", in NE¼ sec.4, T.12 N., R.4 E., Choctaw Meridian, Attala County, Hydrologic Unit 08060201, on county road, 0.75 mi northeast of Pickens.                                          | 102                              | 1966, 1968, 1971, 1975, 1985                                  | 9-18-85      | 7.85                           |
| 07289530                                                                               | Doaks Creek near Canton, MS       | Lat 32°43'55", long 89°59'37", in NE¼ sec.9, T.10 N., R.3 E., Choctaw Meridian, Madison County, Hydrologic Unit 08060202, at bridge on U.S. Highway 51, 3.5 mi upstream from mouth, and 8.5 mi north of Canton. | 164                              | 1943, 1950, 1952-54, 1956, 1958-60, 1965-66, 1970, 1982, 1985 | 9-18-85      | 18.2                           |
| 07290006                                                                               | Clear Creek at Bovina, MS         | Lat 32°21'26", long 90°43'25", in NE¼NE¼ sec.20, T.16 N., R.5 E., Choctaw Meridian, Warren County, Hydrologic Unit 08060202, on Interstate 20, 2 mi east of Bovina.                                             | 36.0                             | 1953, 1958, 1966-67, 1970, 1973, 1985                         | 9-17-85      | 7.06                           |

See footnotes at end of table.



## DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at low-flow partial-record stations during water year 1985

| Discharge measurements made at low-flow partial-record stations during water year 1985 |                                           |                                                                                                                                                                                                                                             |                                  |                                 | Measurements |                                |
|----------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------|--------------|--------------------------------|
| Station No.                                                                            | Station name                              | Location                                                                                                                                                                                                                                    | Drainage area (mi <sup>2</sup> ) | Period of record                | Date         | Discharge (ft <sup>3</sup> /s) |
| BAYOU PIERRE RIVER BASIN                                                               |                                           |                                                                                                                                                                                                                                             |                                  |                                 |              |                                |
| 07290350                                                                               | Turkey Creek near Dentville, MS           | Lat 31°56'55", long 90°31'17", in SE½SE½ sec.5, T.1 N., R.3 W., Choctaw Meridian, Copiah County, Hydrologic Unit 08060203, on county road, 2 mi east of Dentville.                                                                          | 39.8                             | 1953-54, 1956, 1959, 1973, 1985 | 9-17-85      | 8.42<br>1971,                  |
| 07290420                                                                               | Foster Creek near Smyrna, MS              | Lat 31°52'31", long 90°37'22", in SE½SE½ sec.32, T.1 N., R.4 W., Choctaw Meridian, Copiah County, Hydrologic Unit 08060203, on county road, 6.5 mi west of Smyrna.                                                                          | 49.8                             | 1971, 1985                      | 9-17-85      | 1.86                           |
| 07290549                                                                               | Tallahalla Creek near Utica, MS           | Lat 32°07'59", long 90°32'37", in SW¼NW¼ sec.6, T.3 N., R.3 W., Choctaw Meridian, Hinds County, Hydrologic Unit 08060203, on county road, 4.7 mi northeast of Utica.                                                                        | 57.0                             | 1985                            | 9-17-85      | .14                            |
| 07290670                                                                               | Little Bayou Pierre Creek near Peyton, MS | Lat 31°50'59", long 90°44'43", in S½ sec.7, T.10 N., R.5 E., Washington Meridian, Claiborne County, Hydrologic Unit 08060203, on county road, 3.1 mi northeast of Peyton.                                                                   | 45.1                             | 1985                            | 9-17-85      | 3.0                            |
| 07290688                                                                               | Clarks Creek near Peyton, MS              | Lat 31°51'32", long 90°50'48", on line between secs.7 and 8, T.10 N., R.4 E., Washington Meridian, Claiborne County, Hydrologic Unit 08060203, at bridge on county road, 2.5 mi west of Peyton.                                             | 59.4                             | 1962-63, 1978, 1985             | 09-17-85     | 2.68                           |
| HOMOCHITTO RIVER BASIN                                                                 |                                           |                                                                                                                                                                                                                                             |                                  |                                 |              |                                |
| 07291800                                                                               | Middleton Creek near Meadville, MS        | Lat 31°24'10", long 90°54'48", in center of sec.22, T.5 N., R.3 E., Washington Meridian, Franklin County, Hydrologic Unit 08060205, on county road, 5.0 mi south of Meadville, and at the mouth.                                            | 27.7                             | 1985                            | 9-18-86      | 5.58                           |
| BUFFALO RIVER BASIN                                                                    |                                           |                                                                                                                                                                                                                                             |                                  |                                 |              |                                |
| 07294900                                                                               | Buffalo River near Centreville, MS        | Lat 31°08'45", long 91°11'30", in SW½ sec.11, T.2 N., R.1 W., Washington Meridian, Wilkinson County, Hydrologic Unit 08060206, at end of county road, 7 mi north-east of Woodville, and 5 mi east of U.S. Highway 65, and State Highway 61. | 493                              | 1985                            | 9-18-85      | 13.8                           |
| TANGIPAHOA RIVER BASIN                                                                 |                                           |                                                                                                                                                                                                                                             |                                  |                                 |              |                                |
| 07375234                                                                               | Tangipahoa River near McComb, MS          | Lat 31°12'40", long 90°31'20", in center of sec.20, T.3 N., R.7 E., Washington Meridian, Pike County, Hydrologic Unit 08070205, on State Highway 24, 3.1 mi west of McComb.                                                                 | 46.8                             | 1985                            | 9-19-85      | 16.8                           |
| 07375285                                                                               | Bala Chitto Creek near Osyka, MS          | Lat 31°01'44", long 90°24'04", on between secs.21 and 28, T.1 N., R.8 E., Washington Meridian, Pike County, Hydrologic Unit, 08070205, on county road, 4.0 mi northeast of Osyka.                                                           | 46.5                             | 1985                            | 9-19-85      | 10.5                           |
| TICKFAW RIVER BASIN                                                                    |                                           |                                                                                                                                                                                                                                             |                                  |                                 |              |                                |
| 07375750                                                                               | Tickfaw River at Gillsburg, MS            | Lat 31°01'22", long 90°38'48", in SW¼NW¼ sec.30, T.1 N., R.6 E., Washington Meridian, Amite County, Hydrologic Unit 08070203, on State Highway 584, 0.4 mi east of Gillsburg.                                                               | 43.6                             | 1985                            | 9-19-85      | 14.8                           |

See footnotes at end of table.

## DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Discharge measurements made at low-flow partial-record stations during water year 1985

| Discharge measurements made at low-flow partial-record stations during water year 1985 |                                         |                                                                                                                                                                                                                                           |                                  |                              | Measurements |                                |
|----------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------|--------------|--------------------------------|
| Station No.                                                                            | Station name                            | Location                                                                                                                                                                                                                                  | Drainage area (mi <sup>2</sup> ) | Period of record             | Date         | Discharge (ft <sup>3</sup> /s) |
| AMITE RIVER BASIN                                                                      |                                         |                                                                                                                                                                                                                                           |                                  |                              |              |                                |
| 07376640                                                                               | East Fork Amite River at Mars Hill, MS  | Lat 31°18'25", long 90°38'03", in NE¼NE¼ sec.19, T.4 N., R.6 E., Washington Meridian, Amite County, Hydrologic Unit 08070202, 0.3 mi west of Mars Hill, 200 ft downstream of confluence of Pumpkin Patch Creek and East Fork Amite River. | 39.1                             | 1982, 1985                   | 9-18-85      | 14.9                           |
| 07376648                                                                               | East Fork Amite River near Thompson, MS | Lat 31°12'17", long 90°40'21", in S¼ sec.23, T.3 N., R.5 E., Washington Meridian, Amite County, Hydrologic Unit 08070202, at County Highway 1.5 mi north of State Highway 24, 3 mi southwest of Thompson.                                 | 86.5                             | 1959, 1964, 1968, 1973, 1985 | 9-18-85      | 38.2                           |

a Approximately.

\* Also a crest-stage partial-record station.

## DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

## Discharge measurements at 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 1985

| Discharge measurements made at special study and miscellaneous sites during year 1985 |                                              |                                                                                                                                                                                                                                                                                                                |                                  |                                                    |                                                                         |                                               |
|---------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------|
| Stream                                                                                | Tributary to                                 | Location                                                                                                                                                                                                                                                                                                       | Drainage area (mi <sup>2</sup> ) | Measured previously (water years)                  | Measurements                                                            |                                               |
|                                                                                       |                                              |                                                                                                                                                                                                                                                                                                                |                                  |                                                    | Date                                                                    | Discharge (ft <sup>3</sup> /s)                |
| MOBILE RIVER BASIN                                                                    |                                              |                                                                                                                                                                                                                                                                                                                |                                  |                                                    |                                                                         |                                               |
| 02430014 Mackeys Creek at Minimum Flow Structure at Moore's Mill                      | Tennessee-Tombigbee Waterway (Canal Section) | Lat 34°30'28", long 88°19'30", in SW¼ sec.2, T.7 S., R.9 E., Chickasaw Meridian, Tishomingo County, Hydrologic Unit 03160101, 3.4 mi upstream of Lock E, 1.5 mi along right bank levee access road from old State Highway 4, from Bay Springs Dam to minimum flow structure.                                   | --                               | --                                                 | 07-30-85                                                                | 8.96                                          |
| 02430016 Redbud Creek at Minimum Flow Structure at Moore's Mill                       | Tennessee-Tombigbee Waterway (Canal Section) | Lat 34°29'19", long 88°19'47", on line between secs.10 and 11, T.7 S., R.9 E., Chickasaw Meridian Tishomingo and Prentiss County line, Hydrologic Unit 03160101, 2.7 mi upstream of Lock E, 2.2 mi along right bank levee from old State Highway 4 access gate from Bay Springs Dam to minimum flow structure. | --                               | --                                                 | 7-30-85                                                                 | .83                                           |
| 02433050 Bull Mountain Creek at Minimum Flow Structure near Smithville                | Tennessee-Tombigbee Waterway (Canal Section) | Lat 34°05'36", long 88°24'50", in SE¼NE¼ sec.25, T.11 S., R.8 E., Chickasaw Meridian, Itawamba County, Hydrologic Unit 03160101, 2.8 mi upstream of Lock B.                                                                                                                                                    | --                               | --                                                 | 7-30-85                                                                 | 56.1                                          |
| 02433489 Standifer Creek at Minimum Flow Structure near Amory                         | Tennessee-Tombigbee Waterway (Canal Section) | Lat 34°02'00", long 88°27'50", in NW¼SE¼ sec.16, T.12 S., R.8 E., Chickasaw Meridian, Monroe County, Hydrologic Unit 03160101, 2.3 mi upstream of Lock A, 3.0 mi downstream from Lock B control house.                                                                                                         |                                  |                                                    | 7-30-85                                                                 | 3.62                                          |
| PASCAGOULA RIVER BASIN                                                                |                                              |                                                                                                                                                                                                                                                                                                                |                                  |                                                    |                                                                         |                                               |
| 02471400 Oakohay Creek near Raleigh                                                   | Leaf River                                   | Lat 32°02'50", long 89°34'17", in NE¼NW¼ sec.3, T.2 N., R.7 E., Choctaw Meridian, Smith County, Hydrologic Unit 03170004, at confluence of Roberts Creek, on State Highway 18, 3 mi west of Raleigh.                                                                                                           | 66                               | 1943, 1951, 1952, 1955-57, 1960, 1968, 1971        | 11-29-84, 1-10-85, 2-26-85, 4-11-85, 5-23-85, 6-19-85, 7-31-85, 9-17-85 | 144, 15.3, 1,120, 18.7, 3.25, 2.39, 3.91, .53 |
| 02471405 Two Mile Creek near Raleigh                                                  | Oakohay Creek                                | Lat 32°02'39", long 89°33'03", in SE¼NW¼ sec.2, T.2 N., R.7 E., Choctaw Meridian, Smith County, Hydrologic Unit 03170004, on State Highway 18, 1.5 mi west of Raleigh, 15 mi east of Puckett.                                                                                                                  | 2.58                             | --                                                 | 11-29-84, 1-10-85, 2-26-85, 4-11-85, 6-24-85, 7-31-85, 9-17-85          | 3.38, 3.38, 10.4, 2.05, .31, .35, .34         |
| 02472820 Okatoma Creek at Seminary                                                    | Bowie River                                  | Lat 31°33'45", long 89°30'15", in NE¼ sec.21, T.7 N., R.15 W., St. Stephens Meridian, Covington County, Hydrologic Unit 03170004, on State Highway 590, 0.1 mi west of Seminary.                                                                                                                               | 204                              | 1961, 1972, 1980-84                                | 10-17-84                                                                | 593                                           |
| 02474567 Bogue Homo at Heidelberg                                                     | Leaf River                                   | Lat 31°54'08", long 89°00'38", in NW¼NW¼, sec.30, T.1 N., R.12 E., Choctaw Meridian, Jasper County, Hydrologic Unit 03170005, on State Highway 528, 0.6 mi west of Heidelberg.                                                                                                                                 | 16.4                             | --                                                 | 11-29-84, 1-9-85, 2-26-85, 4-15-85, 5-24-85, 6-24-85                    | 13.2, 4.70, 147, 9.34, 1.21, .13              |
| 02479100 Black Creek near Purvis                                                      | Pascagoula River                             | Lat 31°11'24", long 89°22'36", in SW¼ sec.26, T.3 N., R.14 W., St. Stephens Meridian, Lamar County, Hydrologic Unit 03170007, at bridge on U.S. Highway 11, 1.2 mi downstream from Sandy Run Creek, and 4 mi northeast of Purvis.                                                                              | 171                              | 1957-59, 1961, 1963, 1967, 1972, 1975-77, 1979-80, | 9-20-85                                                                 | 45.3                                          |

## DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Discharge measurements made at special study and miscellaneous sites during water year 1985

| Discharge measurements made at special study and miscellaneous sites during water year 1985 |                  |                                                                                                                                                                                                                                                                               |                                        |                                                          |                                                                                         |                                                          |
|---------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------|
| 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)                        |
| PASCAGOULA RIVER BASIN--Continued                                                           |                  |                                                                                                                                                                                                                                                                               |                                        |                                                          |                                                                                         |                                                          |
| 02479105 Little<br>Black Creek<br>near Lumberton                                            | Black Creek      | Lat 31°04'18", long 89°25'16", in<br>SW½SE¼ sec.5, T.1 N., R.14 W.,<br>St. Stephens Meridian, Lamar<br>County, Hydrologic Unit 03170007,<br>on U.S Highway 11, 5.2 mi north of<br>Lumberton.                                                                                  | 27.7                                   | 1955,<br>1963,<br>1966,<br>1973                          | 10- 4-84<br>11-29-84<br>4-24-85<br>8- 7-85                                              | 11.7<br>40.7<br>25.2<br>21.3                             |
| 02479181 Red Creek<br>near Lumberton                                                        | Pascagoula River | Lat 30°59'28", long 89°25'24", in<br>SW¼NW¼ sec.5, T.1 S., R.14 W., St.<br>Stephens Meridian, Lamar County,<br>Hydrologic Unit 03170007, Inter-<br>state 59, 1.0 mi southeast of<br>Lumberton.                                                                                | 31.0                                   | --                                                       | 10- 5-84                                                                                | 2.64                                                     |
| 02479182 Parker<br>Creek near Young                                                         | Red Creek        | Lat 30°58'20", long 89°22'10", in<br>NE½SW¼ sec.11, T.1 S., R.14 W.,<br>St. Stephens Meridian, Pearl<br>River County, Hydrologic Unit<br>03170007, 2.5 mi south of Young,<br>0.3 mi upstream of Red Creek.                                                                    | 11.2                                   | 1982                                                     | 10- 5-84                                                                                | 3.0                                                      |
| 024791825 Unnamed<br>Creek near Young                                                       | Red Creek        | Lat 30°58'18", long 89°21'41", in<br>NE½SE¼ sec.11, T.1 S., R.14 W.,<br>St. Stephens Meridian, Pearl<br>River County, Hydrologic Unit<br>03170007, 2.2 mi southwest of<br>Elder Ridge, 0.5 mi upstream of<br>Red Creek.                                                       | 3.42                                   | --                                                       | 10- 5-84                                                                                | .18                                                      |
| 024791834 Red Creek<br>near Carnes                                                          | Pascagoula River | Lat 30°55'04", long 89°19'10", in<br>NW¼ sec.32, T.1 S., R.13 W., St.<br>Stephens Meridian, Forrest County,<br>Hydrologic Unit 03170007, on<br>county road, 6.25 mi southwest of<br>Carnes.                                                                                   | 99.5                                   | --                                                       | 10- 5-84<br>11-28-84<br>11-29-84<br>3-22-85<br>4-24-85<br>5-15-85<br>6-19-85<br>8- 8-85 | 14.2<br>386<br>202<br>764<br>32.5<br>27.1<br>21.0<br>152 |
| 024791839 Mill<br>Creek near<br>Carnes                                                      | Double Branch    | Lat 30°56'10", long 89°16'51", in<br>NW¼NE¼ sec.27, T.1 S., R.13 W.,<br>St. Stephens Meridian, Forrest<br>County, Hydrologic Unit 03170007,<br>at bridge on county road, 4.25 mi<br>south of Carnes.                                                                          | 4.73                                   | --                                                       | 8-28-85                                                                                 | 1.20                                                     |
| 02479184 Double<br>Branch near<br>Carnes                                                    | Red Creek        | Lat 30°55'54", long 89°16'50", in<br>SE½SW¼ sec.27, T.1 S., R.13 W.,<br>St. Stephens Meridian, Forrest<br>County, Hydrologic Unit 03170007,<br>at county road 4.4 mi southwest<br>of Carnes.                                                                                  | 9.55                                   | --                                                       | 3-22-85<br>8-27-85                                                                      | 77.4<br>4.39                                             |
| PEARL RIVER BASIN                                                                           |                  |                                                                                                                                                                                                                                                                               |                                        |                                                          |                                                                                         |                                                          |
| 02486500 Pearl<br>River at Byram                                                            | Gulf of Mexico   | Lat 32°10'36", long 90°14'35", in<br>NW¼ sec.19, T.4 N., R.1 E.,<br>Choctaw Meridian, at Hinds-<br>Rankin County line at bridge on<br>county road between Byram and<br>Florence, 0.2 mi southwest of<br>old Byram, 7.5 mi west of<br>Florence, and 12 mi south of<br>Jackson. | 3,430                                  | 1939<br>1964,<br>1972,<br>1976-78,<br>1984               | 11-15-84<br>12-17-84<br>2- 6-85<br>5- 3-85<br>6-12-85                                   | 1,850<br>1,930<br>20,200<br>5,260<br>433                 |
| 02488650 Silver<br>Creek near Arm                                                           | Pearl River      | Lat 31°30'58", long 90°02'06", in<br>N¼ sec.5, T.6 N., R.12 E., St.<br>Stephens Meridian, Lawrence<br>County, Hydrologic Unit 03180003,<br>on county road, 4 mi southeast of<br>Monticello, and 2 mi northwest of<br>Arm.                                                     | 163.1                                  | --                                                       | 12-11-84                                                                                | 197                                                      |
| 02489000 Pearl<br>River near<br>Columbia                                                    | Gulf of Mexico   | Lat 31°14'18", long 89°50'49", in<br>E¼ sec.7, T.3 N., R.18 W., St.<br>Stephens Meridian, Marion County,<br>Hydrologic Unit 03180004, on U.S.<br>Highway 98, 1.5 mi southwest of<br>Columbia.                                                                                 | 5,720                                  | 1928-54,<br>1955,<br>1958,<br>1960-64,<br>1972,<br>1974, | 9-10-85                                                                                 | 1,510                                                    |

## DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at special study and miscellaneous sites during water year 1985

| Discharge measurements made at special study and miscellaneous sites during water year 1985 |                      |                                                                                                                                                                                                                                                                                 |                                        |                                             |                                                                                                    |                                                                   |
|---------------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| 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)                                 |
| PEARL RIVER BASIN--Continued                                                                |                      |                                                                                                                                                                                                                                                                                 |                                        |                                             |                                                                                                    |                                                                   |
| 024892685 Clear<br>Creek near<br>Baxterville                                                | Pearl River          | Lat 31°05'47", long 89°37'17", in<br>NE½NE½ sec.32, T.2 N., R.16 W.,<br>St. Stephens Meridian, Lamar County,<br>Hydrologic Unit 03180004, 2 mi<br>northwest of Baxterville.                                                                                                     | 1.80                                   | 1982                                        | 10- 4-84                                                                                           | 1.47                                                              |
| 02489269 Unnamed<br>Creek near<br>Baxterville                                               | Clear Creek          | Lat 31°04'14", long 89°38'26", in<br>SE½SE½ sec.6, T.1 N., R.16 W., St.<br>Stephens Meridian, Lamar County,<br>Hydrologic Unit 03180004, 3 mi south-<br>west of Baxterville, 0.1 mi upstream<br>of Clear Creek.                                                                 | 2.44                                   | 1982                                        | 10- 4-84                                                                                           | .54                                                               |
| 024892693 Clear<br>Creek south-<br>west of<br>Baxterville                                   | Pearl River          | Lat 33°03'36", long 89°39'26", in<br>NE½NE½ sec.7, T.1 N., R.16 W., St.<br>Stephens Meridian, Marion County,<br>Hydrologic Unit 03180004, at bridge<br>on county road, 3 mi southwest of<br>Baxterville.                                                                        | 17.6                                   | --                                          | 10- 4-84                                                                                           | 7.63                                                              |
| 024892695 Clear<br>Creek near<br>Pinebur                                                    | Pearl River          | Lat 31°03'37", long 89°40'55", in<br>NE½SW½ sec.11, T.1 N., R.17 W.,<br>St. Stephens Meridian, Marion<br>County, Hydrologic Unit 03180004,<br>5 mi south of Pinebur, 5 mi south-<br>west of Baxterville, 0.2 mi up-<br>stream of confluence of Clear and<br>and Crooked Creeks. | 27.0                                   | 1982                                        | 10- 4-84                                                                                           | 9.44                                                              |
| 02489270 Clear<br>Creek near<br>Sandy Hook                                                  | Pearl River          | Lat 31°02'16", long 89°44'27", in<br>NE½NE½ sec.19, T.1 N., R.17 W., St.<br>Stephens Meridian, Marion County,<br>Hydrologic Unit 03180004, on State<br>Highway 43, 3.5 mi east of Sandy<br>Hook.                                                                                | 41.0                                   | 1966,<br>1967,<br>1971,<br>1972             | 10- 3-84<br>10-23-84<br>11-28-84<br>3-21-85<br>3-21-85<br>5-13-85<br>7-25-85<br>8- 6-85<br>8-27-85 | 14.5<br>116<br>39.6<br>569<br>246<br>21.1<br>49.5<br>13.2<br>17.7 |
| 02489273 Pearl<br>River tributary<br>near Sandy<br>Hook                                     | Pearl River          | Lat 31°00'26", long 89°43'28", in<br>NE½NE½ sec.32, T.1 N., R.17 W., St.<br>Stephens Meridian, Marion County,<br>Hydrologic Unit 03180004, on State<br>Highway 43, 5 mi southeast of Sandy<br>Hook.                                                                             | 13.7                                   | 1965                                        | 10- 3-84<br>3-21-85<br>3-22-85<br>4-24-85<br>8- 7-85                                               | 4.78<br>104<br>41.1<br>20.8<br>5.79                               |
| 02490246 West<br>Bogue Chitto<br>near Zetus                                                 | Bogue Chitto         | Lat 31°33'28", long 90°29'42", in<br>NW½SW½ sec.22, T.7 N., R.7 E.,<br>Washington Meridian, Lincoln County,<br>Hydrologic Unit 03180005, at bridge<br>on county road, 2 mi east of Zetus.                                                                                       | 18.5                                   | 1984                                        | 9-12-85                                                                                            | .03                                                               |
| 02490248 Doolittle<br>Creek near Zetus                                                      | Bogue Chitto         | Lat 31°33'08", long 90°30'06", in<br>NW½NE½ sec.28, T.7 N., R.7 E.,<br>Washington Meridian, Lincoln County,<br>Hydrologic Unit 03180005, 1.8 mi<br>southeast of Zetus.                                                                                                          | 2.08                                   | 1984                                        | 9-12-85                                                                                            | .38                                                               |
| 02490900 Bogue<br>Chitto near<br>Lehr                                                       | Pearl River          | Lat 31°01'22", long 90°12'33", in<br>SE½NE½ sec.29, T.1 N., R.10 E.,<br>Washington Meridian, Walthall<br>County, Hydrologic Unit 03180005,<br>at 1.5 mi west of Lehr.                                                                                                           | 785                                    | 1969,<br>1971,<br>1976,<br>1979,<br>1982-84 | 9-10-85                                                                                            | 590                                                               |
| MISSISSIPPI RIVER BASIN                                                                     |                      |                                                                                                                                                                                                                                                                                 |                                        |                                             |                                                                                                    |                                                                   |
| 07030361 Wolf<br>River on<br>county road<br>near Brody                                      | Mississippi<br>River | Lat 34°54'35", long 89°02'50", in<br>NE½SW½ sec.13, T.2 S., R.2 E.,<br>Chickasaw Meridian, Benton County,<br>Hydrologic Unit 08010210, on county<br>road, 4 mi southeast of Brody.                                                                                              | 5.80                                   | --                                          | 8-15-85                                                                                            | 2.17                                                              |
| 07030364 Grogg<br>Creek at Canaan                                                           | Wolf River           | Lat 34°55'32", long 89°06'41", in<br>SW½NE½ sec.8, T.2 S., R.2 E.,<br>Chickasaw Meridian, Benton County,<br>Hydrologic Unit 08010210, at double<br>culverts on county road, 1 mi east<br>of Canaan.                                                                             | 14.85                                  | --                                          | 8-15-85                                                                                            | 4.08                                                              |



## DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Discharge measurements made at special study and miscellaneous sites during water year 1985

| Discharge measurements made at special study and miscellaneous sites during water year 1985 |                           |                                                                                                                                                                                                                   |                                  |                                   |                    |                                |
|---------------------------------------------------------------------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------|--------------------|--------------------------------|
| Stream                                                                                      | Tributary to              | Location                                                                                                                                                                                                          | Drainage area (mi <sup>2</sup> ) | Measured previously (water years) | Measurements       |                                |
|                                                                                             |                           |                                                                                                                                                                                                                   |                                  |                                   | Date               | Discharge (ft <sup>3</sup> /s) |
| YAZOO RIVER BASIN                                                                           |                           |                                                                                                                                                                                                                   |                                  |                                   |                    |                                |
| 07268200 Fice Creek at Etta                                                                 | Little Tallahatchie River | Lat 34°28'16", long 89°14'21", in NE¼SW¼ sec.18, T.7 S., R.1 E., Chickasaw Meridian, Union County, Hydrologic Unit 08030201, at culvert on State Highway 30, 0.75 mi west of Etta.                                | 9.18                             | 1952-56, 1959, 1960, 1970         | 8-14-85            | .84                            |
| 07268750 Wolf Creek near Etta                                                               | Little Tallahatchie River | Lat 34°29'38", long 89°19'03", in NE¼NE¼ sec.8, T.7 S., R.1 W. Chickasaw Meridian, Lafayette County, Hydrologic Unit 08030201, at bridge on county road, 5 mi west-northwest of Etta.                             | 7.14                             | --                                | 8-14-85            | .65                            |
| 07269400 Shelby Creek near Gravestown                                                       | Tippah Creek              | Lat 34°45'05", long 89°06'09", in SW¼NW¼ sec.9, T.4 S., R.2 E., Chickasaw Meridian, Benton County, Hydrologic Unit 08030201, 7.2 mi southeast of Ashland.                                                         | 19.0                             | --                                | 8-15-85            | 7.17                           |
| 07269650 Curtis Creek near Ashland                                                          | Tippah Creek              | Lat 34°45'42", long 89°07'02", in SE¼SW¼ sec.5, T.4 S., R.2 E., Chickasaw Meridian, Benton County, Hydrologic Unit 08030201, at bridge on State Highway 4, 6.0 mi southeast of Ashland.                           | 5.80                             | --                                | 8-20-85            | 2.48                           |
| 07269700 Yellow Rabbit Creek near Ashland                                                   | Tippah Creek              | Lat 34°45'21", long 89°08'48", in NW¼NE¼ sec.12, T.4 S., R.1 E., Chickasaw Meridian, Benton County, Hydrologic Unit 08030201, at bridge on State Highway 4, 4.5 mi south of Ashland.                              | 16.2                             | 1953, 1955-58, 1962, 1973         | 8-20-85            | 12.8                           |
| 07269790 Rhoden Creek near Pine Grove                                                       | Tippah Creek              | Lat 34°45'22", long 89°10'10", in NE¼NW¼ sec.11, T.4 S., R.1 E., Chickasaw Meridian, Benton County, Hydrologic Unit 08030201, at bridge on State Highway 4, 4.3 mi south of Ashland.                              | 7.73                             | --                                | 8-21-85            | 10.0                           |
| 07269815 Snow Creek near Pine Grove                                                         | Tippah River              | Lat 34°43'23", long 89°14'06", in SW¼NE¼ sec.19, T.4 S., R.1 E., Chickasaw Meridian, Benton County, Hydrologic Unit 08030201, at bridge on county road, 0.3 mi upstream of mouth, 3.5 mi northwest of Pine Grove. | 48.68                            | --                                | 8-21-85<br>9-19-85 | 74.8<br>53.8                   |
| 07269850 Chilli Creek near Pine Grove                                                       | Tippah River              | Lat 34°42'25", long 89°13'41", in SW¼NW¼ sec.29, T.4 S., R.1 E., Chickasaw Meridian, Benton County, Hydrologic Unit 08030201, at bridge on county road, 3 mi west of Pine Grove.                                  | 18.86                            | --                                | 8-15-85            | 3.71                           |
| 07269878 Oaklimeter Creek near Hickory Flat                                                 | Tippah River              | Lat 34°37'22", long 89°08'59", in SE¼NW¼ sec.25, T.5 S., R.1 E., Chickasaw Meridian, Benton County, Hydrologic Unit 08030201, at bridge on county road, 2 mi northeast of Hickory Flat.                           | 11.18                            | --                                | 8-21-85            | 1.44                           |
| 07269879 Pechahalee Creek near Hickory Flat                                                 | Oaklimeter Creek          | Lat 34°37'38", long 89°13'51", in SE¼SE¼ sec.19, T.5 S., R.1 E., Chickasaw Meridian, Benton County, Hydrologic Unit 08030201, at bridge on county road, 2.5 mi west-northwest of Hickory Flat.                    | 7.05                             | --                                | 8-15-85            | .26                            |
| 07270200 Mills Creek near Bethlehem                                                         | Little Tallahatchie Canal | Lat 34°31'30", long 89°15'01", in NW¼NE¼ sec.36, T.6 S., R.1 W., Chickasaw Meridian, Marshall County Hydrologic Unit 08030201, at wooden bridge on county road, 1 mi south of Cornersville.                       | 20.24                            | --                                | 8-14-85            | 2.10                           |

## DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at special study and miscellaneous sites during water year 1985

| Discharge measurements made at special study and miscellaneous sites during water year 1985 |                      |                                                                                                                                                                                               |                                        |                                            |              |                                   |
|---------------------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------|--------------|-----------------------------------|
| 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) |
| MISSISSIPPI RIVER BASIN                                                                     |                      |                                                                                                                                                                                               |                                        |                                            |              |                                   |
| 07289540 Big Black<br>River at Canton                                                       | Mississippi<br>River | Lat 32°42'26", long 90°05'40", in<br>SW½SE½ sec.16, T.10 N., R.2 E.,<br>Choctaw Meridian, Madison County,<br>Hydrologic Unit 08060202, on<br>State Highway 16, 6.8 mi northwest<br>of Canton. | 1,820                                  | 1959                                       | 11-20-85     | 1,310                             |
|                                                                                             |                      |                                                                                                                                                                                               |                                        | 1960,                                      | 1-11-85      | 667                               |
|                                                                                             |                      |                                                                                                                                                                                               |                                        | 1962,                                      | 2-15-85      | 8,670                             |
|                                                                                             |                      |                                                                                                                                                                                               |                                        | 1964,                                      | 3-28-85      | 1,370                             |
|                                                                                             |                      |                                                                                                                                                                                               |                                        | 1966,                                      | 5-10-85      | 4,010                             |
|                                                                                             |                      |                                                                                                                                                                                               |                                        | 1969-73,                                   | 6-17-85      | 519                               |
|                                                                                             |                      |                                                                                                                                                                                               |                                        | 1977,                                      | 8- 2-85      | 311                               |
|                                                                                             |                      |                                                                                                                                                                                               |                                        | 1985                                       | 9-15-85      | 193                               |
| BIG BLACK RIVER BASIN                                                                       |                      |                                                                                                                                                                                               |                                        |                                            |              |                                   |
| 07289582 Bear Creek<br>at Canton                                                            | Big Black River      | Lat 32°36'29", long 90°03'46", in<br>S½ sec.23, T.9 N., R.2 E., Choctaw<br>Meridian, Madison County, Hydrologic<br>Unit 08060202, at bridge on State<br>Highway 22, 1.0 mi west of Canton.    | 87.0                                   | 1952-53                                    | 11-20-84     | 40.6                              |
|                                                                                             |                      |                                                                                                                                                                                               |                                        | 1965,                                      | 1-11-85      | 10.3                              |
|                                                                                             |                      |                                                                                                                                                                                               |                                        | 1983-84                                    | 3-28-85      | 70.4                              |
|                                                                                             |                      |                                                                                                                                                                                               |                                        |                                            | 8- 2-85      | 16.2                              |
|                                                                                             |                      |                                                                                                                                                                                               |                                        |                                            | 9- 9-85      | 18.5                              |
|                                                                                             |                      |                                                                                                                                                                                               |                                        |                                            | 9- 9-85      | 7.83                              |
| BAYOU PIERRE BASIN                                                                          |                      |                                                                                                                                                                                               |                                        |                                            |              |                                   |
| 07290217 Bayou<br>Pierre near<br>Old Red Star                                               | Mississippi<br>River | Lat 31°40'28", long 90°31'58", in<br>SE½ sec.7 T.8 N., R.7 E., Washington<br>Meridian, Lincoln County, Hydrologic<br>Unit 08060203, 0.5 mi northwest of<br>Old Red Star.                      | 4.30                                   | 1984                                       | 9-12-85      | .30                               |
| 07290218 Bayou<br>Pierre tributary<br>at Old Red Star                                       | Bayou Pierre         | Lat 31°40'10", long 90°31'27", in<br>NE½NW½ sec.17, T.8 N., R.7 E.,<br>Washington Meridian, Lincoln County,<br>Hydrologic Unit 08060203, 0.5 mi<br>southwest of Old Red Star.                 | 2.96                                   | 1984                                       | 9-12-85      | .02                               |
| 07290935 Sweet-<br>water Creek<br>near Midway                                               | Dye Branch           | Lat 31°42'08", long 90°36'31", in<br>NE½SW½ sec.33, T.9 N., R.6 E.,<br>Washington Meridian, Copiah County,<br>Hydrologic Unit 08060205, 3.2 mi<br>southwest of Midway.                        | 11.25                                  | 1984                                       | 9-12-85      | .17                               |
| 07291217 Shaws<br>Creek tributary<br>near Red Star                                          | McCall Creek         | Lat 31°37'32", long 90°31'06", in<br>NW½NE½ sec.32, T.8 N., R.7 E.,<br>Washington Meridian, Lincoln<br>County, Hydrologic Unit 08060205,<br>1.9 mi east of Red Star.                          | 1.65                                   | 1984                                       | 9-13-84      | .18                               |
| 07291223 Shaws<br>Creek tributary<br>No. 2 near<br>Red Star                                 | McCall Creek         | Lat 31°36'26", long 90°32'06", in<br>SE½NE½ sec.6, T.7 N., R.7 E.,<br>Washington Meridian, Lincoln<br>County, Hydrologic Unit 08060205,<br>1.6 mi southeast of Red Star.                      | 1.26                                   | 1984                                       | 9-13-84      | 1.87                              |
| 07291225 Shaws<br>Creek near<br>Vaughan                                                     | McCall Creek         | Lat 31°35'59", long 90°33'08", in<br>SE½SE½ sec.1, T.7 N., R.6 E.,<br>Washington Meridian, Lincoln<br>County, Hydrologic Unit 08060205,<br>3 mi northeast of Vaughan.                         | 2.01                                   | 1984                                       | 9-13-84      | 1.77                              |
| 07291229 Shaws<br>Creek tributary<br>No. 3 near<br>Red Star                                 | McCall Creek         | Lat 31°35'41", long 90°33'36", in<br>NE½NW½ sec.12, T.7 N., R.6 E.,<br>Washington Meridian, Lincoln<br>County, Hydrologic Unit 08060205,<br>2.3 mi south of Red Star.                         | a4.15                                  | 1984                                       | 9-13-84      | 2.33                              |

<sup>a</sup> Approximately.

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. The analyses are grouped by basins in a project area, therefore, the analyses of samples from sites within a given basin may be presented in separate tables.

## BRINE CONTAMINATION PROJECT

## WATER QUALITY DATA, OCTOBER 1984 TO AUGUST 1985

| DATE                                                                        | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) |
|-----------------------------------------------------------------------------|------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|-------------------------------------|----------------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|
| PASCAGOULA RIVER BASIN                                                      |      |                                                 |                                                   |                                |                             |                                     |                                                                |                                              |                                                     |
| 02479181 - RED CREEK NR LUMBERTON, MS (LAT 30 59 28 LONG 089 25 24)         |      |                                                 |                                                   |                                |                             |                                     |                                                                |                                              |                                                     |
| OCT , 1984                                                                  |      |                                                 |                                                   |                                |                             |                                     |                                                                |                                              |                                                     |
| 05...                                                                       | 1340 | 2.6                                             | 121                                               | 6.9                            | 18.0                        | 8.2                                 | 87                                                             | 21                                           | 16                                                  |
| 02479182 - PARKER CREEK NR YOUNG, MS (LAT 30 58 22 LONG 089 22 10)          |      |                                                 |                                                   |                                |                             |                                     |                                                                |                                              |                                                     |
| OCT , 1984                                                                  |      |                                                 |                                                   |                                |                             |                                     |                                                                |                                              |                                                     |
| 05...                                                                       | 1525 | 3.0                                             | 380                                               | 5.4                            | 17.0                        | 7.0                                 | 73                                                             | 41                                           | 110                                                 |
| 024791825 - UNNAMED CREEK NR YOUNG, MS (LAT 30 58 21 LONG 089 21 41)        |      |                                                 |                                                   |                                |                             |                                     |                                                                |                                              |                                                     |
| OCT , 1984                                                                  |      |                                                 |                                                   |                                |                             |                                     |                                                                |                                              |                                                     |
| 05...                                                                       | 1645 | .18                                             | 845                                               | 4.3                            | 18.0                        | 7.7                                 | 82                                                             | 100                                          | 350                                                 |
| 024791832 - HICKORY CREEK NR YOUNG, MS (LAT 30 56 28 LONG 089 21 25)        |      |                                                 |                                                   |                                |                             |                                     |                                                                |                                              |                                                     |
| OCT , 1984                                                                  |      |                                                 |                                                   |                                |                             |                                     |                                                                |                                              |                                                     |
| 05...                                                                       | 1130 | 4.6                                             | 20                                                | 6.0                            | 16.0                        | 9.0                                 | 92                                                             | 1.8                                          | 3.8                                                 |
| 024791839 - MILL CREEK NR CARNES, MS (LAT 30 56 10 LONG 089 16 51)          |      |                                                 |                                                   |                                |                             |                                     |                                                                |                                              |                                                     |
| AUG , 1985                                                                  |      |                                                 |                                                   |                                |                             |                                     |                                                                |                                              |                                                     |
| 28...                                                                       | 1340 | 1.2                                             | 59                                                | 6.3                            | 22.5                        | --                                  | --                                                             | 5.3                                          | 11                                                  |
| PEARL RIVER BASIN                                                           |      |                                                 |                                                   |                                |                             |                                     |                                                                |                                              |                                                     |
| 024892685 - CLEAR CREEK NR BAXTERVILLE, MS (LAT 31 05 47 LONG 089 37 17)    |      |                                                 |                                                   |                                |                             |                                     |                                                                |                                              |                                                     |
| OCT , 1984                                                                  |      |                                                 |                                                   |                                |                             |                                     |                                                                |                                              |                                                     |
| 04...                                                                       | 1215 | 1.5                                             | 19                                                | 5.6                            | 16.0                        | 7.3                                 | 74                                                             | 1.6                                          | 3.4                                                 |
| 02489269 - UNNAMED CREEK NR BAXTERVILLE, MS (LAT 31 04 14 LONG 089 38 26)   |      |                                                 |                                                   |                                |                             |                                     |                                                                |                                              |                                                     |
| OCT , 1984                                                                  |      |                                                 |                                                   |                                |                             |                                     |                                                                |                                              |                                                     |
| 04...                                                                       | 1045 | .54                                             | 810                                               | 5.3                            | 14.5                        | 10.4                                | 103                                                            | 100                                          | 350                                                 |
| 024892693 - CLEAR CREEK SW OF BAXTERVILLE, MS (LAT 31 04 04 LONG 089 37 55) |      |                                                 |                                                   |                                |                             |                                     |                                                                |                                              |                                                     |
| OCT , 1984                                                                  |      |                                                 |                                                   |                                |                             |                                     |                                                                |                                              |                                                     |
| 04...                                                                       | 0920 | 7.6                                             | 210                                               | 6.1                            | 14.5                        | 9.8                                 | 96                                                             | 37                                           | 64                                                  |
| 024892695 - CLEAR CREEK NR PINEBUR, MS (LAT 31 03 37 LONG 089 40 55)        |      |                                                 |                                                   |                                |                             |                                     |                                                                |                                              |                                                     |
| OCT , 1984                                                                  |      |                                                 |                                                   |                                |                             |                                     |                                                                |                                              |                                                     |
| 04...                                                                       | 1400 | 9.4                                             | 279                                               | 6.0                            | 15.0                        | 10.0                                | 99                                                             | 36                                           | 83                                                  |

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

## BRINE CONTAMINATION PROJECT--Continued

| DATE | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>AS<br>CACO3) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) |
|------|------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|-------------------------------------|----------------------------------------------------------------|----------------------------------------|--------------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|
|------|------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|-------------------------------------|----------------------------------------------------------------|----------------------------------------|--------------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|

## PASCAGOULA RIVER BASIN--Continued

02479105 - LITTLE BLACK CREEK NR LUMBERTON, MS (LAT 31 04 18 LONG 089 25 15)

|            |      |    |    |     |      |     |    |    |    |     |     |     |
|------------|------|----|----|-----|------|-----|----|----|----|-----|-----|-----|
| OCT , 1984 |      |    |    |     |      |     |    |    |    |     |     |     |
| 04...      | 1645 | 12 | 23 | 6.4 | 17.0 | 9.3 | 96 | 5  | 0  | 1.2 | .49 | 1.8 |
| NOV        |      |    |    |     |      |     |    |    |    |     |     |     |
| 29...      | 1315 | 41 | 23 | 6.2 | 12.0 | 8.6 | 80 | -- | -- | --  | --  | 1.7 |
| APR , 1985 |      |    |    |     |      |     |    |    |    |     |     |     |
| 24...      | 1405 | 25 | 24 | 6.1 | 22.5 | --  | -- | -- | -- | --  | --  | 1.8 |
| AUG        |      |    |    |     |      |     |    |    |    |     |     |     |
| 07...      | 1028 | 21 | 25 | 6.3 | 24.5 | --  | -- | -- | -- | --  | --  | 1.9 |

02479184 - DOUBLE BRANCH NR CARNES, MS (LAT 30 57 44 LONG 089 18 30)

|            |      |     |    |     |      |    |    |    |    |     |     |     |
|------------|------|-----|----|-----|------|----|----|----|----|-----|-----|-----|
| MAR , 1985 |      |     |    |     |      |    |    |    |    |     |     |     |
| 22...      | 1530 | 77  | 38 | 5.7 | 15.5 | -- | -- | 7  | 3  | 1.5 | .70 | 3.9 |
| AUG        |      |     |    |     |      |    |    |    |    |     |     |     |
| 27...      | 1650 | 4.4 | 92 | 6.1 | 23.5 | -- | -- | 17 | 11 | 3.9 | 1.7 | 9.9 |

## PEARL RIVER BASIN--Continued

02489273 - PEARL RIVER TRIBUTARY NR SANDY HOOK, MS (LAT 31 00 26 LONG 089 43 28)

|            |      |     |    |     |      |     |    |    |    |     |     |     |
|------------|------|-----|----|-----|------|-----|----|----|----|-----|-----|-----|
| OCT , 1984 |      |     |    |     |      |     |    |    |    |     |     |     |
| 03...      | 1425 | 4.8 | 36 | 6.2 | 16.5 | 9.7 | 99 | 10 | 0  | 2.4 | .86 | 2.8 |
| MAR , 1985 |      |     |    |     |      |     |    |    |    |     |     |     |
| 21...      | 1430 | 104 | 32 | 6.1 | 16.5 | --  | -- | 8  | 3  | 1.9 | .70 | 2.4 |
| 22...      | 0845 | 41  | 32 | 6.2 | 15.0 | --  | -- | -- | -- | --  | --  | 2.2 |
| APR        |      |     |    |     |      |     |    |    |    |     |     |     |
| 24...      | 1155 | 21  | 40 | 6.3 | 21.5 | --  | -- | -- | -- | --  | --  | 2.6 |
| AUG        |      |     |    |     |      |     |    |    |    |     |     |     |
| 07...      | 0845 | 5.8 | 42 | 6.4 | 22.0 | --  | -- | -- | -- | --  | --  | 2.8 |

## BRINE CONTAMINATION PROJECT--Continued

| DATE | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LINITY<br>LAB<br>(MG/L<br>AS<br>CACO3) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | BROMIDE<br>DIS-<br>SOLVED<br>(MG/L<br>AS BR) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR) |
|------|-------------------|-----------------------------------------|-----------------------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|----------------------------------------------|------------------------------------------------------|
|------|-------------------|-----------------------------------------|-----------------------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|----------------------------------------------|------------------------------------------------------|

## PASCAGOULA RIVER BASIN--Continued

02479105 - LITTLE BLACK CREEK NR LUMBERTON, MS (LAT 31 04 18 LONG 089 25 15)

|            |    |    |     |     |    |     |     |    |     |     |    |    |
|------------|----|----|-----|-----|----|-----|-----|----|-----|-----|----|----|
| OCT , 1984 |    |    |     |     |    |     |     |    |     |     |    |    |
| 04...      | 40 | .4 | .70 | 6.0 | .7 | 3.2 | .02 | 27 | .04 | .87 | 23 | 13 |
| NOV        |    |    |     |     |    |     |     |    |     |     |    |    |
| 29...      | -- | -- | --  | --  | -- | 3.8 | --  | -- | --  | --  | -- | -- |
| APR , 1985 |    |    |     |     |    |     |     |    |     |     |    |    |
| 24...      | -- | -- | --  | --  | -- | 3.6 | --  | 22 | .03 | 1.5 | -- | -- |
| AUG        |    |    |     |     |    |     |     |    |     |     |    |    |
| 07...      | -- | -- | --  | --  | -- | 2.7 | --  | -- | --  | --  | -- | -- |

02479184 - DOUBLE BRANCH NR CARNES, MS (LAT 30 57 44 LONG 089 18 30)

|            |    |    |     |     |     |     |     |    |     |     |    |    |
|------------|----|----|-----|-----|-----|-----|-----|----|-----|-----|----|----|
| MAR , 1985 |    |    |     |     |     |     |     |    |     |     |    |    |
| 22...      | 53 | .7 | .70 | 4.0 | 2.2 | 7.5 | .06 | 26 | .04 | 5.4 | 54 | 28 |
| AUG        |    |    |     |     |     |     |     |    |     |     |    |    |
| 27...      | 54 | 1  | 1.0 | 6.0 | 1.5 | 21  | .14 | 72 | .10 | .86 | 84 | 89 |

## PEARL RIVER BASIN--Continued

02489273 - PEARL RIVER TRIBUTARY NR SANDY HOOK, MS (LAT 31 00 26 LONG 089 43 28)

|            |    |    |     |     |     |     |     |    |     |     |    |    |
|------------|----|----|-----|-----|-----|-----|-----|----|-----|-----|----|----|
| OCT , 1984 |    |    |     |     |     |     |     |    |     |     |    |    |
| 03...      | 35 | .4 | 1.3 | 12  | 1.5 | 3.8 | .01 | 40 | .05 | .52 | 48 | 20 |
| MAR , 1985 |    |    |     |     |     |     |     |    |     |     |    |    |
| 21...      | 38 | .4 | .80 | 5.0 | 4.3 | 4.2 | .03 | 29 | .04 | 8.1 | 43 | 16 |
| 22...      | -- | -- | --  | --  | --  | 3.4 | --  | -- | --  | --  | -- | -- |
| APR        |    |    |     |     |     |     |     |    |     |     |    |    |
| 24...      | -- | -- | --  | --  | --  | 3.0 | --  | 21 | .03 | 1.2 | -- | -- |
| AUG        |    |    |     |     |     |     |     |    |     |     |    |    |
| 07...      | -- | -- | --  | --  | --  | 3.1 | --  | -- | --  | --  | -- | -- |



## POTENTIAL LIGNITE MINING AREAS PROJECT

## WATER QUALITY DATA, AUGUST 1985

| DATE                                                                            | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>IDY<br>(NTU) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) |
|---------------------------------------------------------------------------------|------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|----------------------------------------------|------------------------------|-------------------------------------|----------------------------------------------------------------|----------------------------------------|----------------------------------------------|
| WOLF RIVER BASIN                                                                |      |                                                 |                                                   |                                |                             |                                              |                              |                                     |                                                                |                                        |                                              |
| 07030361 - WOLF RIVER ON COUNTY ROAD NR BRODY, MS (LAT 34 54 34 LONG 089 02 53) |      |                                                 |                                                   |                                |                             |                                              |                              |                                     |                                                                |                                        |                                              |
| AUG , 1985                                                                      |      |                                                 |                                                   |                                |                             |                                              |                              |                                     |                                                                |                                        |                                              |
| 15...                                                                           | 1300 | 2.2                                             | 38                                                | 6.8                            | 25.5                        | 55                                           | 6.0                          | 6.5                                 | 81                                                             | 12                                     | 2.7                                          |
| 07030364 - GROGG CREEK NR CANAAN, MS (LAT 34 55 32 LONG 089 06 41)              |      |                                                 |                                                   |                                |                             |                                              |                              |                                     |                                                                |                                        |                                              |
| AUG , 1985                                                                      |      |                                                 |                                                   |                                |                             |                                              |                              |                                     |                                                                |                                        |                                              |
| 15...                                                                           | 1445 | 4.1                                             | 60                                                | 6.4                            | 29.0                        | 75                                           | 10                           | 6.0                                 | 80                                                             | 17                                     | 3.9                                          |
| YAZOO RIVER BASIN                                                               |      |                                                 |                                                   |                                |                             |                                              |                              |                                     |                                                                |                                        |                                              |
| 07268200 - FICE CREEK AT ETTA, MS (LAT 34 28 20 LONG 089 14 10)                 |      |                                                 |                                                   |                                |                             |                                              |                              |                                     |                                                                |                                        |                                              |
| AUG , 1985                                                                      |      |                                                 |                                                   |                                |                             |                                              |                              |                                     |                                                                |                                        |                                              |
| 14...                                                                           | 0820 | .84                                             | 44                                                | 6.5                            | 25.5                        | 70                                           | 20                           | 6.0                                 | 74                                                             | 12                                     | 2.5                                          |
| 07268750 - WOLF CREEK NR ETTA, MS (LAT 34 29 38 LONG 089 19 03)                 |      |                                                 |                                                   |                                |                             |                                              |                              |                                     |                                                                |                                        |                                              |
| AUG , 1985                                                                      |      |                                                 |                                                   |                                |                             |                                              |                              |                                     |                                                                |                                        |                                              |
| 14...                                                                           | 1025 | .65                                             | 58                                                | 6.7                            | 25.0                        | 30                                           | 4.0                          | 7.2                                 | 88                                                             | 19                                     | 3.8                                          |
| 07269400 - SHELBY CREEK NR GRAVESTOWN, MS (LAT 34 45 05 LONG 089 06 09)         |      |                                                 |                                                   |                                |                             |                                              |                              |                                     |                                                                |                                        |                                              |
| AUG , 1985                                                                      |      |                                                 |                                                   |                                |                             |                                              |                              |                                     |                                                                |                                        |                                              |
| 15...                                                                           | 1630 | 7.2                                             | 30                                                | 6.7                            | 27.0                        | 75                                           | 15                           | 6.8                                 | 87                                                             | 9                                      | 1.9                                          |
| 07269650 - CURTIS CREEK NR ASHLAND, MS (LAT 34 45 35 LONG 089 07 02)            |      |                                                 |                                                   |                                |                             |                                              |                              |                                     |                                                                |                                        |                                              |
| AUG , 1985                                                                      |      |                                                 |                                                   |                                |                             |                                              |                              |                                     |                                                                |                                        |                                              |
| 20...                                                                           | 1330 | 2.5                                             | 30                                                | 6.1                            | 24.0                        | 30                                           | 3.5                          | --                                  | --                                                             | 10                                     | 2.0                                          |
| 07269700 - YELLOW RABBIT CREEK NR ASHLAND, MS (LAT 34 45 21 LONG 089 08 48)     |      |                                                 |                                                   |                                |                             |                                              |                              |                                     |                                                                |                                        |                                              |
| AUG , 1985                                                                      |      |                                                 |                                                   |                                |                             |                                              |                              |                                     |                                                                |                                        |                                              |
| 20...                                                                           | 1605 | 13                                              | 29                                                | 6.4                            | 25.0                        | 50                                           | 7.0                          | --                                  | --                                                             | 8                                      | 1.7                                          |
| 07269790 - RHODEN CREEK NR PINE GROVE, MS (LAT 34 45 22 LONG 089 10 13)         |      |                                                 |                                                   |                                |                             |                                              |                              |                                     |                                                                |                                        |                                              |
| AUG , 1985                                                                      |      |                                                 |                                                   |                                |                             |                                              |                              |                                     |                                                                |                                        |                                              |
| 21...                                                                           | 0905 | 10                                              | 28                                                | 6.4                            | 23.0                        | 40                                           | 12                           | --                                  | --                                                             | 7                                      | 1.6                                          |
| 07269815 - SNOW CREEK NR PINE GROVE, MS (LAT 34 43 23 LONG 089 14 06)           |      |                                                 |                                                   |                                |                             |                                              |                              |                                     |                                                                |                                        |                                              |
| AUG , 1985                                                                      |      |                                                 |                                                   |                                |                             |                                              |                              |                                     |                                                                |                                        |                                              |
| 21...                                                                           | 1225 | 75                                              | 31                                                | 6.6                            | 27.0                        | 20                                           | 5.5                          | --                                  | --                                                             | 8                                      | 1.7                                          |
| 07269850 - CHILLI CREEK NR PINE GROVE, MS (LAT 34 42 25 LONG 089 13 41)         |      |                                                 |                                                   |                                |                             |                                              |                              |                                     |                                                                |                                        |                                              |
| AUG , 1985                                                                      |      |                                                 |                                                   |                                |                             |                                              |                              |                                     |                                                                |                                        |                                              |
| 15...                                                                           | 0955 | 3.7                                             | 67                                                | 7.1                            | 25.5                        | 20                                           | 5.0                          | 7.5                                 | 93                                                             | 23                                     | 4.9                                          |

## POTENTIAL LIGNITE MINING AREAS PROJECT--Continued

| DATE                                                                            | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>AC-FT) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | SOLIDS,<br>YOLA-<br>TILE,<br>DIS-<br>SOLVED<br>(MG/L) |
|---------------------------------------------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------|---------------------------------------------------|-------------------------------------------------------|
| WOLF RIVER BASIN--Continued                                                     |                                                      |                                              |                   |                                         |                                                     |                                               |                                                     |                                                                    |                                              |                                                   |                                                       |
| 07030361 - WOLF RIVER ON COUNTY ROAD NR BRODY, MS (LAT 34 54 34 LONG 089 02 53) |                                                      |                                              |                   |                                         |                                                     |                                               |                                                     |                                                                    |                                              |                                                   |                                                       |
| AUG , 1985<br>15...                                                             | 1.3                                                  | 2.0                                          | 25                | .3                                      | .80                                                 | .7                                            | 2.2                                                 | 31                                                                 | .04                                          | .18                                               | 16                                                    |
| 07030364 - GROGG CREEK NR CANAAN, MS (LAT 34 55 32 LONG 089 06 41)              |                                                      |                                              |                   |                                         |                                                     |                                               |                                                     |                                                                    |                                              |                                                   |                                                       |
| AUG , 1985<br>15...                                                             | 1.8                                                  | 2.1                                          | 20                | .2                                      | .90                                                 | .4                                            | 1.6                                                 | 43                                                                 | .06                                          | .48                                               | 14                                                    |
| YAZOO RIVER BASIN--Continued                                                    |                                                      |                                              |                   |                                         |                                                     |                                               |                                                     |                                                                    |                                              |                                                   |                                                       |
| 07268200 - FICE CREEK AT ETTA, MS (LAT 34 28 20 LONG 089 14 10)                 |                                                      |                                              |                   |                                         |                                                     |                                               |                                                     |                                                                    |                                              |                                                   |                                                       |
| AUG , 1985<br>14...                                                             | 1.3                                                  | 3.3                                          | 34                | .4                                      | 1.6                                                 | 2.3                                           | 3.9                                                 | 41                                                                 | .06                                          | .09                                               | 18                                                    |
| 07268750 - WOLF CREEK NR ETTA, MS (LAT 34 29 38 LONG 089 19 03)                 |                                                      |                                              |                   |                                         |                                                     |                                               |                                                     |                                                                    |                                              |                                                   |                                                       |
| AUG , 1985<br>14...                                                             | 2.2                                                  | 3.1                                          | 25                | .3                                      | 1.5                                                 | 2.7                                           | 2.6                                                 | 43                                                                 | .06                                          | .08                                               | 19                                                    |
| 07269400 - SHELBY CREEK NR GRAVESTOWN, MS (LAT 34 45 05 LONG 089 06 09)         |                                                      |                                              |                   |                                         |                                                     |                                               |                                                     |                                                                    |                                              |                                                   |                                                       |
| AUG , 1985<br>15...                                                             | 1.1                                                  | 1.9                                          | 29                | .3                                      | .70                                                 | 1.5                                           | 2.1                                                 | 32                                                                 | .04                                          | .62                                               | 14                                                    |
| 07269650 - CURTIS CREEK NR ASHLAND, MS (LAT 34 45 35 LONG 089 07 02)            |                                                      |                                              |                   |                                         |                                                     |                                               |                                                     |                                                                    |                                              |                                                   |                                                       |
| AUG , 1985<br>20...                                                             | 1.1                                                  | 1.7                                          | 26                | .2                                      | .90                                                 | <.2                                           | .20                                                 | 25                                                                 | .03                                          | .17                                               | 15                                                    |
| 07269700 - YELLOW RABBIT CREEK NR ASHLAND, MS (LAT 34 45 21 LONG 089 08 48)     |                                                      |                                              |                   |                                         |                                                     |                                               |                                                     |                                                                    |                                              |                                                   |                                                       |
| AUG , 1985<br>20...                                                             | 1.0                                                  | 1.5                                          | 26                | .2                                      | .90                                                 | 2.1                                           | 1.7                                                 | 30                                                                 | .04                                          | 1.1                                               | 18                                                    |
| 07269790 - RHODEN CREEK NR PINE GROVE, MS (LAT 34 45 22 LONG 089 10 13)         |                                                      |                                              |                   |                                         |                                                     |                                               |                                                     |                                                                    |                                              |                                                   |                                                       |
| AUG , 1985<br>21...                                                             | .85                                                  | 1.8                                          | 31                | .3                                      | .90                                                 | .6                                            | 2.0                                                 | 27                                                                 | .04                                          | .73                                               | 17                                                    |
| 07269815 - SNOW CREEK NR PINE GROVE, MS (LAT 34 43 23 LONG 089 14 06)           |                                                      |                                              |                   |                                         |                                                     |                                               |                                                     |                                                                    |                                              |                                                   |                                                       |
| AUG , 1985<br>21...                                                             | .87                                                  | 1.9                                          | 32                | .3                                      | .90                                                 | .6                                            | 1.8                                                 | 24                                                                 | .03                                          | 4.9                                               | 12                                                    |
| 07269850 - CHILLI CREEK NR PINE GROVE, MS (LAT 34 42 25 LONG 089 13 41)         |                                                      |                                              |                   |                                         |                                                     |                                               |                                                     |                                                                    |                                              |                                                   |                                                       |
| AUG , 1985<br>15...                                                             | 2.6                                                  | 3.6                                          | 24                | .3                                      | 1.3                                                 | 4.9                                           | 3.5                                                 | 54                                                                 | .07                                          | .54                                               | 16                                                    |

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

## POTENTIAL LIGNITE MINING AREAS PROJECT--Continued

| DATE | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | ALUM-<br>INUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AL) | ARSENIC<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS AS) | CADMIUM<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CD) | CHRO-<br>MIUM,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CO) | COBALT,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CO) | COPPER,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CU) | IRON,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS FE) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) |
|------|------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------|
|------|------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------|

## WOLF RIVER BASIN--Continued

07030361 - WOLF RIVER ON COUNTY ROAD NR BRODY, MS (LAT 34 54 34 LONG 089 02 53)

|                     |       |     |      |    |    |    |     |    |      |     |
|---------------------|-------|-----|------|----|----|----|-----|----|------|-----|
| AUG , 1985<br>15... | <.010 | .10 | <100 | <1 | <1 | <1 | <10 | <1 | 3100 | 230 |
|---------------------|-------|-----|------|----|----|----|-----|----|------|-----|

07030364 - GROGG CREEK NR CANAAN, MS (LAT 34 55 32 LONG 089 06 41)

|                     |       |      |      |    |    |   |     |    |      |      |
|---------------------|-------|------|------|----|----|---|-----|----|------|------|
| AUG , 1985<br>15... | <.010 | <.10 | <100 | <1 | <1 | 4 | <10 | <1 | 3600 | 1200 |
|---------------------|-------|------|------|----|----|---|-----|----|------|------|

## YAZOO RIVER BASIN--Continued

07268200 - FICE CREEK AT ETTA, MS (LAT 34 28 20 LONG 089 14 10)

|                     |      |      |     |    |    |   |     |   |      |     |
|---------------------|------|------|-----|----|----|---|-----|---|------|-----|
| AUG , 1985<br>14... | .010 | <.10 | 100 | <1 | <1 | 3 | <10 | 3 | 2200 | 780 |
|---------------------|------|------|-----|----|----|---|-----|---|------|-----|

07268750 - WOLF CREEK NR ETTA, MS (LAT 34 29 38 LONG 089 19 03)

|                     |      |     |      |    |    |   |     |   |      |     |
|---------------------|------|-----|------|----|----|---|-----|---|------|-----|
| AUG , 1985<br>14... | .010 | .10 | <100 | <1 | <1 | 2 | <10 | 1 | 1200 | 470 |
|---------------------|------|-----|------|----|----|---|-----|---|------|-----|

07269400 - SHELBY CREEK NR GRAVESTOWN, MS (LAT 34 45 05 LONG 089 06 09)

|                     |       |      |     |    |    |    |     |    |      |     |
|---------------------|-------|------|-----|----|----|----|-----|----|------|-----|
| AUG , 1985<br>15... | <.010 | <.10 | 100 | <1 | <1 | <1 | <10 | <1 | 2400 | 350 |
|---------------------|-------|------|-----|----|----|----|-----|----|------|-----|

07269650 - CURTIS CREEK NR ASHLAND, MS (LAT 34 45 35 LONG 089 07 02)

|                     |       |     |     |    |    |   |     |    |      |     |
|---------------------|-------|-----|-----|----|----|---|-----|----|------|-----|
| AUG , 1985<br>20... | <.010 | .10 | 100 | <1 | <1 | 1 | <10 | <1 | 1200 | 690 |
|---------------------|-------|-----|-----|----|----|---|-----|----|------|-----|

07269700 - YELLOW RABBIT CREEK NR ASHLAND, MS (LAT 34 45 21 LONG 089 08 48)

|                     |       |      |     |    |    |    |     |    |      |     |
|---------------------|-------|------|-----|----|----|----|-----|----|------|-----|
| AUG , 1985<br>20... | <.010 | <.10 | 100 | <1 | <1 | <1 | <10 | <1 | 2200 | 720 |
|---------------------|-------|------|-----|----|----|----|-----|----|------|-----|

07269790 - RHODEN CREEK NR PINE GROVE, MS (LAT 34 45 22 LONG 089 10 13)

|                     |       |      |     |    |    |    |     |    |      |     |
|---------------------|-------|------|-----|----|----|----|-----|----|------|-----|
| AUG , 1985<br>21... | <.010 | <.10 | 100 | <1 | <1 | <1 | <10 | <1 | 2100 | 680 |
|---------------------|-------|------|-----|----|----|----|-----|----|------|-----|

07269815 - SNOW CREEK NR PINE GROVE, MS (LAT 34 43 23 LONG 089 14 06)

|                     |       |      |     |    |    |    |     |    |      |     |
|---------------------|-------|------|-----|----|----|----|-----|----|------|-----|
| AUG , 1985<br>21... | <.010 | <.10 | 100 | <1 | <1 | <1 | <10 | <1 | 1600 | 500 |
|---------------------|-------|------|-----|----|----|----|-----|----|------|-----|

07269850 - CHILLI CREEK NR PINE GROVE, MS (LAT 34 42 25 LONG 089 13 41)

|                     |       |      |      |    |    |    |     |    |      |    |
|---------------------|-------|------|------|----|----|----|-----|----|------|----|
| AUG , 1985<br>15... | <.010 | <.10 | <100 | <1 | <1 | <1 | <10 | <1 | 1500 | 95 |
|---------------------|-------|------|------|----|----|----|-----|----|------|----|

## POTENTIAL LIGNITE MINING AREAS PROJECT--Continued

| DATE                         | IRON,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS FE)     | LEAD,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS PB) | MANGA-<br>NESE,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS MN) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MANGA-<br>NESE,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G) | MERCURY<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS HG) | SELE-<br>NIUM,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/G) | ZINC,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS ZN) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L) |
|------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------|
| WOLF RIVER BASIN--Continued  |                                                                        |                                                                    |                                                                 |                                                      |                                                                     |                                                                      |                                                                   |                                                                    |                                               |                                            |
| 07030361                     | - WOLF RIVER ON COUNTY ROAD NR BRODY, MS (LAT 34 54 34 LONG 089 02 53) |                                                                    |                                                                 |                                                      |                                                                     |                                                                      |                                                                   |                                                                    |                                               |                                            |
| AUG , 1985<br>15...          | 1200                                                                   | <10                                                                | 1100                                                            | 1100                                                 | 1300                                                                | .03                                                                  | <1                                                                | 2                                                                  | 3.4                                           | 18                                         |
| 07030364                     | - GROGG CREEK NR CANAAN, MS (LAT 34 55 32 LONG 089 06 41)              |                                                                    |                                                                 |                                                      |                                                                     |                                                                      |                                                                   |                                                                    |                                               |                                            |
| AUG , 1985<br>15...          | 1700                                                                   | <10                                                                | 4000                                                            | 4000                                                 | 240                                                                 | .04                                                                  | <1                                                                | 4                                                                  | 3.5                                           | 19                                         |
| YAZOO RIVER BASIN--Continued |                                                                        |                                                                    |                                                                 |                                                      |                                                                     |                                                                      |                                                                   |                                                                    |                                               |                                            |
| 07268200                     | - FICE CREEK AT ETTA, MS (LAT 34 28 20 LONG 089 14 10)                 |                                                                    |                                                                 |                                                      |                                                                     |                                                                      |                                                                   |                                                                    |                                               |                                            |
| AUG , 1985<br>14...          | 4800                                                                   | <10                                                                | 180                                                             | 180                                                  | 1700                                                                | .08                                                                  | <1                                                                | 10                                                                 | --                                            | 15                                         |
| 07268750                     | - WOLF CREEK NR ETTA, MS (LAT 34 29 38 LONG 089 19 03)                 |                                                                    |                                                                 |                                                      |                                                                     |                                                                      |                                                                   |                                                                    |                                               |                                            |
| AUG , 1985<br>14...          | 2900                                                                   | <10                                                                | 140                                                             | 140                                                  | 320                                                                 | .05                                                                  | <1                                                                | 4                                                                  | 3.8                                           | 3                                          |
| 07269400                     | - SHELBY CREEK NR GRAVESTOWN, MS (LAT 34 45 05 LONG 089 06 09)         |                                                                    |                                                                 |                                                      |                                                                     |                                                                      |                                                                   |                                                                    |                                               |                                            |
| AUG , 1985<br>15...          | 1100                                                                   | <10                                                                | 120                                                             | 130                                                  | 350                                                                 | .04                                                                  | <1                                                                | 2                                                                  | 3.4                                           | 24                                         |
| 07269650                     | - CURTIS CREEK NR ASHLAND, MS (LAT 34 45 35 LONG 089 07 02)            |                                                                    |                                                                 |                                                      |                                                                     |                                                                      |                                                                   |                                                                    |                                               |                                            |
| AUG , 1985<br>20...          | 1100                                                                   | <10                                                                | 250                                                             | 210                                                  | 280                                                                 | .02                                                                  | <1                                                                | 2                                                                  | --                                            | 14                                         |
| 07269700                     | - YELLOW RABBIT CREEK NR ASHLAND, MS (LAT 34 45 21 LONG 089 08 48)     |                                                                    |                                                                 |                                                      |                                                                     |                                                                      |                                                                   |                                                                    |                                               |                                            |
| AUG , 1985<br>20...          | 640                                                                    | <10                                                                | 50                                                              | 47                                                   | 330                                                                 | .01                                                                  | <1                                                                | 3                                                                  | --                                            | 71                                         |
| 07269790                     | - RHODEN CREEK NR PINE GROVE, MS (LAT 34 45 22 LONG 089 10 13)         |                                                                    |                                                                 |                                                      |                                                                     |                                                                      |                                                                   |                                                                    |                                               |                                            |
| AUG , 1985<br>21...          | 1200                                                                   | <10                                                                | 190                                                             | 89                                                   | 470                                                                 | .04                                                                  | <1                                                                | 2                                                                  | --                                            | 50                                         |
| 07269815                     | - SNOW CREEK NR PINE GROVE, MS (LAT 34 43 23 LONG 089 14 06)           |                                                                    |                                                                 |                                                      |                                                                     |                                                                      |                                                                   |                                                                    |                                               |                                            |
| AUG , 1985<br>21...          | 980                                                                    | <10                                                                | 180                                                             | 50                                                   | 430                                                                 | .05                                                                  | <1                                                                | 3                                                                  | --                                            | 74                                         |
| 07269850                     | - CHILLI CREEK NR PINE GROVE, MS (LAT 34 42 25 LONG 089 13 41)         |                                                                    |                                                                 |                                                      |                                                                     |                                                                      |                                                                   |                                                                    |                                               |                                            |
| AUG , 1985<br>15...          | 1400                                                                   | <10                                                                | 90                                                              | 89                                                   | 260                                                                 | .05                                                                  | <1                                                                | 3                                                                  | 4.0                                           | 20                                         |

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

## POTENTIAL LIGNITE MINING AREAS PROJECT--Continued

| DATE                                                                           | TIME  | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(NTU) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) |
|--------------------------------------------------------------------------------|-------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|----------------------------------------------|------------------------------|-------------------------------------|----------------------------------------------------------------|----------------------------------------|----------------------------------------------|
| YAZOO RIVER BASIN--Continued                                                   |       |                                                 |                                                   |                                |                             |                                              |                              |                                     |                                                                |                                        |                                              |
| 07269878 - OAKLIMETER CREEK NR HICKORY FLAT, MS (LAT 34 37 22 LONG 089 05 59)  |       |                                                 |                                                   |                                |                             |                                              |                              |                                     |                                                                |                                        |                                              |
| AUG , 1985                                                                     | 21... | 1540                                            | 1.4                                               | 61                             | 6.7                         | 31.0                                         | 55                           | 10                                  | --                                                             | --                                     | 16 3.6                                       |
| 07269879 - PECHAHALLEE CREEK NR HICKORY FLAT, MS (LAT 34 37 38 LONG 089 13 51) |       |                                                 |                                                   |                                |                             |                                              |                              |                                     |                                                                |                                        |                                              |
| AUG , 1985                                                                     | 15... | 0815                                            | .26                                               | 50                             | 6.8                         | 25.0                                         | 25                           | 5.5                                 | 7.0                                                            | 86                                     | 16 3.3                                       |
| 07270000 - POTTS CREEK NR POTTS CAMP, MS (LAT 34 35 40 LONG 089 20 00)         |       |                                                 |                                                   |                                |                             |                                              |                              |                                     |                                                                |                                        |                                              |
| AUG , 1985                                                                     | 14... | 1445                                            | .04                                               | 78                             | 6.6                         | 29.5                                         | 15                           | 4.5                                 | 6.6                                                            | 88                                     | 23 5.2                                       |
| 07270200 - MILLS CREEK NR CORNERSVILLE, MS (LAT 34 31 30 LONG 089 15 01)       |       |                                                 |                                                   |                                |                             |                                              |                              |                                     |                                                                |                                        |                                              |
| AUG , 1985                                                                     | 14... | 1545                                            | 2.1                                               | 69                             | 7.5                         | 32.0                                         | 55                           | 15                                  | 7.2                                                            | 100                                    | 22 4.9                                       |
| 07270500 - BAGLEY CREEK NR ABBEVILLE, MS (LAT 34 30 18 LONG 089 24 53)         |       |                                                 |                                                   |                                |                             |                                              |                              |                                     |                                                                |                                        |                                              |
| AUG , 1985                                                                     | 14... | 1155                                            | 1.8                                               | 45                             | 6.7                         | 27.0                                         | 35                           | 10                                  | 7.2                                                            | 91                                     | 14 2.9                                       |



## POTENTIAL LIGNITE MINING AREAS PROJECT--Continued

| DATE | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>AC-FT) | SOLIDS,<br>DIS-<br>SOLVED<br>(TONS<br>PER<br>DAY) | SOLIDS,<br>VOLA-<br>TILE,<br>DIS-<br>SOLVED<br>(MG/L) |
|------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|
|------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|

## YAZOO RIVER BASIN--Continued

07269878 - OAKLIMETER CREEK NR HICKORY FLAT, MS (LAT 34 37 22 LONG 089 05 59)

|                     |     |     |    |    |     |     |     |    |     |     |    |
|---------------------|-----|-----|----|----|-----|-----|-----|----|-----|-----|----|
| AUG , 1985<br>21... | 1.8 | 4.4 | 34 | .5 | 1.6 | 4.6 | 4.6 | 48 | .07 | .18 | 20 |
|---------------------|-----|-----|----|----|-----|-----|-----|----|-----|-----|----|

07269879 - PECHAHALEE CREEK NR HICKORY FLAT, MS (LAT 34 37 38 LONG 089 13 51)

|                     |     |     |    |    |     |     |     |    |     |     |    |
|---------------------|-----|-----|----|----|-----|-----|-----|----|-----|-----|----|
| AUG , 1985<br>15... | 2.0 | 2.9 | 26 | .3 | 1.1 | 3.2 | 4.1 | 39 | .05 | .03 | 18 |
|---------------------|-----|-----|----|----|-----|-----|-----|----|-----|-----|----|

07270000 - POTTS CREEK NR POTTS CAMP, MS (LAT 34 35 40 LONG 089 20 00)

|                     |     |     |    |    |     |     |     |    |     |     |    |
|---------------------|-----|-----|----|----|-----|-----|-----|----|-----|-----|----|
| AUG , 1985<br>14... | 2.5 | 4.5 | 27 | .4 | 2.0 | 5.3 | 6.6 | 56 | .08 | .00 | 17 |
|---------------------|-----|-----|----|----|-----|-----|-----|----|-----|-----|----|

07270200 - MILLS CREEK NR CORNERSVILLE, MS (LAT 34 31 30 LONG 089 15 01)

|                     |     |     |    |    |     |     |     |    |     |     |    |
|---------------------|-----|-----|----|----|-----|-----|-----|----|-----|-----|----|
| AUG , 1985<br>14... | 2.4 | 4.9 | 31 | .5 | 1.7 | 3.6 | 4.2 | 59 | .08 | .33 | 21 |
|---------------------|-----|-----|----|----|-----|-----|-----|----|-----|-----|----|

07270500 - BAGLEY CREEK NR ABBEVILLE, MS (LAT 34 30 18 LONG 089 24 53)

|                     |     |     |    |    |     |     |     |    |     |     |    |
|---------------------|-----|-----|----|----|-----|-----|-----|----|-----|-----|----|
| AUG , 1985<br>14... | 1.7 | 3.0 | 29 | .4 | 1.2 | 3.6 | 2.7 | 42 | .06 | .20 | -- |
|---------------------|-----|-----|----|----|-----|-----|-----|----|-----|-----|----|

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

## POTENTIAL LIGNITE MINING AREAS PROJECT--Continued

| DATE                                                                           | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | ALUM-<br>INUM,<br>DIS-<br>SOLVED<br>TOTAL<br>(UG/L<br>AS AL) | ARSENIC<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS AS) | CADMIUM<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CD) | CHRO-<br>MIUM,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G) | COBALT,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CO) | COPPER,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS CU) | IRON,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS FE) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) |
|--------------------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------|
| YAZOO RIVER BASIN--Continued                                                   |                                                      |                                                      |                                                              |                                                                     |                                                                      |                                                                    |                                                                      |                                                                      |                                                       |                                            |
| 07269878 - OAKLIMETER CREEK NR HICKORY FLAT, MS (LAT 34 37 22 LONG 089 05 59)  |                                                      |                                                      |                                                              |                                                                     |                                                                      |                                                                    |                                                                      |                                                                      |                                                       |                                            |
| AUG , 1985<br>21...                                                            | <.010                                                | <.10                                                 | 100                                                          | <1                                                                  | <1                                                                   | 2                                                                  | <10                                                                  | <1                                                                   | 1300                                                  | 580                                        |
| 07269879 - PECHAHALLEE CREEK NR HICKORY FLAT, MS (LAT 34 37 38 LONG 089 13 51) |                                                      |                                                      |                                                              |                                                                     |                                                                      |                                                                    |                                                                      |                                                                      |                                                       |                                            |
| AUG , 1985<br>15...                                                            | <.010                                                | <.10                                                 | <100                                                         | <1                                                                  | <1                                                                   | 1                                                                  | <10                                                                  | <1                                                                   | 1300                                                  | 410                                        |
| 07270000 - POTTS CREEK NR POTTS CAMP, MS (LAT 34 35 40 LONG 089 20 00)         |                                                      |                                                      |                                                              |                                                                     |                                                                      |                                                                    |                                                                      |                                                                      |                                                       |                                            |
| AUG , 1985<br>14...                                                            | <.010                                                | <.10                                                 | 100                                                          | <1                                                                  | <1                                                                   | 2                                                                  | <10                                                                  | <1                                                                   | 1700                                                  | 610                                        |
| 07270200 - MILLS CREEK NR CORNERSVILLE, MS (LAT 34 31 30 LONG 089 15 01)       |                                                      |                                                      |                                                              |                                                                     |                                                                      |                                                                    |                                                                      |                                                                      |                                                       |                                            |
| AUG , 1985<br>14...                                                            | <.010                                                | <.10                                                 | 100                                                          | <1                                                                  | <1                                                                   | 5                                                                  | <10                                                                  | 1                                                                    | 1700                                                  | 290                                        |
| 07270500 - BAGLEY CREEK NR ABBEVILLE, MS (LAT 34 30 18 LONG 089 24 53)         |                                                      |                                                      |                                                              |                                                                     |                                                                      |                                                                    |                                                                      |                                                                      |                                                       |                                            |
| AUG , 1985<br>14...                                                            | <.010                                                | <.10                                                 | 100                                                          | <1                                                                  | <1                                                                   | <1                                                                 | <10                                                                  | <1                                                                   | 1400                                                  | 510                                        |

## POTENTIAL LIGNITE MINING AREAS PROJECT--Continued

| DATE                         | IRON,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS FE)    | LEAD,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS PB) | MANGA-<br>NESE,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS MN) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MANGA-<br>NESE,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G) | MERCURY<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS HG) | SELE-<br>NIUM,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/G) | ZINC,<br>RECOV.<br>FM BOT-<br>TOM MA-<br>TERIAL<br>(UG/G<br>AS ZN) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L) |
|------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------|
| YAZOO RIVER BASIN--Continued |                                                                       |                                                                    |                                                                 |                                                      |                                                                     |                                                                      |                                                                   |                                                                    |                                               |                                            |
| 07269878                     | - OAKLIMETER CREEK NR HICKORY FLAT, MS (LAT 34 37 22 LONG 089 05 59)  |                                                                    |                                                                 |                                                      |                                                                     |                                                                      |                                                                   |                                                                    |                                               |                                            |
| AUG , 1985<br>21...          | 1100                                                                  | <10                                                                | 150                                                             | 160                                                  | 190                                                                 | .03                                                                  | <1                                                                | 2                                                                  | --                                            | 12                                         |
| 07269879                     | - PECHAHALLEE CREEK NR HICKORY FLAT, MS (LAT 34 37 38 LONG 089 13 51) |                                                                    |                                                                 |                                                      |                                                                     |                                                                      |                                                                   |                                                                    |                                               |                                            |
| AUG , 1985<br>15...          | 1300                                                                  | 20                                                                 | 140                                                             | 140                                                  | 360                                                                 | .05                                                                  | <1                                                                | 3                                                                  | --                                            | 8                                          |
| 07270000                     | - POTTS CREEK NR POTTS CAMP, MS (LAT 34 35 40 LONG 089 20 00)         |                                                                    |                                                                 |                                                      |                                                                     |                                                                      |                                                                   |                                                                    |                                               |                                            |
| AUG , 1985<br>14...          | 1600                                                                  | <10                                                                | 430                                                             | 420                                                  | 220                                                                 | .02                                                                  | <1                                                                | 2                                                                  | 3.4                                           | 8                                          |
| 07270200                     | - MILLS CREEK NR CORNERSVILLE, MS (LAT 34 31 30 LONG 089 15 01)       |                                                                    |                                                                 |                                                      |                                                                     |                                                                      |                                                                   |                                                                    |                                               |                                            |
| AUG , 1985<br>14...          | 8400                                                                  | <10                                                                | 70                                                              | 67                                                   | 1200                                                                | .03                                                                  | <1                                                                | 8                                                                  | --                                            | 16                                         |
| 07270500                     | - BAGLEY CREEK NR ABBEVILLE, MS (LAT 34 30 18 LONG 089 24 53)         |                                                                    |                                                                 |                                                      |                                                                     |                                                                      |                                                                   |                                                                    |                                               |                                            |
| AUG , 1985<br>14...          | 840                                                                   | <10                                                                | 90                                                              | 82                                                   | 550                                                                 | .02                                                                  | <1                                                                | 2                                                                  | 3.6                                           | 14                                         |

## TENNESSEE-TOMBIGBEE WATERWAY PROJECT

## WATER QUALITY DATA, JULY TO AUGUST 1985

| DATE                                                                                      | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | TRANS-<br>PAR-<br>ENCY<br>(SECCHI<br>DISK)<br>(IN) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) |
|-------------------------------------------------------------------------------------------|------|----------------------------------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|----------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| MOBILE RIVER BASIN                                                                        |      |                                  |                                                 |                                                   |                                |                             |                                                    |                                                                |                                                                |                                                                |
| 343018088193035 - TTW LOCK "E" POOL SEDIMENTATION RANGE 6AE (LAT 34 30 18 LONG 088 19 30) |      |                                  |                                                 |                                                   |                                |                             |                                                    |                                                                |                                                                |                                                                |
| JUL , 1985                                                                                |      |                                  |                                                 |                                                   |                                |                             |                                                    |                                                                |                                                                |                                                                |
| 30...                                                                                     | 1200 | --                               | --                                              | --                                                | --                             | --                          | 52.6                                               | --                                                             | --                                                             | <5                                                             |
| 30...                                                                                     | 1201 | 1.00                             | --                                              | 126                                               | 7.4                            | 28.5                        | --                                                 | 6.5                                                            | 84                                                             | --                                                             |
| 30...                                                                                     | 1202 | 5.00                             | --                                              | 126                                               | 7.4                            | 27.5                        | --                                                 | 6.5                                                            | 83                                                             | --                                                             |
| 30...                                                                                     | 1203 | 10.0                             | --                                              | 126                                               | 7.4                            | 27.5                        | --                                                 | 6.5                                                            | 83                                                             | --                                                             |
| 30...                                                                                     | 1204 | 13.0                             | --                                              | 126                                               | 7.3                            | 27.5                        | --                                                 | 5.9                                                            | 75                                                             | --                                                             |
| 342949088193735 - TTW LOCK "E" POOL MACKEYS CREEK INTAKE (LAT 34 29 49 LONG 088 19 37)    |      |                                  |                                                 |                                                   |                                |                             |                                                    |                                                                |                                                                |                                                                |
| JUL , 1985                                                                                |      |                                  |                                                 |                                                   |                                |                             |                                                    |                                                                |                                                                |                                                                |
| 30...                                                                                     | 1135 | --                               | --                                              | --                                                | --                             | --                          | 40.8                                               | --                                                             | --                                                             | --                                                             |
| 30...                                                                                     | 1136 | --                               | --                                              | 128                                               | 7.4                            | 28.0                        | --                                                 | 7.2                                                            | 92                                                             | --                                                             |
| 02430014 - MACKEYS CREEK EXIT CHANNEL NR MOORES MILL, MS (LAT 34 29 49 LONG 088 19 37)    |      |                                  |                                                 |                                                   |                                |                             |                                                    |                                                                |                                                                |                                                                |
| JUL , 1985                                                                                |      |                                  |                                                 |                                                   |                                |                             |                                                    |                                                                |                                                                |                                                                |
| 30...                                                                                     | 1135 | --                               | 9.0                                             | --                                                | --                             | --                          | --                                                 | --                                                             | --                                                             | --                                                             |
| 30...                                                                                     | 1136 | --                               | --                                              | 120                                               | 7.2                            | 28.5                        | --                                                 | 7.2                                                            | 93                                                             | --                                                             |
| 342917088194935 - TTW LOCK "E" POOL RED BUD CREEK INTAKE (LAT 34 29 17 LONG 088 19 49)    |      |                                  |                                                 |                                                   |                                |                             |                                                    |                                                                |                                                                |                                                                |
| JUL , 1985                                                                                |      |                                  |                                                 |                                                   |                                |                             |                                                    |                                                                |                                                                |                                                                |
| 30...                                                                                     | 1230 | --                               | --                                              | --                                                | --                             | --                          | >18.0                                              | --                                                             | --                                                             | --                                                             |
| 30...                                                                                     | 1231 | --                               | --                                              | 121                                               | 7.0                            | 29.0                        | --                                                 | 7.1                                                            | 93                                                             | --                                                             |
| 02430016 - RED BUD CREEK EXIT CHANNEL NR MOORES MILL, MS (LAT 34 29 17 LONG 088 19 49)    |      |                                  |                                                 |                                                   |                                |                             |                                                    |                                                                |                                                                |                                                                |
| JUL , 1985                                                                                |      |                                  |                                                 |                                                   |                                |                             |                                                    |                                                                |                                                                |                                                                |
| 30...                                                                                     | 1230 | --                               | .83                                             | --                                                | --                             | --                          | --                                                 | --                                                             | --                                                             | --                                                             |
| 30...                                                                                     | 1231 | --                               | --                                              | 113                                               | 7.1                            | 29.5                        | --                                                 | 7.1                                                            | 93                                                             | --                                                             |
| 342756088213535 - TTW LOCK "E" POOL SEDIMENTATION RANGE 1AE (LAT 34 27 56 LONG 088 21 35) |      |                                  |                                                 |                                                   |                                |                             |                                                    |                                                                |                                                                |                                                                |
| JUL , 1985                                                                                |      |                                  |                                                 |                                                   |                                |                             |                                                    |                                                                |                                                                |                                                                |
| 30...                                                                                     | 1240 | --                               | --                                              | --                                                | --                             | --                          | 45.0                                               | --                                                             | --                                                             | K45                                                            |
| 30...                                                                                     | 1241 | 1.00                             | --                                              | 119                                               | 7.2                            | 28.5                        | --                                                 | 6.6                                                            | 85                                                             | --                                                             |
| 30...                                                                                     | 1242 | 5.00                             | --                                              | 119                                               | 7.2                            | 28.0                        | --                                                 | 6.9                                                            | 89                                                             | --                                                             |
| 30...                                                                                     | 1243 | 10.0                             | --                                              | 116                                               | 7.1                            | 27.5                        | --                                                 | 6.0                                                            | 76                                                             | --                                                             |
| 30...                                                                                     | 1244 | 15.0                             | --                                              | 115                                               | 7.0                            | 27.0                        | --                                                 | 5.4                                                            | 68                                                             | --                                                             |
| 30...                                                                                     | 1245 | 20.0                             | --                                              | 114                                               | 7.0                            | 26.5                        | --                                                 | 5.3                                                            | 66                                                             | --                                                             |
| 30...                                                                                     | 1246 | 23.0                             | --                                              | 114                                               | 7.0                            | 26.5                        | --                                                 | 4.9                                                            | 61                                                             | --                                                             |
| 342756088215400 - TTW LOCK "E" LOCK SPILLWAY EXIT CHANNEL (LAT 34 27 56 LONG 088 21 54)   |      |                                  |                                                 |                                                   |                                |                             |                                                    |                                                                |                                                                |                                                                |
| JUL , 1985                                                                                |      |                                  |                                                 |                                                   |                                |                             |                                                    |                                                                |                                                                |                                                                |
| 30...                                                                                     | 1300 | --                               | --                                              | 126                                               | 7.2                            | 30.5                        | --                                                 | 7.8                                                            | 105                                                            | --                                                             |
| 342704088234535 - TTW LOCK "D" POOL NAVIGATION MILE 404.8 (LAT 34 27 04 LONG 088 23 45)   |      |                                  |                                                 |                                                   |                                |                             |                                                    |                                                                |                                                                |                                                                |
| JUL , 1985                                                                                |      |                                  |                                                 |                                                   |                                |                             |                                                    |                                                                |                                                                |                                                                |
| 30...                                                                                     | 1330 | --                               | --                                              | --                                                | --                             | --                          | 43.2                                               | --                                                             | --                                                             | <5                                                             |
| 30...                                                                                     | 1331 | 1.00                             | --                                              | 121                                               | 7.6                            | 29.0                        | --                                                 | 7.1                                                            | 93                                                             | --                                                             |
| 30...                                                                                     | 1332 | 5.00                             | --                                              | 120                                               | 7.4                            | 28.5                        | --                                                 | 7.1                                                            | 92                                                             | --                                                             |
| 30...                                                                                     | 1333 | 10.0                             | --                                              | 119                                               | 6.8                            | 28.0                        | --                                                 | 6.5                                                            | 83                                                             | --                                                             |
| 30...                                                                                     | 1334 | 13.0                             | --                                              | 119                                               | 6.8                            | 28.0                        | --                                                 | 6.4                                                            | 82                                                             | --                                                             |

## TENNESSEE-TOMBIGBEE WATERWAY PROJECT--Continued

| DATE                                                                                         | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | TRANS-<br>PAR-<br>ENCY<br>(SECCHI<br>DISK)<br>(IN) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) |
|----------------------------------------------------------------------------------------------|------|----------------------------------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|----------------------------------------------------|-------------------------------------|-----------------------------------------------------|----------------------------------------------------------------|
| MOBILE RIVER BASIN--Continued                                                                |      |                                  |                                                 |                                                   |                                |                             |                                                    |                                     |                                                     |                                                                |
| 342238088242835 - TTW LOCK "D" POOL MUD CREEK INTAKE (LAT 34 22 38 LONG 088 24 28)           |      |                                  |                                                 |                                                   |                                |                             |                                                    |                                     |                                                     |                                                                |
| JUL , 1985                                                                                   |      |                                  |                                                 |                                                   |                                |                             |                                                    |                                     |                                                     |                                                                |
| 30...                                                                                        | 1415 | --                               | --                                              | --                                                | --                             | --                          | 66.0                                               | --                                  | --                                                  | --                                                             |
| 30...                                                                                        | 1416 | --                               | --                                              | 113                                               | 7.2                            | 32.0                        | --                                                 | 4.9                                 | 67                                                  | --                                                             |
| 02431450 - MUD CREEK EXIT CHANNEL NR MANTACHIE, MS (LAT 34 22 38 LONG 088 24 28)             |      |                                  |                                                 |                                                   |                                |                             |                                                    |                                     |                                                     |                                                                |
| JUL , 1985                                                                                   |      |                                  |                                                 |                                                   |                                |                             |                                                    |                                     |                                                     |                                                                |
| 30...                                                                                        | 1415 | --                               | .00                                             | --                                                | --                             | --                          | --                                                 | --                                  | --                                                  | --                                                             |
| 342201088242935 - TTW LOCK "D" POOL SEDIMENTATION RANGE 1AD (LAT 34 22 01 LONG 088 24 29)    |      |                                  |                                                 |                                                   |                                |                             |                                                    |                                     |                                                     |                                                                |
| JUL , 1985                                                                                   |      |                                  |                                                 |                                                   |                                |                             |                                                    |                                     |                                                     |                                                                |
| 30...                                                                                        | 1420 | --                               | --                                              | --                                                | --                             | --                          | 66.0                                               | --                                  | --                                                  | <5                                                             |
| 30...                                                                                        | 1421 | 1.00                             | --                                              | 114                                               | 7.1                            | 32.0                        | --                                                 | 6.1                                 | 84                                                  | --                                                             |
| 30...                                                                                        | 1422 | 5.00                             | --                                              | 112                                               | 7.0                            | 29.5                        | --                                                 | 6.2                                 | 82                                                  | --                                                             |
| 30...                                                                                        | 1423 | 10.0                             | --                                              | 112                                               | 6.9                            | 28.5                        | --                                                 | 3.9                                 | 50                                                  | --                                                             |
| 30...                                                                                        | 1424 | 15.0                             | --                                              | 110                                               | 6.9                            | 28.5                        | --                                                 | 2.9                                 | 38                                                  | --                                                             |
| 30...                                                                                        | 1425 | 20.0                             | --                                              | 110                                               | 6.9                            | 28.0                        | --                                                 | 2.6                                 | 33                                                  | --                                                             |
| 30...                                                                                        | 1426 | 25.0                             | --                                              | 112                                               | 6.9                            | 28.0                        | --                                                 | 2.0                                 | 26                                                  | --                                                             |
| 30...                                                                                        | 1427 | 28.0                             | --                                              | 119                                               | 6.9                            | 28.0                        | --                                                 | .4                                  | 5                                                   | --                                                             |
| 342043088244535 - TTW LOCK "C" POOL NAVIGATION MILE 397.1 (LAT 34 20 43 LONG 088 24 45)      |      |                                  |                                                 |                                                   |                                |                             |                                                    |                                     |                                                     |                                                                |
| JUL , 1985                                                                                   |      |                                  |                                                 |                                                   |                                |                             |                                                    |                                     |                                                     |                                                                |
| 30...                                                                                        | 1500 | --                               | --                                              | --                                                | --                             | --                          | 43.2                                               | --                                  | --                                                  | <5                                                             |
| 30...                                                                                        | 1501 | 1.00                             | --                                              | 110                                               | 7.0                            | 31.5                        | --                                                 | 6.1                                 | 83                                                  | --                                                             |
| 30...                                                                                        | 1502 | 5.00                             | --                                              | 109                                               | 7.0                            | 30.5                        | --                                                 | 6.1                                 | 82                                                  | --                                                             |
| 30...                                                                                        | 1503 | 10.0                             | --                                              | 108                                               | 7.0                            | 28.5                        | --                                                 | 5.6                                 | 72                                                  | --                                                             |
| 30...                                                                                        | 1504 | 12.0                             | --                                              | 108                                               | 7.0                            | 28.5                        | --                                                 | 5.1                                 | 66                                                  | --                                                             |
| 341628088254035 - TTW LOCK "C" POOL SEDIMENTATION RANGE 2AC (LAT 34 16 28 LONG 088 25 40)    |      |                                  |                                                 |                                                   |                                |                             |                                                    |                                     |                                                     |                                                                |
| JUL , 1985                                                                                   |      |                                  |                                                 |                                                   |                                |                             |                                                    |                                     |                                                     |                                                                |
| 30...                                                                                        | 1530 | --                               | --                                              | --                                                | --                             | --                          | 45.6                                               | --                                  | --                                                  | <5                                                             |
| 30...                                                                                        | 1531 | 1.00                             | --                                              | 105                                               | 7.1                            | 33.0                        | --                                                 | 6.7                                 | 94                                                  | --                                                             |
| 30...                                                                                        | 1532 | 5.00                             | --                                              | 102                                               | 7.0                            | 28.5                        | --                                                 | 6.9                                 | 89                                                  | --                                                             |
| 30...                                                                                        | 1533 | 10.0                             | --                                              | 100                                               | 6.9                            | 28.0                        | --                                                 | 5.0                                 | 64                                                  | --                                                             |
| 30...                                                                                        | 1534 | 13.0                             | --                                              | 84                                                | 6.8                            | 27.5                        | --                                                 | 4.1                                 | 52                                                  | --                                                             |
| 341413088244535 - TTW LOCK "B" POOL NAVIGATION MILE 389.4 (LAT 34 14 13 LONG 088 24 45)      |      |                                  |                                                 |                                                   |                                |                             |                                                    |                                     |                                                     |                                                                |
| JUL , 1985                                                                                   |      |                                  |                                                 |                                                   |                                |                             |                                                    |                                     |                                                     |                                                                |
| 30...                                                                                        | 1610 | --                               | --                                              | --                                                | --                             | --                          | 33.6                                               | --                                  | --                                                  | <5                                                             |
| 30...                                                                                        | 1611 | 1.00                             | --                                              | 96                                                | 7.3                            | 32.5                        | --                                                 | 7.8                                 | 108                                                 | --                                                             |
| 30...                                                                                        | 1612 | 5.00                             | --                                              | 95                                                | 7.2                            | 29.0                        | --                                                 | 7.7                                 | 101                                                 | --                                                             |
| 30...                                                                                        | 1613 | 10.0                             | --                                              | 95                                                | 7.2                            | 28.0                        | --                                                 | 7.5                                 | 96                                                  | --                                                             |
| 30...                                                                                        | 1614 | 13.0                             | --                                              | 95                                                | 7.2                            | 28.0                        | --                                                 | 7.4                                 | 95                                                  | --                                                             |
| 340546088241935 - TTW LOCK "B" POOL BULL MOUNTAIN CREEK INTAKE (LAT 34 05 46 LONG 088 24 19) |      |                                  |                                                 |                                                   |                                |                             |                                                    |                                     |                                                     |                                                                |
| JUL , 1985                                                                                   |      |                                  |                                                 |                                                   |                                |                             |                                                    |                                     |                                                     |                                                                |
| 30...                                                                                        | 1640 | --                               | --                                              | --                                                | --                             | --                          | 27.6                                               | --                                  | --                                                  | --                                                             |
| 30...                                                                                        | 1641 | --                               | --                                              | 94                                                | 7.1                            | 31.5                        | --                                                 | 7.9                                 | 108                                                 | --                                                             |



## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

## TENNESSEE-TOMBIGBEE WATERWAY PROJECT--Continued

| DATE | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | TRANS-<br>PAR-<br>ENCY<br>(SECCHI<br>DISK<br>(IN) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) |
|------|------|----------------------------------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|---------------------------------------------------|-------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
|------|------|----------------------------------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|---------------------------------------------------|-------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|

## MOBILE RIVER BASIN--Continued

02433050 - BULL MOUNTAIN CREEK EXIT CHAN NR SMITHVILLE, MS (LAT 34 05 46 LONG 088 24 19)

JUL , 1985

|       |      |    |    |    |     |      |    |     |    |    |
|-------|------|----|----|----|-----|------|----|-----|----|----|
| 30... | 1640 | -- | 56 | -- | --  | --   | -- | --  | -- | -- |
| 30... | 1641 | -- | -- | 95 | 7.2 | 30.5 | -- | 7.1 | 95 | -- |

340424088250235 - TTW LOCK "B" POOL SEDIMENTATION RANGE 1AB (LAT 34 04 24 LONG 088 25 02)

JUL , 1985

|       |      |      |    |    |     |      |      |     |     |     |
|-------|------|------|----|----|-----|------|------|-----|-----|-----|
| 30... | 1710 | --   | -- | -- | --  | --   | 36.0 | --  | --  | K23 |
| 30... | 1711 | 1.00 | -- | 86 | 7.5 | 31.0 | --   | 8.6 | 116 | --  |
| 30... | 1712 | 5.00 | -- | 83 | 7.1 | 28.5 | --   | 8.4 | 109 | --  |
| 30... | 1713 | 10.0 | -- | 51 | 6.5 | 26.0 | --   | 2.4 | 30  | --  |
| 30... | 1714 | 14.0 | -- | 31 | 6.6 | 25.0 | --   | 3.7 | 45  | --  |

340428088252900 - TTW LOCK "B" LOCK SPILLWAY EXIT CHANNEL (LAT 34 04 28 LONG 088 25 29)

JUL , 1985

|       |      |    |    |    |     |      |    |     |     |    |
|-------|------|----|----|----|-----|------|----|-----|-----|----|
| 30... | 1715 | -- | -- | 70 | 6.7 | 31.5 | -- | 8.0 | 109 | -- |
|-------|------|----|----|----|-----|------|----|-----|-----|----|

340302088263535 - TTW LOCK "A" POOL NAVIGATION MILE 374.9 (LAT 34 03 02 LONG 088 26 35)

JUL , 1985

|       |      |      |    |    |     |      |      |     |     |    |
|-------|------|------|----|----|-----|------|------|-----|-----|----|
| 30... | 1745 | --   | -- | -- | --  | --   | 27.6 | --  | --  | <5 |
| 30... | 1746 | 1.00 | -- | 78 | 7.5 | 31.5 | --   | 9.0 | 123 | -- |
| 30... | 1747 | 5.00 | -- | 75 | 7.2 | 30.0 | --   | 8.5 | 113 | -- |
| 30... | 1748 | 10.0 | -- | 74 | 7.1 | 28.0 | --   | 6.7 | 86  | -- |
| 30... | 1749 | 13.0 | -- | 74 | 7.1 | 28.0 | --   | 6.7 | 86  | -- |

340209088274635 - TTW LOCK "A" POOL STANDIFER CREEK INTAKE (LAT 34 02 09 LONG 088 27 46)

JUL , 1985

|       |      |    |    |    |     |      |    |     |     |    |
|-------|------|----|----|----|-----|------|----|-----|-----|----|
| 30... | 1815 | -- | -- | -- | --  | --   | -- | --  | --  | -- |
| 30... | 1816 | -- | -- | 78 | 7.6 | 30.5 | -- | 7.5 | 100 | -- |

02433480 - STANDIFER CREEK EXIT CHANNEL NR AMORY, MS (LAT 34 02 09 LONG 088 27 46)

JUL , 1985

|       |      |    |     |    |     |      |    |     |     |    |
|-------|------|----|-----|----|-----|------|----|-----|-----|----|
| 30... | 1815 | -- | 3.6 | -- | --  | --   | -- | --  | --  | -- |
| 30... | 1816 | -- | --  | 82 | 7.7 | 31.0 | -- | 7.9 | 107 | -- |

340103088285435 - TTW LOCK "A" POOL SEDIMENTATION RANGE 1AA (LAT 34 01 03 LONG 088 28 54)

JUL , 1985

|       |      |      |    |    |     |      |      |     |     |     |
|-------|------|------|----|----|-----|------|------|-----|-----|-----|
| 30... | 1830 | --   | -- | -- | --  | --   | 34.8 | --  | --  | K52 |
| 30... | 1831 | 1.00 | -- | 76 | 7.2 | 31.5 | --   | 8.5 | 116 | --  |
| 30... | 1832 | 5.00 | -- | 76 | 7.0 | 29.0 | --   | 7.2 | 94  | --  |
| 30... | 1833 | 10.0 | -- | 75 | 6.4 | 28.0 | --   | 5.5 | 71  | --  |
| 30... | 1834 | 15.0 | -- | 75 | 6.4 | 28.0 | --   | 5.7 | 73  | --  |
| 30... | 1835 | 16.0 | -- | 75 | 6.4 | 28.0 | --   | 5.7 | 73  | --  |

340043088292435 - TTW LOCK "A" LOCK SPILLWAY EXIT CHANNEL (LAT 34 00 43 LONG 088 29 24)

JUL , 1985

|       |      |    |    |    |     |      |    |     |     |    |
|-------|------|----|----|----|-----|------|----|-----|-----|----|
| 30... | 1845 | -- | -- | 87 | 7.4 | 29.5 | -- | 7.6 | 100 | -- |
|-------|------|----|----|----|-----|------|----|-----|-----|----|

## TENNESSEE-TOMBIGBEE WATERWAY PROJECT--Continued

| DATE | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | TRANS-<br>PAR-<br>ENCY<br>(SECCHI<br>DISK<br>(IN) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>SATUR-<br>ATION | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) |
|------|------|----------------------------------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|---------------------------------------------------|-------------------------------------|----------------------------------------------|----------------------------------------------------------------|
|------|------|----------------------------------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|---------------------------------------------------|-------------------------------------|----------------------------------------------|----------------------------------------------------------------|

## MOBILE RIVER BASIN--Continued

335708088314835 - TTW ABERDEEN LAKE SEDIMENTATION RANGE 12A (LAT 33 57 08 LONG 088 31 48)

JUL , 1985

|       |      |      |    |     |     |      |      |     |     |    |
|-------|------|------|----|-----|-----|------|------|-----|-----|----|
| 31... | 1120 | --   | -- | --  | --  | --   | 28.8 | --  | --  | <5 |
| 31... | 1121 | 1.00 | -- | 79  | 7.6 | 29.5 | --   | 9.1 | 120 | -- |
| 31... | 1122 | 5.00 | -- | 79  | 7.3 | 29.0 | --   | 8.5 | 111 | -- |
| 31... | 1123 | 10.0 | -- | 79  | 7.1 | 28.0 | --   | 7.5 | 96  | -- |
| 31... | 1124 | 15.0 | -- | 102 | 7.2 | 27.5 | --   | 5.6 | 71  | -- |
| 31... | 1125 | 20.0 | -- | 118 | 7.2 | 27.5 | --   | 5.5 | 70  | -- |
| 31... | 1126 | 25.0 | -- | 126 | 7.1 | 27.0 | --   | 4.0 | 50  | -- |

335655088315735 - TTW ABERDEEN LAKE ROUNDHOUSE BRANCH BENDWAY (LAT 33 56 55 LONG 088 31 57)

JUL , 1985

|       |      |      |    |     |     |      |      |     |     |    |
|-------|------|------|----|-----|-----|------|------|-----|-----|----|
| 31... | 1130 | --   | -- | --  | --  | --   | 16.8 | --  | --  | -- |
| 31... | 1131 | 1.00 | -- | 104 | 7.6 | 30.5 | --   | 9.3 | 125 | -- |
| 31... | 1132 | 5.00 | -- | 108 | 7.2 | 29.0 | --   | 7.7 | 101 | -- |
| 31... | 1133 | 10.0 | -- | 112 | 7.1 | 28.0 | --   | 5.3 | 68  | -- |
| 31... | 1134 | 15.0 | -- | 122 | 7.0 | 27.5 | --   | 2.8 | 36  | -- |
| 31... | 1135 | 18.0 | -- | 133 | 7.0 | 27.0 | --   | .9  | 11  | -- |

335618088320435 - TTW ABERDEEN LAKE BECKER BENDWAY (LAT 33 56 18 LONG 088 32 04)

JUL , 1985

|       |      |      |    |     |     |      |      |     |     |    |
|-------|------|------|----|-----|-----|------|------|-----|-----|----|
| 31... | 1150 | --   | -- | --  | --  | --   | 15.6 | --  | --  | -- |
| 31... | 1151 | 1.00 | -- | 114 | 7.8 | 30.5 | --   | 9.3 | 125 | -- |
| 31... | 1152 | 5.00 | -- | 112 | 7.4 | 28.5 | --   | 6.9 | 89  | -- |
| 31... | 1153 | 10.0 | -- | 112 | 7.2 | 28.0 | --   | 6.1 | 78  | -- |
| 31... | 1154 | 15.0 | -- | 122 | 7.1 | 28.0 | --   | 4.0 | 51  | -- |

335606088315035 - TTW ABERDEEN LAKE WEAVER CREEK BENDWAY 11A (LAT 33 56 06 LONG 088 31 50)

JUL , 1985

|       |      |      |    |     |     |      |      |     |     |    |
|-------|------|------|----|-----|-----|------|------|-----|-----|----|
| 31... | 1200 | --   | -- | --  | --  | --   | 16.8 | --  | --  | -- |
| 31... | 1201 | 1.00 | -- | 105 | 7.9 | 31.0 | --   | 9.3 | 126 | -- |
| 31... | 1202 | 5.00 | -- | 102 | 7.6 | 29.0 | --   | 8.4 | 110 | -- |
| 31... | 1203 | 10.0 | -- | 95  | 7.2 | 28.5 | --   | 6.5 | 84  | -- |
| 31... | 1204 | 13.0 | -- | 70  | 7.0 | 27.5 | --   | 5.8 | 74  | -- |

335513088314835 - TTW ABERDEEN LAKE DRUMMOND BRANCH BENDWAY 10A (LAT 33 55 13 LONG 088 31 48)

JUL , 1985

|       |      |      |    |     |     |      |      |     |     |    |
|-------|------|------|----|-----|-----|------|------|-----|-----|----|
| 31... | 1230 | --   | -- | --  | --  | --   | 16.8 | --  | --  | -- |
| 31... | 1231 | 1.00 | -- | 102 | 8.4 | 31.0 | --   | 9.8 | 132 | -- |
| 31... | 1232 | 5.00 | -- | 102 | 7.6 | 29.0 | --   | 7.7 | 101 | -- |
| 31... | 1233 | 10.0 | -- | 106 | 7.2 | 28.0 | --   | 5.0 | 64  | -- |
| 31... | 1234 | 15.0 | -- | 113 | 7.1 | 27.5 | --   | 3.3 | 42  | -- |
| 31... | 1235 | 17.0 | -- | 113 | 7.1 | 27.5 | --   | 3.3 | 42  | -- |

335442088322035 - TTW ABERDEEN LAKE ACKER LAKE BENDWAY 8A (LAT 33 54 42 LONG 088 32 20)

JUL , 1985

|       |      |      |    |     |     |      |      |      |     |    |
|-------|------|------|----|-----|-----|------|------|------|-----|----|
| 31... | 1300 | --   | -- | --  | --  | --   | 20.4 | --   | --  | -- |
| 31... | 1301 | 1.00 | -- | 107 | 8.5 | 30.0 | --   | 10.4 | 138 | -- |
| 31... | 1302 | 5.00 | -- | 106 | 7.8 | 29.0 | --   | 8.2  | 107 | -- |
| 31... | 1303 | 10.0 | -- | 111 | 7.3 | 28.0 | --   | 5.8  | 74  | -- |
| 31... | 1304 | 15.0 | -- | 111 | 7.1 | 27.5 | --   | 4.7  | 60  | -- |
| 31... | 1305 | 20.0 | -- | 116 | 7.1 | 27.0 | --   | 3.6  | 45  | -- |

## TENNESSEE-TOMBIGBEE WATERWAY PROJECT--Continued

| DATE | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | TRANS-<br>PAR-<br>ENCY<br>(SECCHI<br>DISK)<br>(IN) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION)<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) |
|------|------|----------------------------------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|----------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
|------|------|----------------------------------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|----------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|

## MOBILE RIVER BASIN--Continued

335008088311335 - TTW ABERDEEN LAKE SEDIMENTATION RANGE 1A (LAT 33 50 08 LONG 088 31 13)

JUL , 1985

|       |      |      |    |     |     |      |      |      |     |    |
|-------|------|------|----|-----|-----|------|------|------|-----|----|
| 31... | 1330 | --   | -- | --  | --  | --   | 31.2 | --   | --  | <5 |
| 31... | 1331 | 1.00 | -- | 124 | 8.7 | 32.5 | --   | 10.7 | 148 | -- |
| 31... | 1332 | 5.00 | -- | 124 | 8.3 | 30.0 | --   | 9.7  | 129 | -- |
| 31... | 1333 | 10.0 | -- | 128 | 7.2 | 28.5 | --   | 4.1  | 53  | -- |
| 31... | 1334 | 15.0 | -- | 129 | 7.0 | 27.5 | --   | 2.6  | 33  | -- |

335018088315835 - TTW ABERDEEN LOCK MINIMUM FLOW EXIT CHANNEL (LAT 33 50 18 LONG 088 31 58)

JUL , 1985

|       |      |    |    |     |     |      |    |     |     |    |
|-------|------|----|----|-----|-----|------|----|-----|-----|----|
| 31... | 1415 | -- | -- | 122 | 8.8 | 31.5 | -- | 8.8 | 120 | -- |
|-------|------|----|----|-----|-----|------|----|-----|-----|----|

334803088304235 - TTW COLUMBUS LAKE MORGAN LANDING BENDWAY (LAT 33 48 03 LONG 088 30 42)

AUG , 1985

|       |      |      |    |     |     |      |      |      |     |    |
|-------|------|------|----|-----|-----|------|------|------|-----|----|
| 01... | 1100 | --   | -- | --  | --  | --   | 16.2 | --   | --  | -- |
| 01... | 1101 | 1.00 | -- | 133 | 7.6 | 29.5 | --   | 11.0 | 145 | -- |
| 01... | 1102 | 5.00 | -- | 135 | 7.1 | 29.0 | --   | 9.0  | 117 | -- |
| 01... | 1103 | 8.00 | -- | 136 | 6.9 | 29.0 | --   | 8.2  | 107 | -- |

334755088290935 - TTW COLUMBUS LAKE JAMES CREEK BENDWAY 74A (LAT 33 47 55 LONG 088 29 09)

AUG , 1985

|       |      |      |    |    |     |      |      |      |     |    |
|-------|------|------|----|----|-----|------|------|------|-----|----|
| 01... | 1145 | --   | -- | -- | --  | --   | 19.8 | --   | --  | -- |
| 01... | 1146 | 1.00 | -- | 44 | 8.0 | 30.0 | --   | 10.2 | 135 | -- |
| 01... | 1147 | 5.00 | -- | 44 | 6.8 | 27.0 | --   | 6.0  | 75  | -- |
| 01... | 1148 | 10.0 | -- | 43 | 6.5 | 25.0 | --   | 2.0  | 24  | -- |

334732088300235 - TTW COLUMBUS LAKE SEDIMENTATION RANGE 80A (LAT 33 47 32 LONG 088 30 02)

AUG , 1985

|       |      |      |    |     |     |      |      |      |     |    |
|-------|------|------|----|-----|-----|------|------|------|-----|----|
| 01... | 1115 | --   | -- | --  | --  | --   | 19.8 | --   | --  | K4 |
| 01... | 1116 | 1.00 | -- | 128 | 8.2 | 30.5 | --   | 11.8 | 158 | -- |
| 01... | 1117 | 5.00 | -- | 128 | 7.4 | 29.0 | --   | 9.4  | 123 | -- |
| 01... | 1118 | 10.0 | -- | 129 | 6.7 | 28.0 | --   | 6.2  | 79  | -- |
| 01... | 1119 | 14.0 | -- | 129 | 6.6 | 28.0 | --   | 5.9  | 76  | -- |

334608088293735 - TTW COLUMBUS LAKE DEAD RIVER BENDWAY (LAT 33 46 08 LONG 088 29 37)

AUG , 1985

|       |      |      |    |    |     |      |      |      |     |    |
|-------|------|------|----|----|-----|------|------|------|-----|----|
| 01... | 1315 | --   | -- | -- | --  | --   | 19.2 | --   | --  | -- |
| 01... | 1316 | 1.00 | -- | 53 | 8.4 | 33.5 | --   | 10.7 | 151 | -- |
| 01... | 1317 | 3.00 | -- | 59 | 7.3 | 30.0 | --   | 7.4  | 98  | -- |

334411088292335 - TTW COLUMBUS LAKE LOCKRIDGE CREEK BENDWAY (LAT 33 44 11 LONG 088 29 23)

AUG , 1985

|       |      |      |    |     |     |      |      |      |     |    |
|-------|------|------|----|-----|-----|------|------|------|-----|----|
| 01... | 1400 | --   | -- | --  | --  | --   | 21.6 | --   | --  | -- |
| 01... | 1401 | 1.00 | -- | 130 | 8.5 | 33.5 | --   | 11.4 | 160 | -- |
| 01... | 1402 | 5.00 | -- | 130 | 7.4 | 30.0 | --   | 8.6  | 114 | -- |
| 01... | 1403 | 9.00 | -- | 135 | 6.9 | 29.0 | --   | 2.0  | 26  | -- |

## TENNESSEE-TOMBIGBEE WATERWAY PROJECT--Continued

| DATE | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | TRANS-<br>PAR-<br>ENCY<br>(SECCHI<br>DISK)<br>(IN) | OXYGEN,<br>DIS-<br>SOLVED<br>CENT<br>SATUR-<br>ATION<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>CENT<br>SATUR-<br>ATION<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>UM-MF<br>(COLS./<br>100 ML) |
|------|------|----------------------------------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|----------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|
|------|------|----------------------------------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|----------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|

## MOBILE RIVER BASIN--Continued

334358088295935 - TTW COLUMBUS LAKE NEW HAMILTON BENDWAY (LAT 33 43 58 LONG 088 29 59)

AUG , 1985

|       |      |      |    |     |     |      |      |      |     |    |
|-------|------|------|----|-----|-----|------|------|------|-----|----|
| 01... | 1415 | --   | -- | --  | --  | --   | 12.6 | --   | --  | -- |
| 01... | 1416 | 1.00 | -- | 142 | 8.0 | 33.5 | --   | 10.6 | 149 | -- |
| 01... | 1417 | 3.00 | -- | 138 | 8.0 | 32.0 | --   | 10.7 | 147 | -- |

334325088295135 - TTW COLUMBUS LAKE RICHARDSON LAKE BENDWAY (LAT 33 43 25 LONG 088 29 51)

AUG , 1985

|       |      |      |    |     |     |      |       |      |     |    |
|-------|------|------|----|-----|-----|------|-------|------|-----|----|
| 01... | 1430 | --   | -- | --  | --  | --   | >14.4 | --   | --  | -- |
| 01... | 1431 | 1.00 | -- | 130 | 8.5 | 34.0 | --    | 11.6 | 165 | -- |

334219088281935 - TTW COLUMBUS LAKE MCKINLEY CREEK BENDWAY 50A (LAT 33 42 19 LONG 088 28 19)

AUG , 1985

|       |      |      |    |      |     |      |      |     |     |    |
|-------|------|------|----|------|-----|------|------|-----|-----|----|
| 01... | 1500 | --   | -- | --   | --  | --   | 46.2 | --  | --  | -- |
| 01... | 1501 | 1.00 | -- | 683  | 8.3 | 34.5 | --   | 9.3 | 133 | -- |
| 01... | 1502 | 5.00 | -- | 690  | 8.3 | 32.0 | --   | 9.8 | 135 | -- |
| 01... | 1503 | 10.0 | -- | 1080 | 7.2 | 30.0 | --   | 5.7 | 76  | -- |
| 01... | 1504 | 15.0 | -- | 1000 | 6.7 | 28.5 | --   | .7  | 9   | -- |

334143088290335 - TTW COLUMBUS LAKE CANE CREEK BENDWAY 44A (LAT 33 41 43 LONG 088 29 03)

AUG , 1985

|       |      |      |    |     |     |      |      |      |     |    |
|-------|------|------|----|-----|-----|------|------|------|-----|----|
| 01... | 1515 | --   | -- | --  | --  | --   | 43.2 | --   | --  | -- |
| 01... | 1516 | 1.00 | -- | 152 | 9.0 | 34.5 | --   | 11.7 | 167 | -- |
| 01... | 1517 | 5.00 | -- | 151 | 9.0 | 31.5 | --   | 12.6 | 171 | -- |
| 01... | 1518 | 10.0 | -- | 170 | 7.3 | 29.0 | --   | 4.5  | 59  | -- |
| 01... | 1519 | 12.0 | -- | 174 | 7.1 | 28.5 | --   | 3.4  | 44  | -- |

334118088300335 - TTW COLUMBUS LAKE DENMON CREEK BENDWAY 40A (LAT 33 41 18 LONG 088 30 03)

AUG , 1985

|       |      |      |    |     |     |      |      |      |     |    |
|-------|------|------|----|-----|-----|------|------|------|-----|----|
| 01... | 1540 | --   | -- | --  | --  | --   | 46.2 | --   | --  | -- |
| 01... | 1541 | 1.00 | -- | 137 | 9.0 | 33.5 | --   | 12.0 | 169 | -- |
| 01... | 1542 | 5.00 | -- | 136 | 9.0 | 31.0 | --   | 11.9 | 161 | -- |
| 01... | 1543 | 10.0 | -- | 142 | 7.5 | 29.0 | --   | 4.5  | 59  | -- |
| 01... | 1544 | 15.0 | -- | 144 | 7.1 | 28.5 | --   | 2.8  | 36  | -- |
| 01... | 1545 | 19.0 | -- | 147 | 6.9 | 28.0 | --   | 1.5  | 19  | -- |

334025088292835 - TTW COLUMBUS LAKE VINTON CREEK BENDWAY 35A (LAT 33 40 25 LONG 088 29 28)

AUG , 1985

|       |      |      |    |     |     |      |      |      |     |    |
|-------|------|------|----|-----|-----|------|------|------|-----|----|
| 01... | 1555 | --   | -- | --  | --  | --   | 31.2 | --   | --  | -- |
| 01... | 1556 | 1.00 | -- | 149 | 8.9 | 34.5 | --   | 12.0 | 172 | -- |
| 01... | 1557 | 5.00 | -- | 151 | 8.9 | 31.0 | --   | 11.3 | 153 | -- |
| 01... | 1558 | 10.0 | -- | 165 | 7.3 | 29.0 | --   | 4.1  | 53  | -- |
| 01... | 1559 | 15.0 | -- | 170 | 7.0 | 28.5 | --   | 2.5  | 32  | -- |

333927088304935 - TTW COLUMBUS LAKE BUTTAHATCHEE R BENDWAY 26A (LAT 33 39 27 LONG 088 30 49)

AUG , 1985

|       |      |      |    |     |     |      |      |     |    |    |
|-------|------|------|----|-----|-----|------|------|-----|----|----|
| 02... | 1045 | --   | -- | --  | --  | --   | 21.6 | --  | -- | -- |
| 02... | 1046 | 1.00 | -- | 180 | 7.4 | 28.5 | --   | 7.5 | 97 | -- |
| 02... | 1047 | 5.00 | -- | 178 | 7.3 | 28.5 | --   | 6.9 | 89 | -- |
| 02... | 1048 | 10.0 | -- | 172 | 7.2 | 28.0 | --   | 6.2 | 79 | -- |
| 02... | 1049 | 15.0 | -- | 165 | 7.1 | 28.0 | --   | 5.6 | 72 | -- |
| 02... | 1050 | 17.0 | -- | 165 | 7.1 | 28.0 | --   | 5.0 | 64 | -- |

## TENNESSEE-TOMBIGBEE WATERWAY PROJECT--Continued

| DATE | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | TRANS-<br>PAR-<br>ENCY<br>(SECCHI<br>DISK<br>(IN) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>UM-MF<br>(COLS./<br>100 ML) |
|------|------|----------------------------------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|---------------------------------------------------|----------------------------------------------------------------|-------------------------------------|---------------------------------------------------------|
|------|------|----------------------------------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|---------------------------------------------------|----------------------------------------------------------------|-------------------------------------|---------------------------------------------------------|

## MOBILE RIVER BASIN--Continued

333808088300635 - TTW COLUMBUS LAKE BARTON FERRY BENDWAY (LAT 33 38 08 LONG 088 30 06)

AUG , 1985

|       |      |      |    |     |     |      |      |     |    |    |
|-------|------|------|----|-----|-----|------|------|-----|----|----|
| 02... | 1115 | --   | -- | --  | --  | --   | 18.0 | --  | -- | -- |
| 02... | 1116 | 1.00 | -- | 127 | 7.3 | 28.0 | --   | 7.5 | 96 | -- |
| 02... | 1117 | 5.00 | -- | 126 | 7.2 | 28.0 | --   | 6.9 | 88 | -- |
| 02... | 1118 | 10.0 | -- | 125 | 7.1 | 28.0 | --   | 6.6 | 85 | -- |
| 02... | 1119 | 15.0 | -- | 126 | 7.1 | 28.0 | --   | 6.6 | 85 | -- |
| 02... | 1120 | 20.0 | -- | 122 | 7.1 | 28.0 | --   | 6.5 | 83 | -- |
| 02... | 1121 | 24.0 | -- | 71  | 6.9 | 27.5 | --   | 5.5 | 70 | -- |

333721088301235 - TTW COLUMBUS LAKE TOWN CREEK BENDWAY 16A (LAT 33 37 21 LONG 088 30 12)

AUG , 1985

|       |      |      |    |     |     |      |      |     |     |    |
|-------|------|------|----|-----|-----|------|------|-----|-----|----|
| 02... | 1130 | --   | -- | --  | --  | --   | 19.2 | --  | --  | -- |
| 02... | 1131 | 1.00 | -- | 122 | 7.3 | 28.5 | --   | 7.8 | 101 | -- |
| 02... | 1132 | 5.00 | -- | 122 | 7.3 | 28.5 | --   | 7.4 | 96  | -- |
| 02... | 1133 | 10.0 | -- | 116 | 7.2 | 28.5 | --   | 7.0 | 90  | -- |
| 02... | 1134 | 15.0 | -- | 96  | 7.1 | 28.0 | --   | 6.8 | 87  | -- |
| 02... | 1135 | 20.0 | -- | 86  | 7.0 | 27.5 | --   | 6.0 | 76  | -- |
| 02... | 1136 | 22.0 | -- | 129 | 6.9 | 27.0 | --   | 3.8 | 48  | -- |

333625088284435 - TTW COLUMBUS LAKE STINSON CREEK BENDWAY 10A (LAT 33 36 25 LONG 088 28 44)

AUG , 1985

|       |      |      |    |    |     |      |      |     |     |    |
|-------|------|------|----|----|-----|------|------|-----|-----|----|
| 02... | 1145 | --   | -- | -- | --  | --   | 20.4 | --  | --  | -- |
| 02... | 1146 | 1.00 | -- | 83 | 7.3 | 28.0 | --   | 9.1 | 117 | -- |
| 02... | 1147 | 5.00 | -- | 81 | 7.3 | 28.0 | --   | 7.9 | 101 | -- |
| 02... | 1148 | 10.0 | -- | 75 | 7.1 | 28.0 | --   | 7.5 | 96  | -- |
| 02... | 1149 | 15.0 | -- | 70 | 7.0 | 27.5 | --   | 6.8 | 86  | -- |
| 02... | 1150 | 18.0 | -- | 67 | 6.9 | 27.5 | --   | 6.3 | 80  | -- |

333445088294135 - TTW COLUMBUS LAKE WAVERLY MANSION BENDWAY 7A (LAT 33 34 45 LONG 088 29 41)

AUG , 1985

|       |      |      |    |     |     |      |      |     |     |    |
|-------|------|------|----|-----|-----|------|------|-----|-----|----|
| 02... | 1205 | --   | -- | --  | --  | --   | 20.4 | --  | --  | -- |
| 02... | 1206 | 1.00 | -- | 108 | 7.5 | 29.0 | --   | 9.2 | 120 | -- |
| 02... | 1207 | 5.00 | -- | 96  | 7.4 | 29.0 | --   | 8.0 | 104 | -- |
| 02... | 1208 | 10.0 | -- | 80  | 7.2 | 28.0 | --   | 6.9 | 88  | -- |
| 02... | 1209 | 15.0 | -- | 79  | 7.1 | 28.0 | --   | 6.6 | 85  | -- |
| 02... | 1210 | 20.0 | -- | 77  | 7.0 | 28.0 | --   | 6.6 | 85  | -- |
| 02... | 1211 | 25.0 | -- | 76  | 7.0 | 28.0 | --   | 6.5 | 83  | -- |
| 02... | 1212 | 29.0 | -- | 76  | 6.9 | 28.0 | --   | 6.2 | 79  | -- |

333358088291235 - TTW COLUMBUS LAKE WAVERLY BENDWAY 6A (LAT 33 33 58 LONG 088 29 12)

AUG , 1985

|       |      |      |    |    |     |      |      |     |     |    |
|-------|------|------|----|----|-----|------|------|-----|-----|----|
| 02... | 1310 | --   | -- | -- | --  | --   | 19.2 | --  | --  | -- |
| 02... | 1311 | 1.00 | -- | 90 | 7.5 | 29.0 | --   | 8.9 | 116 | -- |
| 02... | 1312 | 5.00 | -- | 89 | 7.3 | 29.5 | --   | 8.0 | 105 | -- |
| 02... | 1313 | 10.0 | -- | 90 | 7.2 | 28.5 | --   | 7.3 | 94  | -- |
| 02... | 1314 | 15.0 | -- | 87 | 7.1 | 28.5 | --   | 7.1 | 92  | -- |
| 02... | 1315 | 20.0 | -- | 84 | 7.0 | 28.0 | --   | 6.7 | 86  | -- |
| 02... | 1316 | 25.0 | -- | 84 | 7.0 | 28.0 | --   | 6.2 | 79  | -- |
| 02... | 1317 | 28.0 | -- | 84 | 6.8 | 28.0 | --   | 5.4 | 69  | -- |



## TENNESSEE-TOMBIGBEE WATERWAY PROJECT--Continued

| DATE | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | TRANS-<br>PAR-<br>ENCY<br>(SECCHI<br>DISK<br>(IN) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) |
|------|------|----------------------------------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|---------------------------------------------------|----------------------------------------------------------------|-------------------------------------|----------------------------------------------------------------|
|------|------|----------------------------------|-------------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|---------------------------------------------------|----------------------------------------------------------------|-------------------------------------|----------------------------------------------------------------|

## MOBILE RIVER BASIN--Continued

333338088295035 - TTW COLUMBUS LAKE WAVERLY FERRY BENDWAY 5A (LAT 33 33 38 LONG 088 29 50)

AUG , 1985

|       |      |      |    |    |     |      |      |     |     |    |
|-------|------|------|----|----|-----|------|------|-----|-----|----|
| 02... | 1320 | --   | -- | -- | --  | --   | 19.2 | --  | --  | -- |
| 02... | 1321 | 1.00 | -- | 87 | 7.5 | 29.0 | --   | 9.1 | 119 | -- |
| 02... | 1322 | 5.00 | -- | 89 | 7.2 | 28.5 | --   | 7.5 | 97  | -- |
| 02... | 1323 | 10.0 | -- | 87 | 7.1 | 28.5 | --   | 7.0 | 90  | -- |
| 02... | 1324 | 15.0 | -- | 87 | 7.0 | 28.5 | --   | 6.7 | 87  | -- |
| 02... | 1325 | 20.0 | -- | 86 | 7.0 | 28.5 | --   | 6.6 | 85  | -- |
| 02... | 1326 | 25.0 | -- | 86 | 7.0 | 28.5 | --   | 6.5 | 84  | -- |
| 02... | 1327 | 29.0 | -- | 86 | 6.9 | 28.5 | --   | 6.2 | 80  | -- |

333119088291435 - TTW COLUMBUS LAKE SEDIMENTATION RANGE 1A (LAT 33 31 19 LONG 088 29 14)

AUG , 1985

|       |      |      |    |     |     |      |      |     |     |     |
|-------|------|------|----|-----|-----|------|------|-----|-----|-----|
| 02... | 1345 | --   | -- | --  | --  | --   | 20.4 | --  | --  | K10 |
| 02... | 1346 | 1.00 | -- | 127 | 7.6 | 29.0 | --   | 8.3 | 108 | --  |
| 02... | 1347 | 5.00 | -- | 128 | 7.5 | 29.5 | --   | 7.7 | 101 | --  |
| 02... | 1348 | 10.0 | -- | 124 | 7.4 | 29.5 | --   | 7.2 | 95  | --  |
| 02... | 1349 | 15.0 | -- | 119 | 7.3 | 29.0 | --   | 6.9 | 90  | --  |
| 02... | 1350 | 20.0 | -- | 109 | 7.1 | 29.0 | --   | 6.3 | 82  | --  |
| 02... | 1351 | 25.0 | -- | 113 | 7.0 | 28.5 | --   | 5.1 | 66  | --  |
| 02... | 1352 | 27.0 | -- | 123 | 6.8 | 28.0 | --   | 3.0 | 38  | --  |

333114088295935 - TTW COLUMBUS LOCK MINIMUM FLOW EXIT CHANNEL (LAT 33 31 14 LONG 088 29 59)

AUG , 1985

|       |      |    |    |     |     |      |    |     |     |    |
|-------|------|----|----|-----|-----|------|----|-----|-----|----|
| 02... | 1520 | -- | -- | 163 | 8.3 | 30.5 | -- | 8.7 | 116 | -- |
|-------|------|----|----|-----|-----|------|----|-----|-----|----|

## ANALYSES OF SAMPLES COLLECTED DURING SHORT-TERM WATER-QUALITY STUDIES

Stations for short-term water-quality studies were established on selected stream reaches and estuaries to collect water-quality data systematically over a short-term period for use in hydrologic analysis. Data for estuary studies generally are collected once or twice daily at near high and near low tides.

## PASCAGOULA RIVER BASIN

## PASCAGOULA AND ESCATAWPA RIVERS STUDY NEAR PASCAGOULA, MS

## WATER QUALITY DATA, JULY 1985

## 02479341 - PASCAGOULA RIVER AT MI 13 NR COLL TOWN, MS

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) |
|-------|------|----------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|-------------------------------------|
| JUL   |      |                                  |                                                   |                                |                             |                                     |
| 25... | 1656 | 1.00                             | 67                                                | 6.9                            | 28.0                        | 6.4                                 |
| 25... | 1657 | 5.00                             | 67                                                | 6.7                            | 28.0                        | 5.6                                 |
| 25... | 1658 | 10.0                             | 66                                                | 6.6                            | 28.0                        | 5.4                                 |
| 25... | 1659 | 12.0                             | 66                                                | 6.6                            | 28.0                        | 5.4                                 |

## 02479342 - PASCAGOULA RIVER AT MI 12 NR COLL TOWN, MS

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) |
|-------|------|----------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|-------------------------------------|
| JUL   |      |                                  |                                                   |                                |                             |                                     |
| 25... | 1642 | 1.00                             | 667                                               | 6.7                            | 28.5                        | 6.0                                 |
| 25... | 1643 | 5.00                             | 733                                               | 6.5                            | 28.5                        | 5.4                                 |
| 25... | 1644 | 10.0                             | 1030                                              | 6.5                            | 28.5                        | 5.2                                 |
| 25... | 1645 | 15.0                             | 5000                                              | 6.4                            | 28.0                        | 2.7                                 |
| 25... | 1646 | 20.0                             | 25300                                             | 6.7                            | 28.0                        | .4                                  |
| 25... | 1647 | 25.0                             | 26600                                             | 6.9                            | 28.5                        | .2                                  |
| 25... | 1648 | 30.0                             | 27600                                             | 6.9                            | 28.5                        | .2                                  |
| 25... | 1649 | 35.0                             | 27800                                             | 7.0                            | 28.5                        | .2                                  |

## 302822088332500 - PASCAGOULA RIVER AT MI 11

024793422

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) |
|-------|------|----------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|-------------------------------------|
| JUL   |      |                                  |                                                   |                                |                             |                                     |
| 25... | 1635 | 1.00                             | 763                                               | 6.8                            | 28.5                        | 6.0                                 |
| 25... | 1636 | 5.00                             | 800                                               | 6.6                            | 28.5                        | 5.6                                 |
| 25... | 1637 | 10.0                             | 1090                                              | 6.6                            | 28.5                        | 5.4                                 |
| 25... | 1638 | 15.0                             | 14700                                             | 6.7                            | 28.5                        | 1.4                                 |
| 25... | 1639 | 20.0                             | 26000                                             | 6.8                            | 28.5                        | .3                                  |

## 302725088333700 - PASCAGOULA RIVER AT MI 10

024793427

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) |
|-------|------|----------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|-------------------------------------|
| JUL   |      |                                  |                                                   |                                |                             |                                     |
| 25... | 1625 | 1.00                             | 1640                                              | 6.7                            | 28.5                        | 5.7                                 |
| 25... | 1626 | 5.00                             | 1730                                              | 6.7                            | 29.0                        | 5.4                                 |
| 25... | 1627 | 10.0                             | 1800                                              | 6.7                            | 29.0                        | 5.4                                 |
| 25... | 1628 | 15.0                             | 19600                                             | 6.8                            | 28.5                        | .9                                  |
| 25... | 1629 | 17.0                             | 23700                                             | 6.9                            | 28.5                        | .2                                  |

## PASCAGOULA AND ESCATAWPA RIVERS STUDY NEAR PASCAGOULA, MS--Continued

302648088340600 - PASCAGOULA RIVER AT MI 9

024793428

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) |
|-------|------|----------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|-------------------------------------|
| JUL   |      |                                  |                                                   |                                |                             |                                     |
| 25... | 1615 | 1.00                             | 2100                                              | 6.9                            | 29.0                        | 6.1                                 |
| 25... | 1616 | 5.00                             | 2080                                              | 6.8                            | 29.0                        | 5.6                                 |
| 25... | 1617 | 10.0                             | 2080                                              | 6.7                            | 28.5                        | 5.4                                 |
| 25... | 1618 | 15.0                             | 11800                                             | 6.7                            | 28.5                        | 3.0                                 |
| 25... | 1619 | 17.0                             | 24400                                             | 6.9                            | 28.5                        | .5                                  |

02479343

- PASCAGOULA RIVER AT MI 8 NR ESCATAWPA, MS

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) |
|-------|------|----------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|-------------------------------------|
| JUL   |      |                                  |                                                   |                                |                             |                                     |
| 25... | 1606 | 1.00                             | 1820                                              | 6.8                            | 29.0                        | 6.0                                 |
| 25... | 1607 | 5.00                             | 2190                                              | 6.7                            | 29.0                        | 5.4                                 |
| 25... | 1608 | 10.0                             | 3890                                              | 6.6                            | 28.5                        | 4.7                                 |
| 25... | 1609 | 15.0                             | 25200                                             | 6.8                            | 28.5                        | 1.2                                 |
| 25... | 1610 | 20.0                             | 30200                                             | 7.1                            | 28.5                        | .6                                  |
| 25... | 1611 | 25.0                             | 33800                                             | 7.2                            | 28.5                        | .3                                  |

| DATE  | TIME | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>ORTHOPHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |     |
|-------|------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------|-----|
| JUL   |      |                                                      |                                                      |                                                      |                                                      |                                                                     |                                                                      |                                               |     |
| 25... | 1605 | .010                                                 | <.10                                                 | .220                                                 | .18                                                  | .40                                                                 | .020                                                                 | .020                                          | 5.5 |

302526088333600 - PASCAGOULA RIVER AT MI 7

024793431

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) |
|-------|------|----------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|-------------------------------------|
| JUL   |      |                                  |                                                   |                                |                             |                                     |
| 25... | 1600 | 1.00                             | 2480                                              | 6.9                            | 29.0                        | 6.2                                 |
| 25... | 1601 | 5.00                             | 2850                                              | 6.8                            | 29.0                        | 5.7                                 |
| 25... | 1602 | 10.0                             | 3050                                              | 6.8                            | 29.0                        | 5.6                                 |
| 25... | 1603 | 15.0                             | 15000                                             | 6.8                            | 28.5                        | 1.8                                 |

## ANALYSES OF SAMPLES COLLECTED DURING SHORT-TERM WATER-QUALITY STUDIES

## PASCAGOULA AND ESCATAWPA RIVERS STUDY NEAR PASCAGOULA, MS--Continued

302541088290100 - ESCATAWPA RIVER AT MI 7

024802053

|       |      | SPECIFIC CONDUCTANCE (STANDARD PH)   |                                      |                                      |                                      |                                                 | OXYGEN, DIS-SOLVED             |                                       |                                   |
|-------|------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|-------------------------------------------------|--------------------------------|---------------------------------------|-----------------------------------|
|       |      | SAMPLING DEPTH (FEET)                | (US/CM)                              | (STANDARD PH UNITS)                  | TEMPERATURE (DEG C)                  | (MG/L)                                          |                                |                                       |                                   |
| JUL   |      |                                      |                                      |                                      |                                      |                                                 |                                |                                       |                                   |
| 25... | 1911 | 1.00                                 | 66                                   | 5.5                                  | 26.0                                 | 5.3                                             |                                |                                       |                                   |
| 25... | 1912 | 5.00                                 | 66                                   | 5.5                                  | 26.0                                 | 5.0                                             |                                |                                       |                                   |
| 25... | 1913 | 10.0                                 | 65                                   | 5.4                                  | 26.0                                 | 4.9                                             |                                |                                       |                                   |
| 25... | 1914 | 15.0                                 | 65                                   | 5.4                                  | 26.0                                 | 4.9                                             |                                |                                       |                                   |
| 25... | 1915 | 20.0                                 | 64                                   | 5.4                                  | 26.0                                 | 4.9                                             |                                |                                       |                                   |
| 25... | 1916 | 25.0                                 | 64                                   | 5.4                                  | 26.0                                 | 4.8                                             |                                |                                       |                                   |
| 25... | 1917 | 30.0                                 | 64                                   | 5.4                                  | 26.0                                 | 4.8                                             |                                |                                       |                                   |
| 25... | 1918 | 35.0                                 | 64                                   | 5.4                                  | 26.0                                 | 4.8                                             |                                |                                       |                                   |
| 25... | 1919 | 40.0                                 | 63                                   | 5.4                                  | 26.0                                 | 4.7                                             |                                |                                       |                                   |
|       |      |                                      |                                      |                                      |                                      |                                                 |                                |                                       |                                   |
| TIME  |      | NITRO-GEN, NITRITE TOTAL (MG/L AS N) | NITRO-GEN, NO2+N03 TOTAL (MG/L AS N) | NITRO-GEN, AMMONIA TOTAL (MG/L AS N) | NITRO-GEN, ORGANIC TOTAL (MG/L AS N) | NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) | PHOS-PHORUS, TOTAL (MG/L AS P) | PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P) | CARBON, ORGANIC TOTAL (MG/L AS C) |
| JUL   |      |                                      |                                      |                                      |                                      |                                                 |                                |                                       |                                   |
| 25... | 1910 | .010                                 | <.10                                 | .020                                 | .28                                  | .30                                             | <.010                          | <.010                                 | 7.7                               |

302512088292200 - ESCATAWPA RIVER AT MI 6

024802054

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) |
|-------|------|----------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|-------------------------------------|
| JUL   |      |                                  |                                                   |                                |                             |                                     |
| 25... | 1900 | 1.00                             | 222                                               | 5.7                            | 26.0                        | 5.6                                 |
| 25... | 1901 | 5.00                             | 285                                               | 5.6                            | 26.0                        | 5.0                                 |
| 25... | 1902 | 10.0                             | 490                                               | 5.6                            | 26.0                        | 4.8                                 |
| 25... | 1903 | 15.0                             | 627                                               | 5.7                            | 26.0                        | 4.7                                 |
| 25... | 1904 | 17.0                             | 950                                               | 5.7                            | 26.0                        | 4.6                                 |

302515088301300 - ESCATAWPA RIVER AT MI 5

024802055

|       |      | SAM-<br>PLING<br>DEPTH<br>(FEET) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM)    | PH<br>(STAND-<br>ARD<br>UNITS)                       | TEMPER-<br>ATURE<br>(DEG C)                          | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)                  |                                                                     |                                             |                                                       |                                               |
|-------|------|----------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------|-------------------------------------------------------|-----------------------------------------------|
| DATE  | TIME |                                  |                                                      |                                                      |                                                      |                                                      |                                                                     |                                             |                                                       |                                               |
| JUL   |      |                                  |                                                      |                                                      |                                                      |                                                      |                                                                     |                                             |                                                       |                                               |
| 25... | 1851 | 1.00                             | 730                                                  | 6.0                                                  | 26.0                                                 | 4.7                                                  |                                                                     |                                             |                                                       |                                               |
| 25... | 1852 | 5.00                             | 1060                                                 | 5.9                                                  | 26.0                                                 | 4.5                                                  |                                                                     |                                             |                                                       |                                               |
| 25... | 1853 | 10.0                             | 1060                                                 | 5.9                                                  | 26.0                                                 | 4.4                                                  |                                                                     |                                             |                                                       |                                               |
| 25... | 1854 | 15.0                             | 1120                                                 | 5.9                                                  | 26.0                                                 | 4.3                                                  |                                                                     |                                             |                                                       |                                               |
| 25... | 1855 | 20.0                             | 2090                                                 | 6.0                                                  | 26.0                                                 | 4.0                                                  |                                                                     |                                             |                                                       |                                               |
| 25... | 1856 | 25.0                             | 29200                                                | 6.8                                                  | 28.0                                                 | .4                                                   |                                                                     |                                             |                                                       |                                               |
| 25... | 1857 | 30.0                             | 30800                                                | 6.9                                                  | 28.0                                                 | .2                                                   |                                                                     |                                             |                                                       |                                               |
| 25... | 1858 | 35.0                             | 31000                                                | 6.9                                                  | 28.0                                                 | .1                                                   |                                                                     |                                             |                                                       |                                               |
| DATE  |      | TIME                             | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>ORTHO,<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
| JUL   |      |                                  |                                                      |                                                      |                                                      |                                                      |                                                                     |                                             |                                                       |                                               |
| 25... | 1850 | .010                             | <.10                                                 | .410                                                 | .29                                                  | .70                                                  | .100                                                                | .050                                        |                                                       | 9.4                                           |

## PASCAGOULA AND ESCATAWPA RIVERS STUDY NEAR PASCAGOULA, MS--Continued

302528088304400 - ESCATAWPA RIVER AT MI 4

024802057

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) |
|-------|------|----------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|-------------------------------------|
| JUL   |      |                                  |                                                   |                                |                             |                                     |
| 25... | 1843 | 1.00                             | 1270                                              | 6.1                            | 26.5                        | 5.0                                 |
| 25... | 1844 | 5.00                             | 1490                                              | 6.0                            | 26.5                        | 4.4                                 |
| 25... | 1845 | 10.0                             | 1660                                              | 6.0                            | 26.5                        | 4.3                                 |
| 25... | 1846 | 15.0                             | 1880                                              | 6.0                            | 26.5                        | 4.0                                 |
| 25... | 1847 | 20.0                             | 20200                                             | 6.7                            | 26.5                        | .4                                  |
| 25... | 1848 | 25.0                             | 32700                                             | 6.9                            | 28.0                        | .2                                  |
| 25... | 1849 | 28.0                             | 33400                                             | 6.7                            | 28.0                        | .2                                  |

302455088313100 - ESCATAWPA RIVER AT MI 3

024802061

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) |
|-------|------|----------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|-------------------------------------|
| JUL   |      |                                  |                                                   |                                |                             |                                     |
| 25... | 1839 | 1.00                             | 2830                                              | 6.3                            | 26.5                        | 4.4                                 |
| 25... | 1840 | 5.00                             | 3250                                              | 6.3                            | 26.5                        | 3.2                                 |
| 25... | 1841 | 10.0                             | 3770                                              | 6.2                            | 26.5                        | 2.7                                 |
| 25... | 1842 | 13.0                             | 5400                                              | 6.3                            | 26.5                        | 1.5                                 |

| DATE  | TIME | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>ORTHO,<br>TOTAL<br>(MG/L<br>AS P) |
|-------|------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------|-------------------------------------------------------|
| JUL   |      |                                                      |                                                      |                                                      |                                                      |                                                                     |                                             |                                                       |
| 25... | 1838 | .020                                                 | <.10                                                 | .290                                                 | .41                                                  | .70                                                                 | .050                                        | .050                                                  |

302459088320800 - ESCATAWPA RIVER AT MI 2

024802064

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) |
|-------|------|----------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|-------------------------------------|
| JUL   |      |                                  |                                                   |                                |                             |                                     |
| 25... | 1830 | 1.00                             | 4040                                              | 6.5                            | 27.0                        | 3.5                                 |
| 25... | 1831 | 5.00                             | 4380                                              | 6.4                            | 27.0                        | 2.9                                 |
| 25... | 1832 | 10.0                             | 4400                                              | 6.4                            | 27.5                        | 2.6                                 |
| 25... | 1833 | 15.0                             | 6150                                              | 6.4                            | 27.0                        | .7                                  |
| 25... | 1834 | 20.0                             | 29000                                             | 7.0                            | 27.5                        | .3                                  |



## ANALYSES OF SAMPLES COLLECTED DURING SHORT-TERM WATER-QUALITY STUDIES

## PASCAGOULA AND ESCATAWPA RIVERS STUDY NEAR PASCAGOULA, MS--Continued

02480207

- ESCATAWPA RIVER AT MOSS POINT, MS

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) |
|-------|------|----------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|-------------------------------------|
| JUL   |      |                                  |                                                   |                                |                             |                                     |
| 25... | 1721 | 1.00                             | 5500                                              | 6.6                            | 27.5                        | 3.1                                 |
| 25... | 1722 | 5.00                             | 5490                                              | 6.5                            | 27.5                        | 2.5                                 |
| 25... | 1723 | 10.0                             | 5430                                              | 6.4                            | 27.5                        | 2.4                                 |
| 25... | 1724 | 15.0                             | 5600                                              | 6.4                            | 27.5                        | 1.8                                 |
| 25... | 1725 | 20.0                             | 31500                                             | 7.1                            | 28.0                        | .3                                  |
| 25... | 1726 | 25.0                             | 37100                                             | 7.3                            | 28.5                        | .2                                  |

| DATE  | TIME | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>ORTHO,<br>TOTAL<br>(MG/L<br>AS P) |
|-------|------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------|-------------------------------------------------------|
| JUL   |      |                                                      |                                                      |                                                      |                                                      |                                                                     |                                             |                                                       |
| 25... | 1720 | .010                                                 | <.10                                                 | .460                                                 | .34                                                  | .80                                                                 | .040                                        | .050                                                  |

| DATE  | TIME | TUR-<br>BID-<br>ITY<br>(NTU) | HARD-<br>NESS<br>(MG/L<br>AS<br>CAC03) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | PERCENT<br>SODIUM | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>SOLVED<br>(MG/L) |
|-------|------|------------------------------|----------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|------------------------------------------------------------|
| JUL   |      |                              |                                        |                                              |                                                      |                                              |                   |                                                     |                                               |                                                     |                                                            |
| 25... | 1720 | 4.0                          | 750                                    | 55                                           | 150                                                  | 1400                                         | 78                | 66                                                  | 310                                           | 2400                                                | 4520                                                       |

| DATE  | SOLIDS,<br>RESIDUE<br>AT 105<br>DEG. C,<br>SUS-<br>PENDED<br>(MG/L) | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS) | BERYL-<br>LIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS BE) | CADMIUM<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR) | COPPER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) | NICKEL,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS NI) | SELE-<br>NIUM,<br>TOTAL<br>(UG/L<br>AS SE) | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN) |
|-------|---------------------------------------------------------------------|-------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|--------------------------------------------|-------------------------------------------------------|
| JUL   |                                                                     |                                     |                                                                 |                                                         |                                                                |                                                         |                                                       |                                                         |                                                         |                                            |                                                       |
| 25... | 7                                                                   | 1                                   | <10                                                             | 1                                                       | 10                                                             | 3                                                       | 2                                                     | .3                                                      | 2                                                       | <1                                         | 60                                                    |

| DATE  | PARA-<br>CHLORO-<br>META<br>CRESOL<br>TOTAL<br>(UG/L) | PENTA-<br>CHLORO-<br>PHENOL<br>TOTAL<br>(UG/L) | PHENOL<br>(C6H-<br>5OH)<br>TOTAL<br>(UG/L) | 2-<br>CHLORO-<br>PHENOL<br>TOTAL<br>(UG/L) | 2-<br>NITRO-<br>PHENOL<br>TOTAL<br>(UG/L) | 2,4-DI-<br>CHLORO-<br>PHENOL<br>TOTAL<br>(UG/L) | 2,4-DI-<br>METHYL-<br>PHENOL<br>TOTAL<br>(UG/L) | 2,4,-<br>DI-<br>NITRO-<br>PHENOL<br>TOTAL<br>(UG/L) | 2,4,6-<br>TRI-<br>CHLORO-<br>PHENOL<br>TOTAL<br>(UG/L) | 4-<br>NITRO-<br>PHENOL<br>TOTAL<br>(UG/L) | 4,6-<br>DINITRO-<br>-ORTHO-<br>CRESOL<br>TOTAL<br>(UG/L) |
|-------|-------------------------------------------------------|------------------------------------------------|--------------------------------------------|--------------------------------------------|-------------------------------------------|-------------------------------------------------|-------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------|-------------------------------------------|----------------------------------------------------------|
| JUL   |                                                       |                                                |                                            |                                            |                                           |                                                 |                                                 |                                                     |                                                        |                                           |                                                          |
| 25... | <30.0                                                 | <30.0                                          | <5.0                                       | <5.0                                       | <5.0                                      | <5.0                                            | <5.0                                            | <20.0                                               | <20.0                                                  | <30.0                                     | <30.0                                                    |

02480208

- ESCATAWPA RIVER AT MI 0 NR ESCATAWPA, MS

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) |
|-------|------|----------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|-------------------------------------|
| JUL   |      |                                  |                                                   |                                |                             |                                     |
| 25... | 1710 | 1.00                             | 5970                                              | 6.8                            | 27.5                        | 4.0                                 |
| 25... | 1711 | 5.00                             | 5970                                              | 6.6                            | 27.5                        | 2.9                                 |
| 25... | 1712 | 10.0                             | 6110                                              | 6.5                            | 27.5                        | 2.7                                 |
| 25... | 1713 | 15.0                             | 13100                                             | 6.5                            | 27.5                        | .9                                  |
| 25... | 1714 | 20.0                             | 35100                                             | 7.2                            | 28.5                        | .6                                  |
| 25... | 1715 | 25.0                             | 37700                                             | 7.4                            | 28.5                        | .7                                  |
| 25... | 1716 | 30.0                             | 40000                                             | 7.5                            | 28.5                        | .6                                  |

## ANALYSES OF SAMPLES COLLECTED DURING SHORT-TERM WATER-QUALITY STUDIES

229

## PASCAGOULA AND ESCATAWPA RIVERS STUDY NEAR PASCAGOULA, MS--Continued

302507088342800 - PASCAGOULA RIVER AT MI 6

024802082

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) |
|-------|------|----------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|-------------------------------------|
| JUL   |      |                                  |                                                   |                                |                             |                                     |
| 25... | 1554 | 1.00                             | 4250                                              | 6.8                            | 28.5                        | 5.7                                 |
| 25... | 1555 | 5.00                             | 6430                                              | 6.8                            | 28.5                        | 4.7                                 |
| 25... | 1556 | 10.0                             | 9200                                              | 6.7                            | 28.5                        | 3.1                                 |
| 25... | 1557 | 15.0                             | 29400                                             | 7.0                            | 28.0                        | 1.0                                 |

| DATE  | TIME | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>ORTHO,<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------|-------------------------------------------------------|-----------------------------------------------|
| JUL   |      |                                                      |                                                      |                                                      |                                                      |                                                                     |                                             |                                                       |                                               |
| 25... | 1553 | .020                                                 | <.10                                                 | .350                                                 | .05                                                  | .40                                                                 | .100                                        | .060                                                  | 6.2                                           |

302430088350400 - PASCAGOULA RIVER AT MI 5

024802083

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) |
|-------|------|----------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|-------------------------------------|
| JUL   |      |                                  |                                                   |                                |                             |                                     |
| 25... | 1549 | 1.00                             | 6790                                              | 6.9                            | 28.0                        | 4.5                                 |
| 25... | 1550 | 5.00                             | 7940                                              | 6.8                            | 28.0                        | 4.3                                 |
| 25... | 1551 | 10.0                             | 9400                                              | 6.8                            | 28.0                        | 4.1                                 |
| 25... | 1552 | 15.0                             | 26900                                             | 7.1                            | 28.0                        | 1.5                                 |

302345088343800 - PASCAGOULA RIVER AT MI 4

024802087

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) |
|-------|------|----------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|-------------------------------------|
| JUL   |      |                                  |                                                   |                                |                             |                                     |
| 25... | 1543 | 1.00                             | 8600                                              | 7.2                            | 28.0                        | 5.6                                 |
| 25... | 1544 | 5.00                             | 9360                                              | 7.0                            | 28.5                        | 4.8                                 |
| 25... | 1545 | 10.0                             | 12800                                             | 6.9                            | 28.0                        | 3.8                                 |
| 25... | 1546 | 15.0                             | 33100                                             | 7.4                            | 28.0                        | 2.5                                 |
| 25... | 1547 | 20.0                             | 39300                                             | 7.7                            | 28.5                        | 1.9                                 |

| DATE  | TIME | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>ORTHO,<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------|-------------------------------------------------------|-----------------------------------------------|
| JUL   |      |                                                      |                                                      |                                                      |                                                      |                                                                     |                                             |                                                       |                                               |
| 25... | 1542 | .010                                                 | <.10                                                 | .230                                                 | .47                                                  | .70                                                                 | .040                                        | .040                                                  | 8.0                                           |

## ANALYSES OF SAMPLES COLLECTED DURING SHORT-TERM WATER-QUALITY STUDIES

PASCAGOULA AND ESCATAWPA RIVERS STUDY NEAR PASCAGOULA, MS--Continued

302319088335400 - PASCAGOULA RIVER AT MI 3

024802091

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) |
|-------|------|----------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|-------------------------------------|
| JUL   |      |                                  |                                                   |                                |                             |                                     |
| 25... | 1531 | 1.00                             | 11000                                             | 7.2                            | 28.5                        | 7.0                                 |
| 25... | 1532 | 5.00                             | 11400                                             | 7.1                            | 28.5                        | 5.4                                 |
| 25... | 1533 | 10.0                             | 15400                                             | 7.1                            | 28.5                        | 4.7                                 |
| 25... | 1534 | 15.0                             | 34300                                             | 7.5                            | 28.0                        | 2.5                                 |
| 25... | 1535 | 20.0                             | 42700                                             | 7.8                            | 28.5                        | 2.3                                 |
| 25... | 1536 | 25.0                             | 44900                                             | 7.8                            | 28.5                        | 2.2                                 |
| 25... | 1537 | 30.0                             | 45300                                             | 7.8                            | 28.5                        | 2.2                                 |
| 25... | 1538 | 35.0                             | 45500                                             | 7.8                            | 28.5                        | 2.2                                 |
| 25... | 1539 | 40.0                             | 45500                                             | 7.9                            | 28.5                        | 2.2                                 |
| 25... | 1540 | 45.0                             | 45700                                             | 7.9                            | 28.5                        | 2.2                                 |
| 25... | 1541 | 50.0                             | 45700                                             | 7.9                            | 28.5                        | 2.1                                 |

02480210

- PASCAGOULA RIVER AT HWY 90 AT PASCAGOULA, MS

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) |
|-------|------|----------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|-------------------------------------|
| JUL   |      |                                  |                                                   |                                |                             |                                     |
| 25... | 1506 | 1.00                             | 16000                                             | 7.2                            | 28.5                        | 4.9                                 |
| 25... | 1507 | 5.00                             | 17400                                             | 7.2                            | 28.5                        | 4.7                                 |
| 25... | 1508 | 10.0                             | 19000                                             | 7.2                            | 28.5                        | 4.6                                 |
| 25... | 1509 | 15.0                             | 33800                                             | 7.8                            | 28.0                        | 3.2                                 |
| 25... | 1510 | 20.0                             | 45000                                             | 7.9                            | 28.5                        | 2.7                                 |
| 25... | 1511 | 25.0                             | 45500                                             | 7.9                            | 28.5                        | 2.7                                 |

|              | DATE         | TIME                                                                | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)            | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)    | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)           | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P)           | PHOS-<br>PHORUS,<br>ORTHO,<br>TOTAL<br>(MG/L<br>AS P)   | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)           |                                                                    |                                                          |
|--------------|--------------|---------------------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------|
|              | JUL<br>25... | 1505                                                                | <.010                                                | <.10                                                            | .250                                                    | .45                                                            | .70                                                                 | .040                                                  | .040                                                    | 5.9                                                     |                                                                    |                                                          |
| DATE         | TIME         | TUR-<br>BID-<br>ITY<br>(NTU)                                        | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3)               | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA)                    | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG)    | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA)                   | PERCENT<br>SODIUM                                                   | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K)   | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4)           | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)     | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) |                                                          |
| JUL<br>25... | 1505         | 3.0                                                                 | 3300                                                 | 150                                                             | 700                                                     | 5900                                                           | 78                                                                  | 210                                                   | 1800                                                    | 10000                                                   | 21000                                                              |                                                          |
| DATE         | TIME         | SOLIDS,<br>RESIDUE<br>AT 105<br>DEG. C,<br>SUS-<br>PENDED<br>(MG/L) | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS)                  | BERYL-<br>LIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS BE) | CADMIUM<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR) | COPPER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU)             | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG) | NICKEL,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS NI) | SELE-<br>NIUM,<br>TOTAL<br>(UG/L<br>AS SE)                         | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN)    |
| JUL<br>25... | 14           | 2                                                                   | <10                                                  | 2                                                               | 20                                                      | 5                                                              | 6                                                                   | .5                                                    | 6                                                       | <1                                                      | 40                                                                 |                                                          |
| DATE         | TIME         | PARA-<br>CHLORO-<br>META<br>CRESOL<br>TOTAL<br>(UG/L)               | PENTA-<br>CHLORO-<br>PHENOL<br>TOTAL<br>(UG/L)       | PHENOL<br>(C6H-<br>5OH)<br>TOTAL<br>(UG/L)                      | 2-<br>CHLORO-<br>PHENOL<br>TOTAL<br>(UG/L)              | 2-<br>NITRO-<br>PHENOL<br>TOTAL<br>(UG/L)                      | 2,4-DI-<br>CHLORO-<br>PHENOL<br>TOTAL<br>(UG/L)                     | 2,4-DI-<br>METHYL-<br>PHENOL<br>TOTAL<br>(UG/L)       | 2,4,6-<br>DI-<br>NITRO-<br>PHENOL<br>TOTAL<br>(UG/L)    | 2,4,6-<br>TRI-<br>CHLORO-<br>PHENOL<br>TOTAL<br>(UG/L)  | 4-<br>NITRO-<br>PHENOL<br>TOTAL<br>(UG/L)                          | 4,6-<br>DINITRO-<br>-ORTHO-<br>CRESOL<br>TOTAL<br>(UG/L) |
| JUL<br>25... | <30.0        | <30.0                                                               | <5.0                                                 | <5.0                                                            | <5.0                                                    | <5.0                                                           | <5.0                                                                | <5.0                                                  | <20.0                                                   | <20.0                                                   | <30.0                                                              | <30.0                                                    |

## PASCAGOULA AND ESCATAWPA RIVERS STUDY NEAR PASCAGOULA, MS--Continued

02480212 - PASCAGOULA RIVER AT MI 1 AT PASCAGOULA, MS

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) |
|-------|------|----------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|-------------------------------------|
| JUL   |      |                                  |                                                   |                                |                             |                                     |
| 25... | 1451 | 1.00                             | 18700                                             | 7.3                            | 28.0                        | 5.0                                 |
| 25... | 1452 | 5.00                             | 20200                                             | 7.3                            | 28.0                        | 4.6                                 |
| 25... | 1453 | 10.0                             | 31000                                             | 7.7                            | 28.0                        | 3.6                                 |
| 25... | 1454 | 15.0                             | 44800                                             | 7.9                            | 28.5                        | 3.3                                 |
| 25... | 1455 | 20.0                             | 45800                                             | 8.0                            | 28.5                        | 3.1                                 |
| 25... | 1456 | 25.0                             | 46700                                             | 8.0                            | 28.5                        | 2.8                                 |
| 25... | 1457 | 30.0                             | 47200                                             | 7.9                            | 28.5                        | 2.4                                 |
| 25... | 1458 | 35.0                             | 47400                                             | 7.9                            | 28.5                        | 2.2                                 |
| 25... | 1459 | 40.0                             | 47600                                             | 7.9                            | 28.5                        | 2.0                                 |
| 25... | 1500 | 43.0                             | 47600                                             | 7.8                            | 28.5                        | 1.6                                 |

02480215 - PASCAGOULA RIVER AT MI 0 AT PASCAGOULA, MS

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) |
|-------|------|----------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|-------------------------------------|
| JUL   |      |                                  |                                                   |                                |                             |                                     |
| 25... | 1431 | 1.00                             | 24400                                             | 7.7                            | 28.5                        | 6.1                                 |
| 25... | 1432 | 5.00                             | 27000                                             | 7.7                            | 28.5                        | 5.3                                 |
| 25... | 1433 | 10.0                             | 31300                                             | 7.9                            | 28.5                        | 5.1                                 |
| 25... | 1434 | 15.0                             | 43000                                             | 8.0                            | 28.5                        | 4.1                                 |
| 25... | 1435 | 20.0                             | 44800                                             | 8.0                            | 28.5                        | 4.2                                 |
| 25... | 1436 | 25.0                             | 45700                                             | 8.1                            | 28.5                        | 4.6                                 |
| 25... | 1437 | 30.0                             | 46700                                             | 8.0                            | 28.5                        | 4.0                                 |
| 25... | 1438 | 35.0                             | 47600                                             | 7.9                            | 28.5                        | 2.3                                 |
| 25... | 1439 | 40.0                             | 47800                                             | 7.9                            | 28.0                        | 1.7                                 |
| 25... | 1440 | 43.0                             | 47900                                             | 7.9                            | 28.0                        | 1.6                                 |

| DATE  | TIME | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>ORTHO,<br>TOTAL<br>(MG/L<br>AS P) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C) |
|-------|------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------|-------------------------------------------------------|-----------------------------------------------|
| JUL   |      |                                                      |                                                      |                                                      |                                                      |                                                                     |                                             |                                                       |                                               |
| 25... | 1430 | <.010                                                | <.10                                                 | .140                                                 | .36                                                  | .50                                                                 | .050                                        | .050                                                  | 4.1                                           |

## ANALYSES OF SAMPLES COLLECTED DURING SHORT-TERM WATER-QUALITY STUDIES

## YAZOO RIVER BASIN

## YAZOO RIVER STUDY NEAR GREENWOOD, MS

## WATER QUALITY DATA, OCTOBER 1984 TO MARCH 1985

07281610

- TALLAHATCHIE R AB PEMBERTON CUT NR GREENWOOD, MS

| DATE         | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(UMHOS) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | OXYGEN<br>DEMAND,<br>CHEM-<br>ICAL<br>(HIGH<br>LEVEL)<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | STREP-<br>TOCOCCI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML) |
|--------------|------|---------------------------------------------------|--------------------------------|-----------------------------|-------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|
| OCT<br>18... | 0930 | 91                                                | 6.9                            | 22.0                        | 3.7                                 | 42                                                             | 19                                                              | 2.5                                                            | 260                                                            | 1000                                                               |
| NOV<br>15... | 0915 | 62                                                | 6.8                            | 14.0                        | 9.5                                 | 92                                                             | 18                                                              | 1.6                                                            | 130                                                            | 200                                                                |
| DEC<br>18... | 0900 | 49                                                | 7.5                            | 12.0                        | 10.7                                | 99                                                             | 22                                                              | 2.9                                                            | K85                                                            | K410                                                               |
| FEB<br>13... | 1430 | 60                                                | 6.9                            | 3.0                         | 11.5                                | 85                                                             | 30                                                              | 2.6                                                            | 540                                                            | K2400                                                              |
| MAR<br>11... | 1530 | 56                                                | 6.9                            | 15.0                        | 8.5                                 | 85                                                             | 10                                                              | 2.9                                                            | 220                                                            | K45                                                                |

| DATE         | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CACO3) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | ALKA-<br>LINITY<br>LAB<br>(MG/L<br>AS<br>CACO3) | SOLIDS,<br>RESIDUE<br>AT 105<br>DEG. C.<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>RESIDUE<br>AT 105<br>DEG. C.<br>TOTAL<br>(MG/L) | SOLIDS,<br>VOLA-<br>TILE ON<br>IGNI-<br>TION,<br>TOTAL<br>(MG/L) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) |
|--------------|----------------------------------------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|-------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| OCT<br>18... | 35                                     | 0                                                      | 9.2                                          | 3.0                                                  | 37                                              | 73                                                                  | 752                                                        | 52                                                               | .10                                                  | .130                                                 |
| NOV<br>15... | 26                                     | 0                                                      | 6.6                                          | 2.2                                                  | 25                                              | 53                                                                  | 222                                                        | 37                                                               | .20                                                  | .290                                                 |
| DEC<br>18... | 19                                     | 2                                                      | 4.7                                          | 1.7                                                  | 17                                              | 58                                                                  | 193                                                        | 28                                                               | .30                                                  | .040                                                 |
| FEB<br>13... | 22                                     | --                                                     | 5.4                                          | 2.0                                                  | --                                              | 60                                                                  | 66                                                         | 22                                                               | .40                                                  | .140                                                 |
| MAR<br>11... | 22                                     | 3                                                      | 5.6                                          | 1.9                                                  | 19                                              | 44                                                                  | 336                                                        | 49                                                               | .40                                                  | .200                                                 |

| DATE         | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>ORTHO,<br>TOTAL<br>(MG/L<br>AS P) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | CARBON,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS C) | CHLOR-A<br>PHYTO-<br>PLANK-<br>TON<br>CHROMO<br>FLUOROM<br>(UG/L) | CHLOR-B<br>PHYTO-<br>PLANK-<br>TON<br>CHROMO<br>FLUOROM<br>(UG/L) |
|--------------|------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|-------------------------------------------------------|--------------------------------------------|------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|
| OCT<br>18... | 1.6                                                  | 1.7                                                                 | 1.8                                       | .160                                        | .120                                                  | 110                                        | 38                                                   | 7.5                                                    | 2.60                                                              | <.100                                                             |
| NOV<br>15... | .61                                                  | .90                                                                 | 1.1                                       | .200                                        | .120                                                  | 52                                         | 7                                                    | 4.7                                                    | 4.60                                                              | <.100                                                             |
| DEC<br>18... | .56                                                  | .60                                                                 | .90                                       | .140                                        | .070                                                  | 110                                        | 11                                                   | 4.1                                                    | 5.60                                                              | <.100                                                             |
| FEB<br>13... | 1.2                                                  | 1.3                                                                 | 1.7                                       | .190                                        | .080                                                  | 490                                        | 61                                                   | 5.4                                                    | 2.90                                                              | <.100                                                             |
| MAR<br>11... | .90                                                  | 1.1                                                                 | 1.5                                       | .260                                        | .170                                                  | 590                                        | 33                                                   | 4.7                                                    | 7.90                                                              | <.100                                                             |



## YAZOO RIVER STUDY NEAR GREENWOOD, MS--Continued

07281615

- TALLAHATCHIE RIVER AT GREENWOOD, MS

| DATE         | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(UMHOS) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | OXYGEN<br>DEMAND,<br>CHEM-<br>ICAL<br>(HIGH<br>LEVEL)<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | STREP-<br>TOCOCCI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML) |
|--------------|------|---------------------------------------------------|--------------------------------|-----------------------------|-------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|
| OCT<br>18... | 1000 | 94                                                | 7.0                            | 22.5                        | 3.9                                 | 45                                                             | 20                                                              | 2.6                                                            | 580                                                            | 630                                                                |
| NOV<br>15... | 0930 | 64                                                | 7.3                            | 14.0                        | 9.4                                 | 91                                                             | 20                                                              | 2.0                                                            | 230                                                            | 220                                                                |
| DEC<br>18... | 0930 | 49                                                | 7.4                            | 12.0                        | 10.7                                | 99                                                             | 22                                                              | 2.6                                                            | 130                                                            | 340                                                                |
| FEB<br>13... | 1500 | 59                                                | 6.9                            | 3.5                         | 11.5                                | 86                                                             | 17                                                              | 2.5                                                            | 560                                                            | K2600                                                              |
| MAR<br>11... | 1600 | 55                                                | 6.9                            | 15.0                        | 8.6                                 | 86                                                             | 17                                                              | 2.3                                                            | 160                                                            | K12                                                                |

| DATE         | HARD-<br>NESS<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CAC03) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | ALKA-<br>LINITY<br>LAB<br>(MG/L<br>AS<br>CAC03) | SOLIDS,<br>RESIDUE<br>AT 105<br>DEG. C,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>RESIDUE<br>AT 105<br>DEG. C,<br>TOTAL<br>(MG/L) | SOLIDS,<br>VOLA-<br>TILE ON<br>IGNI-<br>TION,<br>TOTAL<br>(MG/L) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) |
|--------------|----------------------------------------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|-------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| OCT<br>18... | 37                                     | 0                                                      | 9.6                                          | 3.1                                                  | 39                                              | 74                                                                  | 428                                                        | 42                                                               | <.10                                                 | .120                                                 |
| NOV<br>15... | 25                                     | 0                                                      | 6.5                                          | 2.2                                                  | 25                                              | 56                                                                  | 85                                                         | 34                                                               | .20                                                  | .260                                                 |
| DEC<br>18... | 18                                     | 1                                                      | 4.6                                          | 1.6                                                  | 17                                              | 51                                                                  | 164                                                        | 24                                                               | .20                                                  | .040                                                 |
| FEB<br>13... | 22                                     | 5                                                      | 5.5                                          | 2.0                                                  | 17                                              | 64                                                                  | 408                                                        | 40                                                               | .40                                                  | .140                                                 |
| MAR<br>11... | 22                                     | 4                                                      | 5.5                                          | 2.0                                                  | 18                                              | 55                                                                  | 272                                                        | 42                                                               | .40                                                  | .190                                                 |

| DATE         | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>ORTHO,<br>TOTAL<br>(MG/L<br>AS P) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | CARBON,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS C) | CHLOR-A<br>PHYTO-<br>PLANK-<br>TON<br>CHROMO<br>FLUOROM<br>(UG/L) | CHLOR-B<br>PHYTO-<br>PLANK-<br>TON<br>CHROMO<br>FLUOROM<br>(UG/L) |
|--------------|------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|-------------------------------------------------------|--------------------------------------------|------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|
| OCT<br>18... | 1.2                                                  | 1.3                                                                 | --                                        | .130                                        | .120                                                  | 260                                        | 44                                                   | 6.5                                                    | 3.60                                                              | <.100                                                             |
| NOV<br>15... | .64                                                  | .90                                                                 | 1.1                                       | .120                                        | .110                                                  | 40                                         | 5                                                    | 5.0                                                    | 5.20                                                              | <.100                                                             |
| DEC<br>18... | .56                                                  | .60                                                                 | .80                                       | .140                                        | .110                                                  | 59                                         | 8                                                    | 4.3                                                    | 4.60                                                              | <.100                                                             |
| FEB<br>13... | 1.2                                                  | 1.3                                                                 | 1.7                                       | .180                                        | .100                                                  | 510                                        | 54                                                   | 5.6                                                    | 2.90                                                              | <.100                                                             |
| MAR<br>11... | .81                                                  | 1.0                                                                 | 1.4                                       | .270                                        | .160                                                  | 600                                        | 18                                                   | 5.2                                                    | 6.60                                                              | <.100                                                             |

## ANALYSES OF SAMPLES COLLECTED DURING SHORT-TERM WATER-QUALITY STUDIES

## YAZOO RIVER STUDY NEAR GREENWOOD, MS--Continued

07286965

- YALOBUSHA RIVER AT MOUTH NR GREENWOOD, MS

| DATE      | TIME | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DIS-SOLVED (MG/L) | OXYGEN, DIS-SOLVED (PER-CENT SATURATION) | OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) | OXYGEN DEMAND, BIO-CHEMICAL, 5 DAY (MG/L) | COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) | STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML) |
|-----------|------|------------------------------|---------------------|---------------------|---------------------------|------------------------------------------|---------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------------|
| OCT 18... | 1020 | 49                           | 6.9                 | 21.0                | 7.5                       | 84                                       | 22                                          | 2.4                                       | 2300                                      | 7500                                            |
| NOV 15... | 0945 | 65                           | 7.3                 | 14.5                | 9.7                       | 95                                       | 16                                          | 2.2                                       | 180                                       | 140                                             |
| DEC 18... | 0950 | 62                           | 7.6                 | 12.0                | 10.6                      | 98                                       | 25                                          | 2.7                                       | K33                                       | 200                                             |
| FEB 13... | 1515 | 54                           | 6.9                 | 4.0                 | 11.7                      | 89                                       | 20                                          | 2.0                                       | 450                                       | 1600                                            |
| MAR 11... | 1615 | 55                           | 6.9                 | 15.5                | 9.0                       | 90                                       | 17                                          | 2.6                                       | 110                                       | K30                                             |

| DATE      | HARDNESS (MG/L AS CaCO3) | HARDNESS, NONCARBONATE (MG/L CaCO3) | CALCIUM, DIS-SOLVED (MG/L AS Ca) | MAGNESIUM, DIS-SOLVED (MG/L AS Mg) | ALKALINITY LAB (MG/L AS CaCO3) | SOLIDS, RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L) | SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) | SOLIDS, VOLATILE ON IGNITION, TOTAL (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) |
|-----------|--------------------------|-------------------------------------|----------------------------------|------------------------------------|--------------------------------|--------------------------------------------------|---------------------------------------------|--------------------------------------------|-------------------------------------|-------------------------------------|
| OCT 18... | 17                       | 4                                   | 3.9                              | 1.7                                | 13                             | 54                                               | 629                                         | 59                                         | .20                                 | .140                                |
| NOV 15... | 21                       | 4                                   | 5.1                              | 2.1                                | 17                             | 48                                               | 192                                         | 29                                         | <.10                                | .160                                |
| DEC 18... | 21                       | 6                                   | 4.8                              | 2.1                                | 15                             | 54                                               | 182                                         | 28                                         | <.10                                | .050                                |
| FEB 13... | 18                       | 6                                   | 4.1                              | 1.8                                | 12                             | 42                                               | 230                                         | 34                                         | .20                                 | .170                                |
| MAR 11... | 17                       | 7                                   | 4.0                              | 1.7                                | 10                             | 56                                               | 184                                         | 30                                         | .20                                 | .140                                |

| DATE      | NITROGEN, ORGANIC TOTAL (MG/L AS N) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) | NITROGEN, TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | PHOSPHORUS, ORTHO, TOTAL (MG/L AS P) | IRON, DIS-SOLVED (UG/L AS Fe) | MANGANESE, DIS-SOLVED (UG/L AS Mn) | CARBON, ORGANIC DIS-SOLVED (MG/L AS C) | CHLOROPHYLL-A, PHYTOPLANKTON CHROMO FLUOROM (UG/L) | CHLOROPHYLL-B, PHYTOPLANKTON CHROMO FLUOROM (UG/L) |
|-----------|-------------------------------------|-----------------------------------------------|-----------------------------|-------------------------------|--------------------------------------|-------------------------------|------------------------------------|----------------------------------------|----------------------------------------------------|----------------------------------------------------|
| OCT 18... | 1.3                                 | 1.4                                           | 1.6                         | .180                          | --                                   | 150                           | 19                                 | 5.6                                    | 3.70                                               | <.100                                              |
| NOV 15... | .34                                 | .50                                           | --                          | .110                          | .050                                 | 55                            | 23                                 | 4.9                                    | 8.50                                               | <.100                                              |
| DEC 18... | .65                                 | .70                                           | --                          | .080                          | .050                                 | 46                            | 28                                 | 4.7                                    | 6.20                                               | <.100                                              |
| FEB 13... | 1.0                                 | 1.2                                           | 1.4                         | <.200                         | .060                                 | 450                           | 130                                | 5.9                                    | 2.20                                               | <.100                                              |
| MAR 11... | .86                                 | 1.0                                           | 1.2                         | .120                          | .090                                 | 84                            | 40                                 | 5.2                                    | 6.20                                               | <.100                                              |

## ANALYSES OF SAMPLES COLLECTED DURING SHORT-TERM WATER-QUALITY STUDIES

235

## YAZOO RIVER STUDY NEAR GREENWOOD, MS--Continued

07286985

- YAZOO RIVER BL GRENADA JUNCTION NR GREENWOOD, MS

| DATE         | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(UMHOS) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | OXYGEN<br>DEMAND,<br>CHEM-<br>ICAL<br>(HIGH<br>LEVEL)<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | STREP-<br>TOCOCCI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML) |
|--------------|------|---------------------------------------------------|--------------------------------|-----------------------------|-------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|
| OCT<br>18... | 1045 | 86                                                | 7.0                            | 22.0                        | 4.5                                 | 51                                                             | 20                                                              | 2.1                                                            | K1600                                                          | 1600                                                               |
| NOV<br>15... | 1000 | 65                                                | 7.3                            | 14.0                        | 9.3                                 | 90                                                             | 25                                                              | 2.0                                                            | 550                                                            | 180                                                                |
| DEC<br>18... | 1000 | 51                                                | 7.7                            | 12.0                        | 9.9                                 | 91                                                             | 25                                                              | 3.3                                                            | K59                                                            | 220                                                                |
| FEB<br>13... | 1525 | 59                                                | 6.9                            | 3.5                         | 11.3                                | 85                                                             | 20                                                              | 2.1                                                            | 480                                                            | K2700                                                              |
| MAR<br>11... | 1630 | 55                                                | 7.0                            | 15.0                        | 8.7                                 | 86                                                             | 13                                                              | 2.2                                                            | 100                                                            | K15                                                                |

| DATE         | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CACO3) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | ALKA-<br>LINITY<br>LAB<br>(MG/L<br>AS<br>CACO3) | SOLIDS,<br>RESIDUE<br>AT 105<br>DEG. C,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>RESIDUE<br>AT 105<br>DEG. C,<br>TOTAL<br>(MG/L) | SOLIDS,<br>VOLA-<br>TILE ON<br>IGNI-<br>TION,<br>TOTAL<br>(MG/L) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) |
|--------------|----------------------------------------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|-------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| OCT<br>18... | 34                                     | 0                                                      | 8.8                                          | 3.0                                                  | 35                                              | 70                                                                  | 556                                                        | 50                                                               | .10                                                  | .120                                                 |
| NOV<br>15... | 24                                     | 0                                                      | 6.1                                          | 2.2                                                  | 24                                              | 53                                                                  | 301                                                        | 34                                                               | .20                                                  | .210                                                 |
| DEC<br>18... | 19                                     | 2                                                      | 4.7                                          | 1.8                                                  | 17                                              | 49                                                                  | 128                                                        | 27                                                               | .10                                                  | .030                                                 |
| FEB<br>13... | 20                                     | 4                                                      | 4.9                                          | 1.9                                                  | 16                                              | 62                                                                  | 380                                                        | 44                                                               | .30                                                  | .120                                                 |
| MAR<br>11... | 21                                     | 5                                                      | 5.1                                          | 1.9                                                  | 16                                              | 57                                                                  | 283                                                        | 40                                                               | .40                                                  | .180                                                 |

| DATE         | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>ORTHO,<br>TOTAL<br>(MG/L<br>AS P) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | CARBON,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS C) | CHLOR-A<br>PHYTO-<br>PLANK-<br>TON<br>CHROMO<br>FLUOROM<br>(UG/L) | CHLOR-B<br>PHYTO-<br>PLANK-<br>TON<br>CHROMO<br>FLUOROM<br>(UG/L) |
|--------------|------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|-------------------------------------------------------|--------------------------------------------|------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|
| OCT<br>18... | 1.3                                                  | 1.4                                                                 | 1.5                                       | .130                                        | .110                                                  | 170                                        | 49                                                   | 6.7                                                    | 4.20                                                              | <.100                                                             |
| NOV<br>15... | .39                                                  | .60                                                                 | .80                                       | .060                                        | .070                                                  | 40                                         | 12                                                   | 5.2                                                    | 6.10                                                              | <.100                                                             |
| DEC<br>18... | .47                                                  | .50                                                                 | .60                                       | .160                                        | .060                                                  | 200                                        | 19                                                   | 4.0                                                    | 6.20                                                              | <.100                                                             |
| FEB<br>13... | 1.3                                                  | 1.4                                                                 | 1.7                                       | .150                                        | .070                                                  | 440                                        | 95                                                   | --                                                     | 2.90                                                              | <.100                                                             |
| MAR<br>11... | 1.1                                                  | 1.3                                                                 | 1.7                                       | .210                                        | .150                                                  | 550                                        | 24                                                   | 4.9                                                    | <.100                                                             | <.100                                                             |

## ANALYSES OF SAMPLES COLLECTED DURING SHORT-TERM WATER-QUALITY STUDIES

## YAZOO RIVER STUDY NEAR GREENWOOD, MS--Continued

07287002

- YAZOO RIVER AT US 49 BYPASS AT GREENWOOD, MS

| DATE      | TIME | SPECIFIC CONDUCTANCE (UMHOS) | PH (STANDARD UNITS) | TEMPERATURE (DEG C) | OXYGEN, DISSOLVED (MG/L) | OXYGEN, DISSOLVED (PERCENT SATURATION) | OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) | OXYGEN DEMAND, BIO-CHEMICAL, 5 DAY (MG/L) | COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) | STREPTOCOCCI, KF AGAR (COLS. PER 100 ML) |
|-----------|------|------------------------------|---------------------|---------------------|--------------------------|----------------------------------------|---------------------------------------------|-------------------------------------------|-------------------------------------------|------------------------------------------|
| OCT 18... | 1100 | 86                           | 7.0                 | 22.0                | 4.8                      | 55                                     | 26                                          | 1.9                                       | K1300                                     | 2500                                     |
| NOV 15... | 1015 | 65                           | 7.3                 | 14.0                | 9.4                      | 91                                     | 22                                          | 1.7                                       | 380                                       | 140                                      |
| DEC 18... | 1045 | 54                           | 7.7                 | 12.5                | 9.9                      | 92                                     | 27                                          | 3.0                                       | K270                                      | 500                                      |
| FEB 13... | 1530 | 59                           | 6.9                 | 3.5                 | 11.4                     | 85                                     | 27                                          | 2.5                                       | 450                                       | K2400                                    |
| MAR 11... | 1645 | 55                           | 7.0                 | 15.0                | 8.7                      | 86                                     | 13                                          | 2.7                                       | 190                                       | K67                                      |

| DATE      | HARDNESS (MG/L AS CaCO3) | HARDNESS, NONCARBONATE (MG/L AS CaCO3) | CALCIUM DISSOLVED (MG/L AS Ca) | MAGNESIUM, DISSOLVED (MG/L AS Mg) | ALKALINITY LAB (MG/L AS CaCO3) | SOLIDS, RESIDUE AT 105 DEG. C, DISSOLVED (MG/L) | SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) | SOLIDS, VOLATILE ON IGNITION, TOTAL (MG/L) | NITROGEN, NO2+NO3 TOTAL (MG/L AS N) | NITROGEN, AMMONIA TOTAL (MG/L AS N) |
|-----------|--------------------------|----------------------------------------|--------------------------------|-----------------------------------|--------------------------------|-------------------------------------------------|---------------------------------------------|--------------------------------------------|-------------------------------------|-------------------------------------|
| OCT 18... | 34                       | 0                                      | 8.8                            | 2.9                               | 34                             | 72                                              | 594                                         | 52                                         | .10                                 | .180                                |
| NOV 15... | 24                       | 1                                      | 6.1                            | 2.2                               | 23                             | 58                                              | 238                                         | 38                                         | .20                                 | .220                                |
| DEC 18... | 19                       | 2                                      | 4.7                            | 1.8                               | 17                             | 50                                              | 170                                         | 26                                         | .10                                 | .050                                |
| FEB 13... | 20                       | --                                     | 5.0                            | 1.9                               | --                             | 59                                              | 384                                         | 39                                         | .30                                 | .110                                |
| MAR 11... | 21                       | 5                                      | 5.1                            | 1.9                               | 16                             | 56                                              | 272                                         | 38                                         | .30                                 | .170                                |

| DATE      | NITROGEN, ORGANIC TOTAL (MG/L AS N) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) | NITROGEN, TOTAL (MG/L AS N) | PHOSPHORUS, TOTAL (MG/L AS P) | PHOSPHORUS, ORTHO, TOTAL (MG/L AS P) | IRON, DISSOLVED (UG/L AS FE) | MANGANESE, DISSOLVED (UG/L AS MN) | CARBON, ORGANIC DISSOLVED (MG/L AS C) | CHLOROPHYTO-PLANKTON CHROMO FLUOROM (UG/L) | CHLOROPHYTO-PLANKTON CHROMO FLUOROM (UG/L) |
|-----------|-------------------------------------|-----------------------------------------------|-----------------------------|-------------------------------|--------------------------------------|------------------------------|-----------------------------------|---------------------------------------|--------------------------------------------|--------------------------------------------|
| OCT 18... | 1.1                                 | 1.3                                           | 1.4                         | .170                          | --                                   | 94                           | 41                                | 6.6                                   | 4.20                                       | <.100                                      |
| NOV 15... | .28                                 | .50                                           | .70                         | .130                          | .100                                 | 110                          | 8                                 | 4.6                                   | 6.10                                       | <.100                                      |
| DEC 18... | .45                                 | .50                                           | .60                         | .150                          | .080                                 | 39                           | 12                                | 4.5                                   | 4.90                                       | <.100                                      |
| FEB 13... | .49                                 | .60                                           | .90                         | .180                          | .090                                 | 510                          | 84                                | 6.1                                   | 2.20                                       | <.100                                      |
| MAR 11... | .63                                 | .80                                           | 1.1                         | .230                          | .140                                 | 610                          | 25                                | 5.2                                   | 5.70                                       | <.100                                      |

## YAZOO RIVER STUDY NEAR GREENWOOD, MS--Continued

07287005

- YAZOO RIVER AB PEMBERTON CUT NR GREENWOOD, MS

| DATE         | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(UMHOS) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | OXYGEN,<br>DIS-<br>SOLVED<br>(PER-<br>CENT<br>SATUR-<br>ATION) | OXYGEN<br>DEMAND,<br>CHEM-<br>ICAL<br>(HIGH<br>LEVEL)<br>(MG/L) | OXYGEN<br>DEMAND,<br>BIO-<br>CHEM-<br>ICAL,<br>5 DAY<br>(MG/L) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML) | STREP-<br>TOCOCCI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML) |
|--------------|------|---------------------------------------------------|--------------------------------|-----------------------------|-------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|
| OCT<br>18... | 1115 | 86                                                | 7.0                            | 22.0                        | 4.6                                 | 53                                                             | 20                                                              | 2.2                                                            | K1600                                                          | 1500                                                               |
| NOV<br>15... | 1045 | 66                                                | 7.3                            | 14.0                        | 9.5                                 | 92                                                             | 15                                                              | 1.8                                                            | 420                                                            | 190                                                                |
| DEC<br>18... | 1110 | 52                                                | 7.7                            | 12.5                        | 9.8                                 | 91                                                             | 23                                                              | 3.4                                                            | 150                                                            | 300                                                                |
| FEB<br>13... | 1550 | 59                                                | 7.0                            | 3.5                         | 11.4                                | 85                                                             | <10                                                             | 2.2                                                            | 500                                                            | K2800                                                              |
| MAR<br>11... | 1700 | 55                                                | 7.0                            | 15.0                        | 8.8                                 | 87                                                             | 10                                                              | 2.4                                                            | 210                                                            | 230                                                                |

| DATE         | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CACO3) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | ALKA-<br>LINITY<br>LAB<br>(MG/L<br>AS<br>CACO3) | SOLIDS,<br>RESIDUE<br>AT 105<br>DEG. C,<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>RESIDUE<br>AT 105<br>DEG. C,<br>TOTAL<br>(MG/L) | SOLIDS,<br>VOLA-<br>TILE ON<br>IGNI-<br>TION,<br>TOTAL<br>(MG/L) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N) |
|--------------|----------------------------------------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|-------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| OCT<br>18... | 34                                     | 0                                                      | 8.7                                          | 2.9                                                  | 34                                              | 70                                                                  | 455                                                        | 47                                                               | .10                                                  | .130                                                 |
| NOV<br>15... | 24                                     | 0                                                      | 6.1                                          | 2.2                                                  | 24                                              | 56                                                                  | 232                                                        | 35                                                               | .20                                                  | .170                                                 |
| DEC<br>18... | 19                                     | 3                                                      | 4.7                                          | 1.8                                                  | 16                                              | 48                                                                  | 181                                                        | 30                                                               | <.10                                                 | .030                                                 |
| FEB<br>13... | 20                                     | --                                                     | 4.9                                          | 1.9                                                  | --                                              | 67                                                                  | 370                                                        | 36                                                               | .30                                                  | .120                                                 |
| MAR<br>11... | 20                                     | 4                                                      | 5.0                                          | 1.9                                                  | 16                                              | 58                                                                  | 260                                                        | 37                                                               | .40                                                  | .190                                                 |

| DATE         | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>TOTAL<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P) | PHOS-<br>PHORUS,<br>ORTHO,<br>TOTAL<br>(MG/L<br>AS P) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | CARBON,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS C) | CHLOR-A<br>PHYTO-<br>PLANK-<br>TON<br>CHROMO<br>FLUOROM<br>(UG/L) | CHLOR-B<br>PHYTO-<br>PLANK-<br>TON<br>CHROMO<br>FLUOROM<br>(UG/L) |
|--------------|------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|-------------------------------------------------------|--------------------------------------------|------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|
| OCT<br>18... | 1.3                                                  | 1.4                                                                 | 1.5                                       | .140                                        | .100                                                  | 230                                        | 33                                                   | 7.5                                                    | 1.60                                                              | <.100                                                             |
| NOV<br>15... | .63                                                  | .80                                                                 | 1.0                                       | .140                                        | .100                                                  | 48                                         | 5                                                    | 4.7                                                    | 6.10                                                              | <.100                                                             |
| DEC<br>18... | .57                                                  | .60                                                                 | --                                        | .130                                        | .070                                                  | 34                                         | 10                                                   | 4.1                                                    | 4.60                                                              | <.100                                                             |
| FEB<br>13... | .48                                                  | .60                                                                 | .90                                       | .280                                        | .140                                                  | 300                                        | 77                                                   | 5.4                                                    | <.100                                                             | <.100                                                             |
| MAR<br>11... | 1.0                                                  | 1.2                                                                 | 1.6                                       | .220                                        | .160                                                  | 580                                        | 21                                                   | 5.2                                                    | 6.20                                                              | <.100                                                             |



## GROUND-WATER LEVELS

## ADAMS COUNTY

313330091223702. Local number, C002.

LOCATION.--Lat 31°33'30", long 91°22'37", Hydrologic Unit 08060204, Irregular sec.16, T.7 N., R.3 W., at city water treatment plant on Brenham Avenue.

Owner: City of Natchez.

AQUIFER.--Sand of Catahoula Sandstone of Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 16 in, depth 607 ft.

DATUM.--Land-surface datum is 237.73 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 2.00 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--August 1940, September 1955, June 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 188.23 ft below land-surface datum, Aug. 5, 1940; lowest measured, 272.72 ft below land-surface datum, Jan. 23, 1983.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5   | 261.00 | 257.00 | 252.77 | 248.08 | 257.80 | 247.11 | 243.41 | 241.89 | 252.80 | ---    | 260.89 | 252.05 |
| 10  | 262.09 | 258.54 | 253.61 | 246.91 | 252.44 | 247.62 | 250.00 | 241.09 | 253.14 | ---    | 259.30 | 251.33 |
| 15  | 254.86 | 257.82 | 246.84 | 247.35 | 245.72 | 250.12 | 246.52 | 248.93 | 253.52 | ---    | 257.43 | 248.53 |
| 20  | 252.13 | 254.64 | 248.04 | 249.60 | 244.05 | 249.26 | 248.56 | 251.62 | 253.37 | ---    | 253.90 | 250.67 |
| 25  | 259.33 | 247.45 | 252.15 | 252.94 | 241.76 | 247.84 | 248.53 | 251.81 | 251.88 | 256.33 | 251.86 | 251.35 |
| EOM | 254.55 | 246.57 | 250.90 | 251.02 | 242.35 | 248.16 | 251.01 | 244.11 | 251.89 | 256.76 | 252.33 | 249.31 |

WTR YR 1985 MEAN 251.26 HIGH 238.94 APR 8 LOW 262.09 OCT 10

313256091214201. Local number, C067 (formerly D10).

LOCATION.--Lat 31°32'56", long 91°21'42", Hydrologic Unit 08060204, NW¼NW¼ Lot 87, T.7 N., R.2 W., 2 mi east of center of Natchez on Liberty Road.

Owner: Johns Manville Co.

AQUIFER.--Sand of Catahoula Sandstone of Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in, depth 436 ft, cased to 392 ft.

DATUM.--Land-surface datum is 116.92 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--April 1961 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 58.62 ft below land-surface datum, Mar. 31, 1962; lowest measured, 80.18 ft below land-surface datum, July 25, 1963.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5   | 68.85 | 68.10 | 67.19 | 66.79 | 66.43 | 66.06 | 65.17 | 64.99 | 65.98 | 66.99 | 68.23 | 68.55 |
| 10  | 68.74 | 68.05 | 67.18 | 66.52 | 66.68 | 66.04 | 65.13 | 65.08 | 66.21 | 67.19 | 68.56 | 68.46 |
| 15  | 68.66 | 68.04 | 67.18 | 66.28 | 66.80 | 65.84 | 64.91 | 65.10 | 66.44 | 67.41 | 68.63 | 68.50 |
| 20  | 68.63 | 67.85 | 67.15 | 66.20 | 66.78 | 65.73 | 64.89 | 65.23 | 66.60 | 67.48 | ---   | 68.52 |
| 25  | 68.26 | 67.77 | 67.20 | 66.21 | 66.41 | 65.56 | 64.87 | 65.40 | 66.79 | 67.67 | 68.74 | 68.58 |
| EOM | 68.24 | 67.39 | 67.04 | 66.32 | 66.24 | 65.28 | 64.79 | 65.68 | 66.81 | 68.00 | 68.73 | 68.70 |

WTR YR 1985 MEAN 66.96 HIGH 64.75 APR 27 LOW 68.91 OCT 7

313605091202201 (formerly 313554091201201). Local number, D001.

LOCATION.--Lat 31°36'05", long 91°20'22", Hydrologic Unit 08060204, sec.12, T.7 N., R.2 W., 5 mi northeast of center of Natchez at power plant.

Owner: Mississippi Power and Light Co.

AQUIFER.--Sand of Catahoula Sandstone of Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in, depth 456 ft.

DATUM.--Land-surface datum is 192.4 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of concrete base, 1.50 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 80.30 ft below land-surface datum, Oct. 8, 1981; lowest measured, 102.97 ft below land-surface datum, Aug. 30, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY | OCT   | NOV   | DEC   | JAN   | FEB | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-----|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|-------|-------|
| 5   | 86.07 | ---   | 86.02 | 85.90 | --- | 85.66 | 85.80 | 85.53 | 85.80 | 85.75 | 85.72 | ---   |
| 10  | 86.47 | 85.85 | 85.76 | 85.62 | --- | 85.72 | 85.77 | 85.54 | 85.48 | 85.50 | 85.74 | 85.86 |
| 15  | ---   | 85.85 | 85.63 | 85.94 | --- | 85.65 | 85.89 | 85.49 | 85.46 | ---   | 85.72 | 85.69 |
| 20  | ---   | 85.99 | 86.01 | 86.31 | --- | 85.65 | 85.53 | 85.47 | 85.49 | ---   | 85.59 | 85.75 |
| 25  | ---   | 85.83 | 85.75 | 86.63 | --- | 85.46 | 85.94 | 85.47 | 86.16 | ---   | 85.55 | 85.48 |
| EOM | ---   | 85.54 | 85.68 | 86.14 | --- | 85.38 | 86.02 | 85.57 | 85.75 | ---   | 85.44 | 85.52 |

WTR YR 1985 MEAN 85.79 HIGH 85.26 SEP 3 LOW 88.88 JAN 21 AND OTHERS

## GROUND-WATER LEVELS

239

## ADAMS COUNTY--Continued

312730091200602. Local number, G007.

LOCATION.--Lat 31°27'30", long 91°20'06", Hydrologic Unit 08060205, NE¼NW¼ Lot 41, T.6 N., R.2 W., 8 mi southeast of center of Natchez on Kingston Road.

Owner: Adams County Water Association.

AQUIFER.--Sand of Catahoula Sandstone of Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in, depth 267 ft, cased to 217 ft.

DATUM.--Land-surface datum is about 220 ft National Geodetic Vertical Datum of 1929. Measuring point: Air vent in pump base, 3.00 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 41.03 ft below land-surface datum, Mar. 30, 1979; lowest measured, 64.15 ft below land-surface datum, Nov. 7, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE WATER  
LEVEL

APR 10 63.45

312752091202201. Local number, G021.

LOCATION.--Lat 31°27'52", long 91°20'22", Hydrologic Unit 08060205, NE¼NW¼ Lot 41, T.6 N., R.2 W., 8 mi southeast of center of Natchez on Kingston Road.

Owner: Adams County Water Association.

AQUIFER.--Sand of Catahoula Sandstone of Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 880 ft, cased to 8.40 ft.

DATUM.--Land-surface datum is about 223 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--November 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 162.00 ft below land-surface datum, June 5, 1975; lowest measured, 171.97 ft below land-surface datum, Apr. 9, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE WATER  
LEVEL

APR 10 166.28

## ALCORN COUNTY

345545088311002. Local number, G003.

LOCATION.--Lat 34°55'45", long 88°31'10", Hydrologic Unit 08010207, NW¼NW¼ sec.12, T.2 S., R.7 E., 0.5 mi south of center of Corinth.

Owner: City of Corinth.

AQUIFER.--Coffee Sand of Selma Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in, depth 245 ft.

DATUM.--Land-surface datum is about 432 ft National Geodetic Vertical Datum of 1929. Measuring point: Air vent on railroad side of pump base, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--September 1961, September 1963, October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.60 ft below land-surface datum, Sept. 27, 1961; lowest measured, 12.00 ft below land-surface datum, Oct. 8, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE WATER  
LEVEL

MAR 28 10.13

345456088313001. Local number, G057.

LOCATION.--Lat 34°54'56", long 88°31'30", Hydrologic Unit 08010207, NW¼NW¼ sec.13, T.2 S., R.7 E., 1 mi south of center of Corinth.

Owner: City of Corinth.

AQUIFER.--Rocks of Paleozoic age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in, depth 453 ft, cased to 410 ft.

DATUM.--Land-surface datum is 463 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.00 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--August 1962 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 100.9 ft below land-surface datum, Oct. 17, 1962; lowest measured, 224.4 ft below land-surface datum, Sept. 22, 1974.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY         | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5           | 197.01 | 195.79 | 195.01 | 193.90 | 196.94 | 197.78 | 196.47 | 195.85 | 191.46 | 191.39 | 192.42 | 192.60 |
| 10          | 197.23 | 195.86 | 194.60 | 194.32 | 197.42 | 197.75 | 196.44 | 193.88 | 191.91 | 191.23 | 192.65 | 192.52 |
| 15          | 196.82 | 195.63 | 194.38 | 194.55 | 197.55 | 197.67 | 196.22 | 187.36 | 191.82 | 191.93 | 193.04 | 192.74 |
| 20          | 196.62 | 195.37 | 194.19 | 194.99 | 197.42 | 197.64 | 196.41 | 190.08 | 191.86 | 191.97 | 193.06 | 192.62 |
| 25          | 195.80 | 195.08 | 194.32 | 196.15 | 197.65 | 195.83 | 196.44 | 190.89 | 191.81 | 192.43 | 192.94 | 192.59 |
| EOM         | 196.03 | 194.81 | 193.81 | 196.52 | 197.79 | 196.22 | 196.54 | 190.85 | 191.49 | 192.27 | 192.71 | 192.43 |
| WTR YR 1985 | MEAN   | 194.43 | HIGH   | 187.36 | MAY 15 | LOW    | 198.02 | OCT 1  |        |        |        |        |

## GROUND-WATER LEVELS

## ALCORN COUNTY--Continued

345604088321902. Local number, G101.

LOCATION.--Lat 34°56'04", long 88°32'19", Hydrologic Unit 08010207, SW¼SW¼ sec.2, T.2 S., R.7 E., 2 mi west of center of Corinth, 0.2 mi north of Ramada Inn.

Owner: City of Corinth.

AQUIFER.--Rocks of Paleozoic age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in, depth 520 ft, cased to 460 ft.

DATUM.--Land-surface datum is about 480 ft National Geodetic Vertical Datum of 1929. Measuring point: Hole in well head, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--February 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 153.00 ft below land-surface datum, Mar. 14, 1974; lowest measured, 199.00 ft below land-surface datum, Feb. 11, 1972.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE | WATER<br>LEVEL |
|------|----------------|
|------|----------------|

|        |        |
|--------|--------|
| MAR 28 | 161.50 |
|--------|--------|

344642088340501. Local number, K011.

LOCATION.--Lat 34°46'42", long 88°34'05", Hydrologic Unit 08010207, NW¼NE¼ sec.33, T.3 S., R.7 E., 3 mi northwest of center of Rienzi, 0.5 mi west of U.S. Highway 45.

Owner: C. B. Curlee.

AQUIFER.--Rocks of Paleozoic age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth reported 574 ft, cased to 478 ft.

DATUM.--Land-surface datum is about 460 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 1.50 ft above land-surface datum.

PERIOD OF RECORD.--September 1961 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 89.00 ft below land-surface datum, Dec. 17, 1961; lowest measured, 125.62 ft below land-surface datum, Aug. 24, 1984.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|------|----------------|------|----------------|------|----------------|
|------|----------------|------|----------------|------|----------------|

|        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|
| NOV 30 | 125.40 | MAR 28 | 124.40 | AUG 24 | 125.62 |
|--------|--------|--------|--------|--------|--------|

344642088333001. Local number, K053.

LOCATION.--Lat 34°46'42", long 88°33'30", Hydrologic Unit 08010207, SW¼NW¼ sec.34, T.3 S., R.7 W., 2.5 mi northwest of center of Rienzi on U.S. Highway 45 at roadside park.

Owner: Mississippi State Highway Department.

AQUIFER.--Coffee Sand of Selma Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 210 ft, cased to 190 ft.

DATUM.--Land-surface datum is about 450 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--July 1973, October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.37 ft below land-surface datum, July 19, 1973; lowest measured, 45.10 ft below land-surface datum, Dec. 1, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE | WATER<br>LEVEL |
|------|----------------|
|------|----------------|

|        |       |
|--------|-------|
| MAR 28 | 44.29 |
|--------|-------|

## ATTALA COUNTY

330713089365302. Local number, G013.

LOCATION.--Lat 33°07'13", long 89°36'53", Hydrologic Unit 08060201, NW¼NE¼ sec.31, T.15 N., R.7 E., 4.5 mi northwest of center of Kosciusko on State Highway 35.

Owner: Fred Turnipseed.

AQUIFER.--Winona Sand of middle Eocene age.

WELL CHARACTERISTICS.--Dug unused artesian well, diameter 30 in, depth 22 ft.

DATUM.--Land-surface datum is about 361 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of hole in concrete cap, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--January 1963, October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.23 ft below land-surface datum, Apr. 13, 1983; lowest measured, 15.22 ft below land-surface datum, Jan. 11, 1963.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE | WATER<br>LEVEL |
|------|----------------|
|------|----------------|

|       |       |
|-------|-------|
| APR 8 | 11.17 |
|-------|-------|

## ATTALA COUNTY--Continued

330110089455001. Local number, K022.

LOCATION.--Lat 33°01'10", long 89°45'50", Hydrologic Unit 08060201, SW¼SW¼ sec.35, T.14 N., R.5 E., at center of Sallis.

Owner: Town of Sallis.

AQUIFER.--Sand of Tallahatta Formation of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 2 in, depth reported 356 ft, cased to about 300 ft.

DATUM.--Land-surface datum is about 280 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 3/4-in pipe (since May 22, 1957), 1.30 ft above land-surface datum.

PERIOD OF RECORD.--1913, June 1957 to April 1963, May 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 30 ft above land-surface datum, 1913; lowest measured, 1.00 ft above land-surface datum, Dec. 20, 1979.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL |
|-------|----------------|
| APR 8 | 1.10           |

330328089365901. Local number, M008.

LOCATION.--Lat 33°03'28", long 89°36'59", Hydrologic Unit 03180001, NE¼ sec.20, T.14 N., R.7 E., 0.2 mi northwest of center of Kosciusko on Adams Street.

Owner: Barnett Moving Company.

AQUIFER.--Meridian Sand Member of Tallahatta Formation of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 16 in, depth 456 ft.

DATUM.--Land-surface datum is about 423 ft National Geodetic Vertical Datum of 1929. Measuring point: Air vent in pump base, 1.70 ft above land-surface datum.

PERIOD OF RECORD.--March 1962, October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 107.10 ft below land-surface datum, Mar. 13, 1962; lowest measured, 124.08 ft below land-surface datum, Apr. 28, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL |
|-------|----------------|
| APR 8 | 121.05         |

330330089354401. Local number, M029.

LOCATION.--Lat 33°03'30", long 89°35'44", Hydrologic Unit 03180001, SW¼NW¼ sec.21, T.14 N., R.7 E., 0.1 mi west of center of Kosciusko on Jefferson Street.

Owner: City of Kosciusko.

AQUIFER.--Meridian Sand Member of Tallahatta Formation of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in, depth 387 ft, cased to 367 ft.

DATUM.--Land-surface datum is about 472 ft National Geodetic Vertical Datum of 1929. Measuring point: Air vent in pump base, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--March 1962, October 1975 to April 1984 (Discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 148.70 ft below land-surface datum, Mar. 13, 1962; lowest measured, 165.73 ft below land-surface datum, Apr. 28, 1978.

330241089270501. Local number, N013.

LOCATION.--Lat 33°02'41", long 89°27'05", Hydrologic Unit 03180001, SE¼NW¼ sec.26, T.14 N., R.8 E., 8 mi east of center of Kosciusko on north side of State Highway 14.

Owner: Houston Veasey.

AQUIFER.--Meshoba Sand Member of Tallahatta Formation of middle Eocene age.

WELL CHARACTERISTICS.--Dug unused artesian well, diameter 30 in, depth 30 ft.

DATUM.--Land-surface datum is about 510 ft National Geodetic Vertical Datum of 1929. Measuring point: Inside lip of curb, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--March 1958 to March 1959, June 1962, October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.86 ft below land-surface datum, Mar. 12, 1959; lowest measured, 23.50 ft below land-surface datum, Dec. 11, 1979.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL |
|-------|----------------|
| APR 8 | 22.08          |



## GROUND-WATER LEVELS

## ATTALA COUNTY--Continued

325844089462701. Local number, Q014.

LOCATION.--Lat 32°58'44", long 89°46'27", Hydrologic Unit 08060201, NE¼SW¼ sec.15, T.13 N., R.5 E., 3.1 mi south of center of Sallis on west side of State Highway 429.

Owner: Tom Aldy.

AQUIFER.--Sand of Tallahatta Formation of middle Eocene age.

WELL CHARACTERISTICS.--Drilled domestic artesian well, diameter 2 in, depth 409 ft.

DATUM.--Land-surface datum is about 290 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 2-in casing, 1.80 ft above land-surface datum.

PERIOD OF RECORD.--June 1957 to July 1959, June 1962, October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.37 ft below land-surface datum, Mar. 13, 1958; lowest measured, 4.96 ft below land-surface datum, Apr. 11, 1983.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL |
|-------|----------------|
| APR 8 | 4.41           |

325902089333901. Local number, S021.

LOCATION.--Lat 32°59'02", long 89°33'39", Hydrologic Unit 03180001, SE¼NE¼ sec.15, T.13 N., R.7 E., 5 mi south of center of Kosciusko on east side of State Highway 35.

Owner: United Gas Co.

AQUIFER.--Meridian Sand Member of Tallahatta Formation of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in, depth 360 ft, cased to 340 ft.

DATUM.--Land-surface datum is about 488 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 8-in casing, 0.50 ft above land-surface datum.

PERIOD OF RECORD.--October 1961, October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 157 ft below land-surface datum, October 1961; lowest measured, 169.58 ft below land-surface datum, Apr. 8, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL |
|-------|----------------|
| APR 8 | 169.58         |

## BOLIVAR COUNTY

335630090461501. Local number, D031.

LOCATION.--Lat 33°56'30", long 90°46'15", Hydrologic Unit 08030207, SW¼NE¼ sec.12, T.24 N., R.6 W., 0.1 mi west of center of Shelby at old waterworks.

Owner: Town of Shelby.

AQUIFER.--Meridian Sand Member of Tallahatta Formation of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in, depth 1,575 ft.

DATUM.--Land-surface datum is about 147 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of air vent hole in pump base, 1.30 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.40 ft above land-surface datum, May 11, 1977; lowest measured, 28.55 ft below land-surface datum, Mar. 26, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 to SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| MAR 26 | 28.55          |

335558090465202. Local number, D032.

LOCATION.--Lat 33°55'58", long 90°46'52", Hydrologic Unit 08030207, SE¼NE¼ sec.14, T.24 N., R.6 W., 1.5 mi south-west of center of Shelby on State Highway 32 at park.

Owner: Town of Shelby.

AQUIFER.--Sand of Cockfield Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth reported 409 ft.

DATUM.--Land-surface datum is about 150 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in casing plug, 0.30 ft above land-surface datum.

PERIOD OF RECORD.--September 1949, October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.72 ft below land-surface datum, Oct. 15, 1983; lowest measured, 49.70 ft below land-surface datum, Apr. 13, 1982.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| OCT 15 | 35.86          | MAR 26 | 32.20          |



## BOLIVAR COUNTY--Continued

334957090564301. Local number, F020.

LOCATION.--Lat 33°49'57", long 90°56'43", Hydrologic Unit 08030207, NE¼NW¼ sec.20, T.23 N., R.7 W., 5 mi southeast of center of Rosedale on south side of State Highway 8.

Owner: R. C. Malone.

AQUIFER.--Mississippi River Valley alluvium of Pleistocene and Holocene age.

WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 16 in, depth 120 ft, screened 80-120 ft, cased to 80 ft.

DATUM.--Land-surface datum is about 145 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.15 ft above land-surface datum.

REMARKS.--Water levels affected by seasonal irrigation pumping.

PERIOD OF RECORD.--November 1953 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.99 ft below land-surface datum, Apr. 7, 1959; lowest measured, 57.32 ft below land-surface datum, Sept. 7, 1955.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE  | WATER<br>LEVEL |
|--------|----------------|-------|----------------|
| MAR 26 | 25.27          | OCT 2 | 27.84          |

334700090584501. Local number, J008.

LOCATION.--Lat 33°47'00", long 90°58'45", Hydrologic Unit 08030207, SW¼NE¼ sec.27, T.22 N., R.8 W., near center of Beulah.

Owner: Town of Beulah.

AQUIFER.--Sparta Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled public-supply artesian well diameter 8 in, depth 754 ft.

DATUM.--Land-surface datum is about 145 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of air vent in pump base, 2.50 ft above land-surface datum.

PERIOD OF RECORD.--October 1968, March 1971, April 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27 ft below land-surface datum, Oct. 1, 1968; lowest measured, 38.50 ft below land-surface datum, Sept. 26, 1984.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| MAR 26 | 33.39          |

334106090590902. Local number, N002.

LOCATION.--Lat 33°41'06", long 90°59'09", Hydrologic Unit 08030207, SE¼NW¼ sec.34, T.21 N., R.8 W., 2.5 mi northeast of center of Benoit on east side of State Highway 1.

Owner: Welshans and Litton.

AQUIFER.--Mississippi River Valley alluvium of Pleistocene and Holocene age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 14 in, depth 96 ft.

DATUM.--Land-surface datum is about 135 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.70 ft above land-surface datum.

REMARKS.--Water levels affected by seasonal irrigation pumping.

PERIOD OF RECORD.--November 1953 to October 1963, January 1965 to October 1966, April 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.53 ft below land-surface datum, May 13, 1958; lowest measured, 27.22 ft below land-surface datum, Sept. 16, 1981.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| MAR 26 | 18.75          |

333959090435001. Local number, Q150.

LOCATION.--Lat 33°39'59", long 90°43'50", Hydrologic Unit 08030207, NE¼SE¼ sec.17, T.21 N., R.5 W., at O'Reilly at gin.

Owner: Jones Bayou Gin Association.

AQUIFER.--Meridian Sand Member of Tallahatta Formation of middle Eocene age.

WELL CHARACTERISTICS.--Drilled domestic artesian well, diameter 3-2 in, depth 1,310 ft, cased to 1,310 ft.

DATUM.--Land-surface datum is 133.66 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 3/4-in pipe, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--May 1939 to October 1968, April 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.10 ft above land-surface datum, May 30, 1939; lowest measured, 16.90 ft below land-surface datum, Mar. 26, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| MAR 26 | 16.90          |

## GROUND-WATER LEVELS

## BOLIVAR COUNTY--Continued

333530090582401. Local number, R064.

LOCATION.--Lat 33°35'30", long 90°58'24", Hydrologic Unit 08030209, SE¼SE¼ sec.12, T.20 N., R.8 W., at Stringtown.

Owner: H and H Planting Co.

AQUIFER.--Cockfield Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in, depth 520 ft.

DATUM.--Land-surface datum is 133 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of air vent in pump base, 1.8 ft above land-surface datum.

PERIOD OF RECORD.--May 1939, November 1960, October 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.8 ft below land-surface datum, May 5, 1939; lowest measured, 40.27 ft below land-surface datum, Oct. 15, 1983.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| MAR 26 | 37.50          |

## CALHOUN COUNTY

335118089175901. Local number, K101.

LOCATION.--Lat 33°51'18", long 89°17'59", Hydrologic Unit 08030205, NE¼SW¼ sec.13, T.23 N., R.9 E., 0.3 mi northeast of center of Calhoun City at Adams Street and Taylor Street.

Owner: Town of Calhoun City.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 12 in, depth 1,897 ft, cased to 1,857 ft.

DATUM.--Land-surface datum is about 270 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of air vent in north side of pump base, 1.30 ft above land-surface datum.

REMARKS.--Water levels affected by pumping.

PERIOD OF RECORD.--February 1955 to April 1967, June 1969, June 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 42.75 ft below land-surface datum, Mar. 14, 1957; lowest measured, 87.39 ft below land-surface datum, Apr. 23, 1984.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| NOV 30 | 90.05          | APR 22 | 90.14          |

## CARROLL COUNTY

333116089550401. Local number, F001.

LOCATION.--Lat 33°31'16", Long 89°55'04", Hydrologic Unit 08030205, SE¼SW¼ sec.7, T.19 N., R.4 E., near center of North Carrollton at old water plant.

Owner: Town of North Carrollton.

AQUIFER.--Sand of lower part of Wilcox Group of late Paleocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 1,274 ft.

DATUM.--Land-surface datum is about 230 ft National Geodetic Vertical Datum of 1929. Measuring point: Faucet below pump base, 0.50 ft above land-surface datum.

PERIOD OF RECORD.--March 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.00 ft above land-surface datum, Mar. 21, 1979; lowest measured, 5.56 ft above land-surface datum, Apr. 11, 1983.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL |
|-------|----------------|
| APR 8 | 15.2           |

333057089552002. Local number, F019.

LOCATION.--Lat 33°30'57", long 89°55'20", Hydrologic Unit 08030205, SE¼SW¼ sec.7, T.19 N., R.4 E., near center of North Carrollton at old water plant.

Owner: Town of North Carrollton.

AQUIFER.--Meridian Sand Member of Tallahatta Formation of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in, depth 440 ft.

DATUM.--Land-surface datum is about 225 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of air vent in side of pump base, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--May 1961, May 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.00 ft below land-surface datum, May 1, 1961; lowest measured, 13.04 ft below land-surface datum, Oct. 10, 1979.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL |
|-------|----------------|
| APR 8 | 10.27          |

## GROUND-WATER LEVELS

245

## CHICKASAW COUNTY

340030088444801. Local number D006.

LOCATION.--Lat 34°00'30", long 88°44'48", Hydrologic Unit 03160101, NW¼SE¼ sec.26, T.12 S., R.5 E., at Okolona at old water plant.

Owner: Town of Okolona.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well 10 in, depth reported 400 ft.

DATUM.--Land-surface datum is about 307 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of concrete well base, 2.50 ft above land-surface datum.

PERIOD OF RECORD.--1917, October 1956, December 1958, October 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 87 ft below land-surface datum, 1917; lowest measured, 161.0 ft below land-surface datum, Nov. 30, 1982.

WATER LEVEL, IN FEET, BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| APR 24 | 150.36         | OCT 11 | 157.65         |

335400088595001. Local number, F016.

LOCATION.--Lat 33°54'00", long 88°59'50", Hydrologic Unit 03160104, SW¼SW¼ sec.33, T.13 S., R.3 E., near center of Houston at old water plant.

Owner: Town of Houston.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in, depth 1,076 ft.

DATUM.--Land-surface datum is about 340 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of air vent in pump base, 1.20 ft above land-surface datum.

PERIOD OF RECORD.--1931, July 1940, November 1970, 1971, October 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 80 ft below land-surface datum, 1940; lowest measured 181.55 ft below land-surface datum, May 15, 1984.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE  | WATER<br>LEVEL |
|--------|----------------|-------|----------------|
| APR 22 | 172.54         | OCT 8 | 161.77         |

335400088594601. Local number, F018.

LOCATION.--Lat 33°54'00", long 88°59'46", Hydrologic Unit 03160104, SW¼SW¼ sec.33, T.13 S., R.3 E., near center of Houston at old water plant.

Owner: Town of Houston.

AQUIFER.--Sand of Ripley Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 130 ft.

DATUM.--Land-surface datum is about 340 ft National Geodetic Vertical Datum of 1929. Measuring point: plug in pump base, 1.50 ft above land-surface datum.

PERIOD OF RECORD.--1970, May 1972, October 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 58.99 ft below land-surface datum, Apr. 22, 1985; lowest measured, 64 ft below land-surface datum May 24, 1972.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE  | WATER<br>LEVEL |
|--------|----------------|-------|----------------|
| APR 22 | 58.99          | OCT 8 | 60.60          |

335136089005301. Local number, K037.

LOCATION.--Lat 33°51'36", long 89°00'53", Hydrologic Unit 03180001, SW¼SW¼ sec.17, T.14 S., R.3 E., 2.5 mi south of center of Houston on west side of State Highway 15.

Owner: J. D. McAlpin.

AQUIFER.--Sand of Ripley Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth reported 130 ft, cased to 80 ft.

DATUM.--Land-surface datum is about 320 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--October 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 59.40 ft below land-surface datum, Mar. 20, 1962; lowest measured, 67.10 ft below land-surface datum, Oct. 28, 1971.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| NOV 30 | 63.47          | APR 22 | 62.60          |

## GROUND-WATER LEVELS

## CHOCTAW COUNTY

331849089105101. Local number, H001.

LOCATION.--Lat 33°18'49", long 89°10'51", Hydrologic Unit 03180001, NE¼ sec.30, T.17 N., R.11 E., 0.2 mi west of center of Ackerman.

Owner: Town of Ackerman.

AQUIFER.--Sand of Wilcox Formation of early Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in, depth 100 ft, cased to 76 ft.

DATUM.--Land-surface datum is about 518 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 1.50 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--January 1957, October 1969, February 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13 ft below land-surface datum, 1957; lowest measured, 28.72 ft below land-surface datum, Dec. 23, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5   | 24.64 | 24.09 | 24.89 | ---   | 26.23 | 27.93 | 26.19 | 24.74 | 26.29 | 24.12 | 26.11 | 25.88 |
| 10  | 22.95 | 25.08 | 24.95 | ---   | 27.24 | 27.38 | 26.09 | 23.81 | 24.97 | 25.37 | 26.39 | 25.58 |
| 15  | 24.23 | 24.44 | ---   | ---   | 25.79 | 26.93 | 25.57 | 24.03 | 24.78 | 25.27 | 26.74 | 26.62 |
| 20  | 24.63 | 25.12 | ---   | ---   | 26.22 | 26.65 | 26.07 | 23.87 | 24.30 | 26.11 | 25.56 | 25.75 |
| 25  | 24.45 | 24.93 | ---   | ---   | 25.20 | 25.44 | 24.09 | 23.31 | 24.50 | 25.08 | 26.85 | 25.53 |
| EOM | 24.53 | 24.36 | ---   | 26.23 | 26.23 | 26.46 | 23.24 | 25.18 | 25.65 | 25.67 | 24.75 | 24.61 |

WTR YR 1985 MEAN 25.26 HIGH 21.94 FEB 17 LOW 28.06 FEB 14

331543089171801. Local number, J035.

LOCATION.--Lat 33°15'43", long 89°17'18", Hydrologic Unit 03180001, NW¼ sec.8, T.16 N., R.10 E., 0.3 mi south of center of Weir near Baptist Church.

Owner: Inez Power.

AQUIFER.--Sand of upper part of Wilcox Group of early Eocene age.

WELL CHARACTERISTICS.--Dug unused artesian well, diameter 30 in, depth 28 ft.

DATUM.--Land-surface datum is about 485 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 30-in concrete curb, 2.00 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.86 ft below land-surface datum, May 7, 1980; lowest measured, 22.97 ft below land-surface datum, Dec. 18, 1981.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|-------|----------------|--------|----------------|--------|----------------|-------|----------------|--------|----------------|
| JAN 28 | 19.77          | MAR 5 | 18.35          | APR 22 | 18.20          | MAY 31 | 18.50          | JUL 8 | 19.47          | AUG 28 | 20.58          |

## CLAIBORNE COUNTY

315718090591501. Local number, L005.

LOCATION.--Lat 31°57'18", long 90°59'15", Hydrologic Unit 08060203, Irregular Lot 4, T.11 N., R.2 E., 0.2 mi south of center of Port Gibson at Oak Street and Main Street.

Owner: Town of Port Gibson.

AQUIFER.--Sand of Catahoula Sandstone of Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in, depth reported 250 ft.

DATUM.--Land-surface datum is about 120 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of concrete base, 2.00 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--April 1961 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 76.87 ft below land-surface datum, Apr. 22, 1963; lowest measured, 125.52 ft below land-surface datum, June 6, 1978.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| OCT 17 | 116.10         | APR 10 | 118.00         |

## CLAY COUNTY

333620088392503. Local number, H004.

LOCATION.--Lat 33°36'20", long 88°39'25", Hydrologic Unit 03160104, NW¼ sec.15, T.17 S., R.6 E., 0.2 mi southwest of center of West Point.

Owner: City of West Point.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 20 in, depth 386 ft.

DATUM.--Land-surface datum is about 215 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of air vent in pump base, 3.00 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--December 1953, February 1981 to June 1984 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 99 ft below land-surface datum, December 1953; lowest measured, 199.13 ft below land-surface datum, Jan. 4, 1983.



## GROUND-WATER LEVELS

247

## CLAY COUNTY--Continued

333712088384601. Local number, H046.

LOCATION.--Lat 33°37'12", long 88°38'46", Hydrologic Unit 03160104, NE¼NW¼ sec.11, T.17 S., R.6 E., 1 mi northeast of center of West Point on east side of Illinois Central Railroad.

Owner: City of West Point.

AQUIFER.--Sand and gravel of Gordo Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in, depth 810 ft, cased to 750 ft.

DATUM.--Land-surface datum is about 240 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 2.10 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--July 1963, May 1969, January 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.95 ft below land-surface datum, July 16, 1963; lowest measured, 86.69 ft below land-surface datum, Dec. 2, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5   | 76.08 | 75.75 | 75.53 | 75.31 | 75.79 | 75.72 | 76.13 | 75.90 | 76.80 | 76.75 | 78.45 | 79.09 |
| 10  | 75.79 | 75.45 | 75.38 | 75.34 | 75.61 | 75.68 | 76.17 | 76.37 | 76.86 | 78.10 | 78.77 | 78.83 |
| 15  | 75.84 | 75.74 | 75.59 | 75.72 | 75.83 | 76.10 | 75.94 | 76.52 | 77.19 | 78.23 | 79.03 | 78.64 |
| 20  | 75.87 | 75.83 | 75.57 | 75.31 | 75.70 | 75.71 | 76.15 | 75.97 | 77.67 | 78.07 | 78.94 | 79.50 |
| 25  | 75.81 | 74.98 | 71.96 | 75.75 | 75.48 | 75.96 | 75.85 | 76.13 | 77.56 | 78.28 | ---   | 79.18 |
| EOM | 75.92 | 75.61 | 74.77 | 75.47 | 75.56 | 75.65 | 76.20 | 76.64 | 77.15 | 78.64 | 79.01 | 78.83 |

WTR YR 1985 MEAN 76.48 HIGH 71.96 DEC 25 LOW 79.53 SEP 13

333509088402801. Local number, H099.

LOCATION.--Lat.33°35'09", long 88°40'28", Hydrologic Unit 03160104, NE¼NW¼ sec.21, T.17 S., R.6 E., 1 mi southwest of city of West Point.

Owner: City of West Point.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in, depth 400 ft.

DATUM.--Land surface datum is about 200 ft National Geodetic Vertical Datum of 1929. Measuring point:

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--November 1971, August 1976, April 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 133.14 ft below land-surface datum Nov. 4, 1971; lowest measured, 182.42 ft below land-surface datum, Aug. 26, 1976.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR    | MAY    | JUN    | JUL | AUG    | SEP    |
|-----|-----|-----|-----|-----|-----|-----|--------|--------|--------|-----|--------|--------|
| 5   |     |     |     |     |     |     | ---    | 153.82 | 157.29 |     | ---    | 153.84 |
| 10  |     |     |     |     |     |     | ---    | 154.18 | 154.52 |     | ---    | 153.44 |
| 15  |     |     |     |     |     |     | ---    | 153.69 | 155.35 |     | ---    | 153.89 |
| 20  |     |     |     |     |     |     | ---    | 154.23 | ---    |     | ---    | 154.92 |
| 25  |     |     |     |     |     |     | 154.22 | 155.81 | ---    |     | ---    | 154.73 |
| EOM |     |     |     |     |     |     | 152.68 | 156.11 | ---    |     | 153.15 | 153.55 |

WTR YR 1985 MEAN 154.43 HIGH 152.19 MAY 13 LOW 157.65 JUN 7.

333530088393501. Local number, H151.

LOCATION.--Lat 33°35'30", long 88°39'35", Hydrologic Unit 03160104, NE¼NW¼ sec.22, T.17 S., R.6 E., 4.5 mi north of West Point on west side of U.S. Highway 45.

Owner: Prairie Livestock.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 400 ft.

DATUM.--Land-surface datum is about 205 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of air vent, at land-surface datum.

PERIOD OF RECORD.--September 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 160.82 ft below land-surface datum, Apr. 5, 1978; lowest measured, 190.20 ft below land-surface datum, Oct. 5, 1978.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

WATER  
LEVEL  
DATE 169.51



## GROUND-WATER LEVELS

## COAHOMA COUNTY

342400090322001. Local number, C111.

LOCATION.--Lat 34°24'00", long 90°32'20", Hydrologic Unit 08030204, NW¼SW¼ sec.7, T.29 N., R.2 W., 1 mi south of center of Rich at Rose Acres Plantation headquarters.

Owner: Norfleet and Wilsford.

AQUIFER.--Sand of lower part of Wilcox Group of late Paleocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 3-2 in, depth 1,837 ft, screened 1,796-1,837 ft.

DATUM.--Land-surface datum is 180.88 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 3-in tee, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--March 1940 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 40.8 ft above land-surface datum, July 26, 1940; lowest measured, 8.58 ft below land-surface datum, Oct. 18, 1983.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| OCT 11 | 10.63          | JUN 18 | 9.88           |

341720090304301. Local number, F012.

LOCATION.--Lat 34°17'19", long 90°30'43", Hydrologic Unit 08030207, NE¼NW¼ sec.21, T.28 N., R.3 W., 8 mi northeast of center of Clarksdale at airport on U.S. Highway 61.

Owner: City of Clarksdale.

AQUIFER.--Sand of Tallahatta Formation of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in, depth reported 900 ft.

DATUM.--Land-surface datum is about 168 ft National Geodetic Vertical Datum of 1929. Measuring point: Hole in east side of casing, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--April 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.82 ft below land-surface datum, Apr. 14, 1971; lowest measured, 13.83 ft below land-surface datum, Mar. 26, 1983.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| MAR 26 | 13.83          |

341311090371801. Local number, J005.

LOCATION.--Lat 34°13'11", long 90°37'18", Hydrologic Unit 08030207, SW¼NE¼SW¼ sec.9, T.27 N., R.4 W., 3.2 mi northwest of Clarksdale.

Owner: E.L. Anderson.

AQUIFER.--Mississippi River Valley alluvium of Pleistocene and Holocene age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 16 in, depth 118 ft.

DATUM.--Land-surface datum is about 172 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 3.40 ft above land-surface datum.

PERIOD OF RECORD.--April 1955, September 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23 ft below land-surface datum, April 1955; lowest measured, 28.45 ft below land-surface datum, July 27, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB    | MAR   | APR   | MAY    | JUN   | JUL   | AUG | SEP |
|-------------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|-----|-----|
| 5           | 27.22 | 26.87 | 26.66 | 26.46 | 26.26  | 26.22 | 26.00 | 25.80  | 26.10 | 26.92 |     |     |
| 10          | 27.05 | 26.86 | 26.56 | 26.46 | 26.16  | 26.08 | 25.92 | 25.78  | 26.22 | 27.02 |     |     |
| 15          | 27.07 | 26.80 | 26.58 | 26.40 | 26.26  | 26.08 | 25.86 | 25.86  | 26.28 | 27.14 |     |     |
| 20          | 27.04 | 26.90 | 26.50 | 26.54 | 26.18  | 26.02 | 25.95 | 25.92  | 26.66 | 27.26 |     |     |
| 25          | 26.94 | 26.64 | 26.56 | 26.40 | 26.18  | 26.07 | 25.80 | 25.90  | 26.77 | 27.38 |     |     |
| EOM         | 26.91 | 26.65 | 26.42 | 26.28 | 26.20  | 26.08 | 25.84 | 25.98  | 26.85 | ---   |     |     |
| WTR YR 1985 | MEAN  | 26.44 | HIGH  | 25.76 | APR 24 | LOW   | 27.46 | JUL 29 |       |       |     |     |

341230090323101. Local number, K022.

LOCATION.--Lat 34°12'30", long 90°32'31", Hydrologic Unit 08030207, SW¼NE¼ sec.18, T.27 N., R.3 W., near center of Lyon.

Owner: Town of Lyon.

AQUIFER.--Meridian Sand Member of Tallahatta Formation of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 1,242 ft.

DATUM.--Land-surface datum is about 170 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.50 ft above land-surface datum.

REMARKS.--Water level affected by nearby pumping.

PERIOD OF RECORD.--October 1961, August 1973, July 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 30 ft above land-surface datum, Oct. 30, 1961; lowest measured, 26.58 ft below land-surface datum, Mar. 26, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| MAR 26 | 26.58          |

## GROUND-WATER LEVELS

249

## COPIAH COUNTY

315130090233901. Local number, P008.

LOCATION.--Lat 31°51'30", long 90°23'39", Hydrologic Unit 031800003, SW¼ sec.10, T.10 N., R.8 E., at water plant near center of Hazlehurst.

Owner: Town of Hazlehurst.

AQUIFER.--Sand of Catahoula Sandstone of Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in, depth 300 ft, cased to 260 ft.

DATUM.--Land-surface datum is about 442.7 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 10-in casing at land-surface datum.

PERIOD OF RECORD.--1954, 1957, August 1971, April 1977 to April 1985 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 167.99 ft below land-surface datum, Mar. 23, 1983; lowest measured, 196 ft below land-surface datum, 1954.

315128090205202. Local number, P049.

LOCATION.--Lat 31°51'28", long 90°20'52", Hydrologic Unit 031800003, NE¼NE¼ sec.12, T.10 N., R.8 E., 3 mi east of center of Hazlehurst at Shady Grove Community.

Owner: Town of Hazlehurst.

AQUIFER.--Sand of Catahoula Sandstone of Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 295 ft, cased to 225 ft.

DATUM.--Land-surface datum is about 435 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 1.60 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--1967, August 1971, April 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 110 ft below land-surface datum, 1967; lowest measured, 143.60 ft below land-surface datum, Apr. 1, 1979.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE | WATER<br>LEVEL |
|------|----------------|
|------|----------------|

|       |        |
|-------|--------|
| APR 2 | 133.05 |
|-------|--------|

## COVINGTON COUNTY

314447089302201.--Local number, C028.

LOCATION.--Lat 31°44'47", long 89°30'22", Hydrologic Unit 031700004, NW¼SW¼ sec.15, T.9 N., R.15 W., 10 mi southeast of Mt. Olive on State Highway 532.

Owner: Mississippi Forestry Commission.

AQUIFER.--Sand of Citronelle Formation of Pliocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 3 in, depth 250 ft.

DATUM.--Land-surface datum is about 400 ft National Vertical Datum of 1929. Measuring point: Top of concrete slab, 0.50 ft above land-surface datum.

PERIOD OF RECORD.--August 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 119.83 ft below land-surface datum, Mar. 31, 1981; lowest measured, 123.95 ft below land-surface datum, Apr. 13, 1983.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE | WATER<br>LEVEL |
|------|----------------|
|------|----------------|

|       |        |
|-------|--------|
| APR 8 | 122.67 |
|-------|--------|

313352089243202.--Local number, L019.

LOCATION.--Lat 31°33'52", long 89°24'32", Hydrologic Unit 031700004, NE¼NW¼ sec.21, T.7 N., R.14 W., 6 mi east of Seminary on Hwy 590.

Owner: Southwest Jones Water Association.

AQUIFER.--Sand of Catahoula Sandstone of Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 900 ft.

DATUM.--Land-surface datum is about 435 ft. Measuring point: Top of 4 in casing, 1.00 ft above land-surface datum.

REMARKS.--Water level affected by nearby pumping.

PERIOD OF RECORD.--December 1972, April 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 205 ft below land-surface datum, December 31, 1972; lowest measured, 333.54 ft below land-surface datum, April 13, 1984.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE | WATER<br>LEVEL |
|------|----------------|
|------|----------------|

|        |        |
|--------|--------|
| APR 11 | 317.41 |
|--------|--------|

## GROUND-WATER LEVELS

## DE SOTO COUNTY

345726089492901. Local number, D002.

LOCATION.--Lat 34°57'26" long 89°49'29", Hydrologic Unit 08030204, SE¼NW¼ sec.34, T.1 S., R.6 W., 0.35 mi east of center of Olive Branch.

Owner: Town of Olive Branch.

AQUIFER.--Sparta Sand of middle Eocene age.

WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 10 in, depth 266 ft.

DATUM.--Land-surface datum is about 400 ft National Geodetic Vertical Datum of 1929. Measuring point: Breather hole in pump base, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--1956, January 1973, April 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 133.40 ft below land-surface datum, 1956; lowest measured, 154.89 ft below land-surface datum, Apr. 27, 1983.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| MAR 27 | 141.67         |

## FORREST COUNTY

312115089193601. Local number, B006.

LOCATION.--Lat 31°21'15", long 89°19'36", Hydrologic Unit 03170004, SE¼NW¼ sec.32, T.5 N., R.13 W., 2.8 mi north-west of center of Hattiesburg on Lakeview Road.

Owner: City of Hattiesburg.

AQUIFER.--Sand of Hattiesburg Formation of Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in, depth 444 ft.

DATUM.--Land-surface datum is 167.27 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 4.50 ft above land-surface datum.

REMARKS.--Water level affected by nearby pumping.

PERIOD OF RECORD.--September 1955, May 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9 ft below land-surface datum, Sept. 1, 1955; lowest measured 37.72 ft Dec. 13, 1984.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|
| 5           | ---   | 30.99 | 33.30 | 34.83 | 37.20 | 36.14 | 33.29 | 33.66  | 35.95 | 35.19 | 35.57 | 35.19 |
| 10          | ---   | 33.05 | 32.48 | 32.51 | 35.19 | 36.77 | 32.58 | 34.03  | 36.04 | 34.11 | 35.21 | 35.25 |
| 15          | ---   | 33.80 | ---   | 32.90 | 34.87 | 33.43 | 34.69 | 34.23  | 33.97 | 34.87 | 34.16 | 35.64 |
| 20          | ---   | 33.93 | 34.78 | 35.31 | 34.13 | 34.97 | 35.78 | 35.08  | 36.35 | 34.32 | 35.70 | 35.52 |
| 25          | 31.19 | 32.33 | 32.72 | 36.70 | 35.10 | 32.79 | 33.91 | 34.60  | 34.48 | 33.59 | 35.78 | 34.86 |
| EOM         | 32.60 | 32.21 | 35.08 | 34.46 | 36.37 | 32.87 | 32.21 | 34.97  | 33.09 | 33.11 | 34.46 | 34.59 |
| WTR YR 1985 | MEAN  | 34.44 | HIGH  | 30.93 | NOV 4 | LOW   | 37.72 | DEC 13 |       |       |       |       |

311834089170101. Local number, D008.

LOCATION.--Lat 31°18'34", long 89°17'01", Hydrologic Unit 03170005, SE¼NE¼ sec.15, T.4 N., R.13 W., 2 mi southeast of center of Hattiesburg at Williams Street and Alcorn Street.

Owner: City of Hattiesburg.

AQUIFER.--Sand of Catahoula Sandstone of Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 710 ft, screened 610-710 ft.

DATUM.--Land-surface datum is about 140 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 1.75 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--December 1964, October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.07 ft below land-surface datum, Dec. 21, 1964; lowest measured, 97.88 ft below land-surface datum, May 14, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| OCT 23 | 69.29          | APR 15 | 68.78          | SEP 12 | 87.35          |

GROUND-WATER LEVELS  
FORREST COUNTY--Continued

311137089110501. Local number, G116.  
LOCATION.--Lat 31°11'37", long 89°11'05", Hydrologic Unit 03170007, SW¼NE¼ sec.27, T.3 N., R.12 W., 3 mi east of south gage of Camp Shelby at Jackson Avenue and 39th Street.  
Owner: U.S. Government-Mississippi National Guard. Camp Shelby.  
AQUIFER.--Sand of Hattiesburg Formation of Miocene age.  
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4-3 in, depth 416 ft, screened 382-416 ft.  
DATUM.--Land-surface datum is 258.44 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in casing flange, 2.00 ft above land-surface datum.  
REMARKS.--Occasional pumping nearby.  
PERIOD OF RECORD.--1943-45, February 1954 to current year.  
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 122.08 ft below land-surface datum, Apr. 2, 1954; lowest measured, 148.12 ft below land-surface datum, Oct. 23, 1984.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|
| OCT 23 | 148.12      | APR 15 | 148.10      |

310130089094301 (formerly 310130089093101). Local number, L023.  
LOCATION.--Lat 31°01'30", long 89°09'43", Hydrologic Unit 03170007, NW¼NW¼ sec.25, T.1 N., R.12 W., 3 mi southeast of center of Brooklyn at Ashe Nursery.  
Owner: Ashe Nursery.  
AQUIFER.--Sand of Hattiesburg Formation of Miocene age.  
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 728 ft.  
DATUM.--Land-surface datum is about 285 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of concrete base, 0.50 ft above land-surface datum.  
PERIOD OF RECORD.--April 1970 to May 1985 (discontinued).  
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 166.50 ft below land-surface datum, Aug. 5, 1971; lowest measured, 180.55 ft below land-surface datum, May 9, 1984.

Note: Well Destroyed.

310135089093101. Local number, L049 (replaces L023).  
LOCATION.--Lat 31°01'35", long 89°09'31", Hydrologic Unit 03170007, NW¼NW¼ sec.25, T.1 N., R.12 W., 3 mi Southeast of center of Brooklyn at Ashe Nursery.  
Owner: U.S. Forest Service.  
AQUIFER.--Sand of Hattiesburg Formation of Miocene age.  
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 6 in, depth 720 ft.  
DATUM.--Land-surface datum is about 275 ft above NGVD of 1929. Measuring point: Top of 6-in, well seal, 1.25 ft above land-surface datum.  
PERIOD OF RECORD.--April 1985 to current year.  
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 169.80 ft below land-surface datum, Mar. 1, 1970; lowest measured 182.80 ft below land-surface datum, Apr. 21, 1986.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL |
|--------|-------------|
| APR 15 | 180.37      |

FRANKLIN COUNTY

313026091035101. Local number, F001.  
LOCATION.--Lat 31°30'26", long 91°03'51", Hydrologic Unit 08060205, NW¼NE¼ sec.19, T.6 N., R.1 E., 0.1 mi northeast of center of Roxie at 3rd Street and East Boulevard.  
Owner: Town of Roxie.  
AQUIFER.--Sand of Hattiesburg Formation of Miocene age.  
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 250 ft, cased to 230 ft.  
DATUM.--Land-surface datum is about 230 ft National Geodetic Vertical Datum of 1929. Measuring point: Hole in east side of pump base, 1.90 ft above land-surface datum.  
PERIOD OF RECORD.--May 1960 to April 1972, May 1974 to current year.  
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.80 ft below land-surface datum, Apr. 9, 1985; lowest measured, 28.78 ft below land-surface datum, May 9, 1968.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE  | WATER LEVEL |
|--------|-------------|-------|-------------|
| OCT 17 | 20.11       | APR 9 | 17.80       |

## GROUND-WATER LEVELS

## GREENE COUNTY

311435088312201 (Formerly 313530088310501). Local number, M002.

LOCATION.--Lat 31°35'30", long 88°31'05", Hydrologic Unit 03170003, NE¼NW¼ sec.7, T.3 N., R.5 W., 8 mi northeast of center of Leakesville.

Owner: H. F. Garreston, Jr.

AQUIFER.--Sand of Catahoula Sandstone of Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 703 ft.

DATUM.--Land-surface datum is about 107 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of discharge pipe, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--January 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.0 ft above land-surface datum, Jan. 22, 1970; Apr. 24, 1974; lowest measured, 14.00 ft above land-surface datum, Apr. 22, 1985.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| APR 15 | 14.0           |

310856088325401. Local number P039.

LOCATION.--Lat 31°08'56", long 88°32'54", Hydrologic Unit 03170003, NW¼SW¼ sec.12, T.2 N., R.6 W., at Leakesville Landing at Chickasawhay River. Bridge downstream side north end of bridge.

Owner: Pat Harrison Waterway District.

AQUIFER.--Sand of Hattiesburg Formation of Miocene age.

WELL CHARACTERISTICS.--Drilled recreation well, diameter 2 in, depth 341 ft.

DATUM.--Land-surface datum is about 80 ft National Geodetic Vertical Datum of 1929. Measuring point: End of 2-in pipe, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--December 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level 19.0 ft above land-surface datum, Dec. 16, 1981; lowest measured, 15.9 ft above land-surface datum, Apr. 15, 1985.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| APR 15 | 15.9           |

## GRENADA COUNTY

335032089473101. Local number 8102.

LOCATION.--Lat 33°50'32", long 89°47'31", Hydrologic Unit 08030205, SE¼SE¼ sec.20, T.23N., R.5 E., 4 mi north of center of Grenada at Grenada Airport.

Owner: City of Grenada.

AQUIFER.--Meridian Sand Member of Tallahatta Formation of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in, depth 195 ft.

DATUM.--Land-surface datum is 210 ft National Geodetic Vertical Datum of 1929. Measuring point: Breather hole in pump base, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--November 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.72 ft below land-surface datum, Mar. 29, 1984; lowest water level measured, 7.03 ft below land-surface datum, Mar. 27, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| OCT 11 | 3.42           | MAR 27 | 7.03           |

334556089583501. Local number, F112.

LOCATION.--Lat 33°45'56", long 89°58'45", Hydrologic Unit 08030205, SE¼SE¼ sec.16, T.22 N., R.3 E., 0.2 mi northwest of center of Holcomb at school.

Owner: Holcomb School.

AQUIFER.--Sand of Wilcox Group of late Paleocene.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 3 in, depth 983 ft, screened 943-983 ft.

DATUM.--Land-surface datum is 183.14 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 3-in tee, 1.40 ft above land-surface datum, or top of discharge pipe, 1.20 ft above land-surface datum.

PERIOD OF RECORD.--January 1939 to June 1969, May 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 30.4 ft above land-surface datum, July 31, 1941; lowest measured, 6.0 ft above land-surface datum, Apr. 28, 1977.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| MAR 27 | 9.20           |



## GROUND-WATER LEVELS

253

## GRENADA COUNTY--Continued

334128089441701. Local number, H111.

LOCATION.--Lat 33°41'28", long 89°44'17", Hydrologic Unit 08030205, SE¼SE¼ sec.11, T.21 N., R.5 E., 1 mi east of center of Elliot on west bank of Batupan Bogue.

Owner: E. T. Hill.

AQUIFER.--Sand of Wilcox Group of late Paleocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in, depth 502 ft, screened 421-502 ft.

DATUM.--Land-surface datum is 208.69 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of concrete base (since Feb. 11, 1976), 4.00 ft above land-surface datum.

PERIOD OF RECORD.--1943, February 1954 to October 1963, October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.50 ft above land-surface datum, Jan. 2, 1943; lowest measured, 3.72 ft below land-surface datum, Mar. 27, 1986.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| MAR 27 | 3.72           |

334147089433801. Local number, H113.

LOCATION.--Lat 33°41'47", long 89°43'38", Hydrologic Unit 08030205, NE¼SW¼ sec.12, T.21 N., R.5 E., 1.5 mi east of center of Elliot.

Owner: J. W. Willis, Sr.

AQUIFER.--Meridian Sand Member of Tallahatta Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12-10 in, depth 211 ft, screened 161-211 ft.

DATUM.--Land-surface datum is 216.70 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of air vent hole in pump base, 3.40 ft above land-surface datum.

PERIOD OF RECORD.--1954 to October 1963, October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.96 ft below land-surface datum, Mar. 21, 1979; lowest measured, 15.74 ft below land-surface datum, Nov. 6, 1957.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| MAR 27 | 8.44           |

334148089425701. Local number, J002.

LOCATION.--Lat 33°41'48", long 89°42'57", Hydrologic Unit 08030205, NW¼SW¼ sec.7, T.21 N., R.6 E., 2.5 mi east of center of Elliot.

Owner: J. W. Willis, Jr.

AQUIFER.--Sand of Wilcox Group of late Paleocene age.

WELL CHARACTERISTICS.--Drilled domestic artesian well, diameter 12 in, depth 429 ft, cased to 390 ft.

DATUM.--Land-surface datum is 227.21 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of concrete base (since Feb. 11, 1976), 1.50 ft above land-surface datum.

PERIOD OF RECORD.--September 1942, October 1956 to October 1963, October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.10 ft above land-surface datum, Sept. 19, 1942; lowest measured, 17.72 ft below land-surface datum, Apr. 15, 1982.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| MAR 27 | 16.52          |

## HANCOCK COUNTY

302158089372901. Local number, H003.

LOCATION.--Lat 30°21'58", long 89°37'29", Hydrologic Unit 03180004, SW¼NW¼ sec.8, T.8 S., R.16 W., 20 mi northwest of center of Bay St. Louis at NASA site on State Highway 607.

Owner: Mississippi Test Facility (NASA).

AQUIFER.--Sand of Pascagoula Formation of late Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in, depth 1,524 ft, cased to 1,464 ft.

DATUM.--Land-surface datum is 28 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of well head 4.20 ft above land-surface datum.

PERIOD OF RECORD.--January 1963, October 1965 to January 1968, April 1970, April 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 87 ft above land-surface datum, January 1963; lowest measured, 47.1 ft above land-surface datum, Apr. 17, 1985.

## WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| OCT 25 | 51.0           | APR 17 | 47.1           |

## GROUND-WATER LEVELS

## HANCOCK COUNTY--Continued

302140089345901. Local number, H004.

LOCATION.--Lat 30°21'40", long 89°34'59", Hydrologic Unit 03180004, NE¼SE¼ sec.10, T.8 S., R.16 W., 20 mi northwest of center of Bay St. Louis at NASA site on State Highway 607.

Owner: Mississippi Test Facility (NASA).

AQUIFER.--Sand of Pascagoula Formation of late Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 18 in, depth 1,873 ft, cased to 1,803 ft.

DATUM.--Land-surface datum is 21 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of faucet 1.90 ft above land-surface datum.

PERIOD OF RECORD.--1963, August 1965 to January 1968, April 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 104 ft above land-surface datum, 1963; lowest measured, 66.00 ft above land-surface datum, Oct. 25, 1984.

## WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| OCT 25 | 66.0           |

302227089373001. Local number, H005.

LOCATION.--Lat 30°22'27", long 89°37'30", Hydrologic Unit 03180004, NE¼SW¼ sec.5, T.8 S., R.16 W., 20 mi northwest of center of Bay St. Louis at NASA site on State Highway 607.

Owner: Mississippi Test Facility (NASA).

AQUIFER.--Sand of Pascagoula Formation of late Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in, depth 1,481 ft, cased to 1,420 ft.

DATUM.--Land-surface datum 29 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of well head 6.20 ft above land-surface datum.

PERIOD OF RECORD.--May 1964 to March 1968, Apr. 1, 1970, April 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 81.3 ft above land-surface datum June 3, 1966; lowest measured, 49.5 ft above land-surface datum Oct. 10, 1983.

## WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| OCT 25 | 59.7           |

302140089351401. Local number, H006.

LOCATION.--Lat 30°21'40", long 89°35'14", Hydrologic Unit 03180004, NE¼SW¼ sec.10, T.8 S., R.16 W., 20 mi northwest of center of Bay St. Louis at NASA site on State Highway 607.

Owner: Mississippi Test Facility (NASA).

AQUIFER.--Sand of Pascagoula Formation of late Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 18 in, depth 1,695 ft, cased to 1,585 ft.

DATUM.--Land-surface datum is 23 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of concrete base 3.0 ft above land-surface datum.

PERIOD OF RECORD.--October 1965 to February 1968, April 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 94.9 ft above land-surface datum, Nov. 11, 1965; lowest measured, 54.3 ft above land-surface datum, Oct. 25, 1984.

## WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| OCT 25 | 54.3           | APR 17 | 53.5           |

302206089350601. Local number, H007.

LOCATION.--Lat 30°22'06", long 89°35'06", Hydrologic Unit 03180004, NW¼NE¼ sec.10, T.8 S., R.16 W., 20 mi northwest of center of Bay St. Louis at NASA site on State Highway 607.

Owner: Mississippi Test Facility (NASA).

AQUIFER.--Sand of Pascagoula Formation of late Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in, depth 1,434 ft, cased to 1,371 ft.

DATUM.--Land-surface datum is 25 ft National Geodetic Vertical Datum of 1929. Measuring point: Bottom of recorder, 0.4 ft below land-surface datum.

PERIOD OF RECORD.--1964, 1967, April 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 89.6 ft above land-surface datum, Mar. 1, 1967; lowest measured, 54.10 ft above land-surface datum, Oct. 14, 1982.

## WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| OCT 25 | 56.9           |

## GROUND-WATER LEVELS

255

## HANCOCK COUNTY--Continued

302126089351401. Local number, H008.

LOCATION.--Lat 30°21'26", long 89°35'14", Hydrologic Unit 03180004, SW¼SE¼ sec.10, T.8 S., R.16 W., 20 mi northwest of center of Bay St. Louis at NASA site on State Highway 607.

Owner: Mississippi Test Facility (NASA).

AQUIFER.--Sand of Graham Ferry Formation of Pliocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 24 in, depth 672 ft, cased to 460 ft.

DATUM.--Land-surface datum is about 19 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of concrete base, 3.5 ft above land-surface datum.

PERIOD OF RECORD.--April 1965 to January 1968, April 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.9 ft above land-surface datum, Apr. 19, 1965; lowest measured, 1.72 ft above land-surface datum, Oct. 25, 1984.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| OCT 25 | 1.72           |

302118089351501. Local number, H011.

LOCATION.--Lat 30°21'18", long 89°35'15", Hydrologic Unit 03180004, NW¼NE¼ sec.15, T.8 S., R.16 W., 20 mi northwest of center of Bay St. Louis at NASA site on State Highway 607.

Owner: Mississippi Test Facility (NASA).

AQUIFER.--Sand of Graham Ferry Formation of Pliocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 676 ft, cased to 646 ft.

DATUM.--Land-surface datum is 21.4 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 3/4-in gate valve, 2.90 ft above land-surface datum.

PERIOD OF RECORD.--July 1967 to April 1968, April 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.5 ft above land-surface datum, Apr. 20, 1972; lowest measured, 6.95 ft above land-surface datum, Apr. 17, 1985.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| APR 17 | 6.95           |

302118089351502. Local number, H012.

LOCATION.--Lat 30°21'18", long 89°35'15", Hydrologic Unit 03180004, NW¼NE¼ sec.15, T.8 S., R.16 W., 20 mi northwest of center of Bay St. Louis at NASA site on State Highway 607.

Owner: Mississippi Test Facility (NASA).

AQUIFER.--Sand of Graham Ferry Formation of Pliocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 599 ft, cased to 569 ft.

DATUM.--Land-surface datum is 20.9 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 3/4-in gate valve, 2.90 ft above land-surface datum.

PERIOD OF RECORD.--July 1967 to April 1968, April 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.5 ft above land-surface datum, Apr. 20, 1972; lowest measured, 4.87 ft above land-surface datum, Apr. 17, 1985.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| APR 17 | 4.87           |

302118089351503. Local number, H013.

LOCATION.--Lat 30°21'18", long 89°35'15", Hydrologic Unit 03180004, NW¼NE¼ sec.15, T.8 S., R.16 W., 20 mi northwest of center of Bay St. Louis at NASA site on State Highway 607.

Owner: Mississippi Test Facility (NASA).

AQUIFER.--Sand of Graham Ferry Formation of Pliocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 491 ft, cased to 461 ft.

DATUM.--Land-surface datum is 21.2 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 3/4-in gate valve, 2.60 ft above land-surface datum.

PERIOD OF RECORD.--July 1967 to April 1968, April 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.5 ft above land-surface datum, Apr. 20, 1972; lowest measured, 1.0 ft above land-surface datum, Apr. 11, 1968.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| OCT 17 | 2.90           |

## GROUND-WATER LEVELS

## HANCOCK COUNTY--Continued

302118089351504. Local number, H014.

LOCATION.--Lat 30°21'18", long 89°35'15", Hydrologic Unit 03180004, NE¼ sec.15, T.8 S., R.16 W., 20 mi northwest of center of Bay St. Louis at NASA site on State Highway 607.

Owner: Mississippi Test Facility (NASA)

AQUIFER.--Sand of Citronelle Formation of Pliocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in, depth 144 ft, cased to 84 ft.

DATUM.--Land-surface datum is about 20 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.50 ft above land-surface datum.

PERIOD OF RECORD.--1968, January 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.6 ft below land-surface datum, May 1, 1974; lowest measured, 8.3 ft below land-surface datum, June 3, 1968.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| APR 17 | 5.66           |

301858089202301. Local number, K001.

LOCATION.--Lat 30°18'58", long 89°20'23", Hydrologic Unit 03170009, NW¼SW¼ sec.3, T.8 S., R.13 W., 0.5 mi south of center of Bay St. Louis at St. Charles Street and Hancock Street.

Owner: City of Bay St. Louis.

AQUIFER.--Sand of Pascagoula Formation of late Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 1,300 ft, cased to 1,280 ft.

DATUM.--Land-surface datum is about 16 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of plate on well head, 1.20 ft above land-surface datum.

PERIOD OF RECORD.--November 1960 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 30.1 ft above land-surface datum, Nov. 1, 1960; lowest measured, 5.42 ft below land-surface datum, Apr. 16, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| APR 16 | 5.42           |

301900089201801. Local number, K004.

LOCATION.--Lat 30°19'00", long 89°20'18", Hydrologic Unit 03170009, SW¼ sec.30, T.8 S., R.13 W., 0.2 mi north of Beach Boulevard on St. Charles Street.

Owner: City of Bay St. Louis.

AQUIFER.--Sand of Pascagoula Formation of late Miocene age.

WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 8 in, depth 1,210 ft, cased to 1,150 ft.

DATUM.--Land-surface datum is about 16 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of concrete base at land-surface datum.

REMARKS.--Water levels affected by length of time pump off before measurement made.

PERIOD OF RECORD.--August 1975, April 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17 ft above land-surface datum, August 1975; lowest water level measured 2.40 ft above land-surface datum, Apr. 17, 1985.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| OCT 26 | 2.5            | APR 17 | 2.4            |

## HARRISON COUNTY

303110089070201. Local number, G121.

LOCATION.--Lat 30°31'10", long 87°07'02", Hydrologic Unit 03170009, NE¼SW¼ sec.17, T.6 S., R.11 W., 2 mi northwest of center of Lyman at fish hatchery.

Owner: Mississippi Game and Fish Commission.

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 about 70 ft National Geodetic Vertical Datum of 1929. 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, 62.40 ft below land-surface datum, Oct. 16, 1984.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| OCT 16 | 62.40          | APR 16 | 60.64          |



GROUND-WATER LEVELS  
HARRISON COUNTY--Continued

302240089025401. Local number, L144.

LOCATION.--Lat 30°22'40", long 89°02'54", Hydrologic Unit 03170009, SW¼NW¼ sec.1, T.8 S., R.11 W., 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 about 21 ft National Geodetic Vertical Datum of 1929. 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, 42.10 ft below land-surface datum, Oct. 26, 1983.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| APR 16 | 38.09          |

302200089053301. Local number, L154.

LOCATION.--Lat 30°22'00", long 89°05'33", Hydrologic Unit 03170009, NW¼NE¼ sec.9, T.8 S., R.11 W., at center of Gulfport at post office at U.S. Highways 49 and 90.

Owner: U.S. Post Office Dept., 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 National Geodetic Vertical Datum of 1929. 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 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| APR 16 | 13.69          |

302403089082201. Local number, L454.

LOCATION.--Lat 30°24'03", long 89°08'22", Hydrologic Unit 03170009, SW¼SW¼ sec.30, T.7 S., R.12 W., 1.2 mi north of U.S. Naval Reservation, Gulfport.

Owner: Carl McGill.

AQUIFER.--Sand of Miocene age.

WELL CHARACTERISTICS.--Drilled domestic artesian well, diameter 3 in, depth 2,404 ft.

DATUM.--Land-Surface datum is about 20 ft above NGVD of 1929. Measuring point: Top of 3 in pipe, 3.0 ft of above land surface datum.

PERIOD OF RECORD.--October 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 55.9 ft above land-surface datum, Oct. 26, 1984; lowest measured, 54.0 ft above land-surface datum, Apr. 16, 1985.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| OCT 26 | 55.9           | APR 16 | 54.0           |

302355088540301. Local number, M120.

LOCATION.--Lat 30°23'55", long 88°54'03", Hydrologic Unit 03170009, NW¼SE¼ sec.26, T.7 S., R.9 W., 1 mi west of center of Biloxi at Howard Avenue and Querens Street.

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.

DATUM.--Land-surface datum is 21.28 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 8-in flange, 3.00 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--1903, January 1945 to June 1946, March 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 44.0 ft above land-surface datum, 1903; lowest measured, 77.68 ft below land-surface datum, July 29, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY              | OCT   | NOV   | DEC   | JAN        | FEB   | MAR       | APR    | MAY | JUN | JUL   | AUG   | SEP |
|------------------|-------|-------|-------|------------|-------|-----------|--------|-----|-----|-------|-------|-----|
| 5                | 67.34 | 65.13 | 64.29 | 60.91      | 62.43 | 60.35     | 61.35  |     |     | ---   | 68.24 | --- |
| 10               | 67.95 | 65.38 | 62.37 | 59.49      | 61.26 | 62.08     | 62.29  |     |     | ---   | 69.64 | --- |
| 15               | 67.37 | 63.72 | 63.73 | 59.43      | 62.12 | 61.22     | 62.26  |     |     | ---   | 68.90 | --- |
| 20               | 65.85 | 64.38 | 63.17 | 58.99      | 62.01 | 61.57     | 63.35  |     |     | ---   | 62.95 | --- |
| 25               | 65.74 | 65.14 | 61.30 | 62.70      | 60.89 | 61.62     | ---    |     |     | 68.80 | 60.03 | --- |
| EOM              | 66.77 | 62.54 | 60.06 | 61.76      | 61.10 | 61.03     | ---    |     |     | 68.24 | 58.99 | --- |
| WTR YR 1985 MEAN |       | 63.34 |       | HIGH 55.15 | SEP 3 | LOW 69.64 | AUG 10 |     |     |       |       |     |



## GROUND-WATER LEVELS

## HARRISON COUNTY--Continued

302406088593201. Local number, M544.

LOCATION.--Lat 30°24'06", long 88°59'32", Hydrologic Unit 03170009, NW¼SE¼ sec.28, T.7 S., R.10 W., near center of Biloxi at Edgewater Subdivision, Lakeview Drive, north of Pass Road.

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.

DATUM.--Land-surface datum is 25.0 ft National Geodetic Vertical Datum of 1929. Measuring point: 1/2-in plastic plug, top of seal at 1.00 ft above land-surface datum.

PERIOD OF RECORD.--1969, October 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.49 ft below land-surface datum, Apr. 23, 1983; lowest measured, 39.77 ft below land-surface datum, Jun. 6, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY | OCT   | NOV   | DEC | JAN | FEB | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP |
|-----|-------|-------|-----|-----|-----|-------|-------|-------|-------|-------|-------|-----|
| 5   | 33.29 | 32.11 |     |     |     | ---   | 29.48 | 32.05 | 38.47 | 34.76 | 33.70 |     |
| 10  | 33.50 | ---   |     |     |     | ---   | 29.36 | 32.11 | 37.76 | 33.60 | ---   |     |
| 15  | 33.55 | ---   |     |     |     | ---   | 29.63 | 32.74 | 35.92 | 35.43 | ---   |     |
| 20  | 32.85 | ---   |     |     |     | 27.75 | 31.31 | 33.31 | 35.64 | 34.75 | ---   |     |
| 25  | 32.52 | ---   |     |     |     | 27.73 | 30.96 | 32.76 | 35.10 | 34.75 | ---   |     |
| EOM | 32.15 | ---   |     |     |     | 27.85 | 33.70 | 36.60 | 34.80 | 34.06 | ---   |     |

WTR YR 1985 MEAN 33.02 HIGH 26.42 MAR 22 LOW 39.77 JUN 6

301856089145301. Local number, N003.

LOCATION.--Lat 30°18'56", long 89°14'53", Hydrologic Unit 03170009, SW¼NW¼ sec.30, T.8 S., R.13 W., 0.1 mi north-west of center of Pass Christian at 2nd and Clark Streets.

Owner: Town 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 about 15 ft National Geodetic Vertical Datum of 1929. 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, 1.90 ft below land-surface datum, Apr. 16, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL |
|--------|-------------|
| APR 16 | 1.90        |

## HINDS COUNTY

322828090170501. Local number, C015.

LOCATION.--Lat 32°28'28", long 90°17'05", Hydrologic Unit 08060202, SW¼SE¼ sec.3, T.2 N., R.1 W., 0.2 mi northeast of center of Pochontas at elevated water tank.

Owner: Town of Pochontas.

AQUIFER.--Sand of Cockfield Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth reported 786 ft.

DATUM.--Land-surface datum is about 240 ft National Geodetic Vertical Datum of 1929. Measuring point: Hole in plate on well head, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--September 1959, September 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 87.60 ft below land-surface datum, Sept. 15, 1959; lowest measured, 114.13 ft below land-surface datum, May 11, 1984.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|
| OCT 30 | 116.66      | MAR 20 | 116.80      |

321949090361501. Local number, D001.

LOCATION.--Lat 32°19'49", long 90°36'15", Hydrologic Unit 08060202, SW¼SW¼ sec.27, T.6 N., R.4 W., 0.2 mi south of center of Edwards on State Highway 467.

Owner: Town of Edwards.

AQUIFER.--Sand of Cockfield Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in, depth 1,154 ft.

DATUM.--Land-surface datum is about 220 ft National Geodetic Vertical Datum of 1929. Measuring point: Breather hole in west side of pump base, at land-surface datum.

PERIOD OF RECORD.--1930, September 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 84 ft below land-surface datum, 1930; lowest measured, 124.88 ft below land-surface datum, Apr. 6, 1982.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER LEVEL | DATE  | WATER LEVEL |
|-------|-------------|-------|-------------|
| OCT 9 | 118.23      | APR 2 | 115.25      |

GROUND-WATER LEVELS  
HINDS COUNTY--Continued

259

322027090223101. Local number, F009.

LOCATION.--Lat 32°20'27", long 90°22'31", Hydrologic Unit 08060202, SE¼SW¼ sec.23, T.6 N., R.2 W., 2.8 mi west of Clinton off old U.S. Highway 80.

Owner: Lakeridge Subdivision.

AQUIFER.--Sand of Cockfield Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 1,004 ft.

DATUM.--Land-surface datum is about 337 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in casing, 0.25 ft above land-surface datum.

PERIOD OF RECORD.--January 1951, September 1980 to October 1984 (Discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 205 ft below land-surface datum, Jan. 15, 1951; lowest measured, 248.23 below land-surface datum, Aug. 30, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| OCT 30 | 244.53         |

322024090223702. Local number, F042.

LOCATION.--Lat 32°20'24", long 90°22'37", Hydrologic Unit 08060202, SW¼NW¼ sec.26, T.6 N., R.2 W., 2.8 mi west of Clinton off Old U.S. Highway 80.

Owner: Lakeridge Subdivision.

AQUIFER.--Sand of Forest Hill Formation of Oligocene age.

WELL CHARACTERISTICS.--Drilled public-supply well, diameter 6 in, depth 252 ft.

DATUM.--Land-surface datum is about 338 ft National Geodetic Vertical Datum of 1929. Measuring point: 1/2-in hole in top of well seal, 1.75 ft above land-surface datum.

PERIOD OF RECORD.--March 1981 to April 1985 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest level measured, 91.74 ft below land-surface datum, Apr. 2, 1985; lowest measured, 126.42 ft below land-surface datum, Mar. 22, 1984.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL |
|-------|----------------|
| APR 2 | 91.74          |

321945090152201. Local number, G125.

LOCATION.--Lat 32°19'45", long 90°15'22", Hydrologic Unit 03180002, SE¼SW¼ sec.25, T.6 N., R.1 W., 5 mi northwest of center of Jackson at Clinton Boulevard and Dixon Road.

Owner: Shady Oaks Country Club.

AQUIFER.--Sparta Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 852 ft, cased to 802 ft.

DATUM.--Land-surface datum is 372 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 4-in coupling, 0.50 ft above land-surface datum.

PERIOD OF RECORD.--1928, September 1944 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 160.0 ft below land-surface datum, 1928; lowest measured, 302.48 ft below land-surface datum, Oct. 29, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| 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 15 | 299.42         | DEC 27 | 295.55         | FEB 28 | 299.14         | APR 29 | 293.03         | JUN 20 | 300.58         | AUG 27 | 300.80         |
| OCT 30 | 298.58         | JAN 24 | 299.83         | MAR 20 | 298.20         | MAY 28 | 298.18         | JUL 22 | 300.99         | SEP 25 | 300.29         |
| NOV 15 | 298.29         |        |                |        |                |        |                |        |                |        |                |

322301090090001. Local number, H023.

LOCATION.--Lat 32°23'01", long 90°09'00", Hydrologic Unit 03180002, NW¼NE¼ sec.12, T.6 N., R.1 E., 6 mi north of center of Jackson at Briarwood Drive and U.S. 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 about 315 ft National Geodetic Vertical Datum of 1929. 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, 237.07 ft below land-surface datum, Dec. 22, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| 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 30 | 228.05         | DEC 27 | 226.13         | FEB 28 | 227.48         | APR 29 | 226.98         | JUN 20 | 228.79         | AUG 27 | 229.25         |
| NOV 15 | 227.53         | JAN 24 | 225.87         | MAR 20 | 226.34         | MAY 28 | 227.21         | JUL 22 | 229.29         | SEP 25 | 230.85         |

## GROUND-WATER LEVELS

## HINDS COUNTY--Continued

322021090114101. Local number, H043.

LOCATION.--Lat 32°20'21", long 90°11'41", Hydrologic Unit 03180002, NE¼NE¼ sec.23, T.6 N., R.1 E., 6 mi north of center of Jackson at Livingston Road and Stonewall Street.

Owner: Royster Company.

AQUIFER.--Sparta Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in, depth 850 ft.

DATUM.--Land-surface datum is 336.83 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--April 1957 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 186.69 ft below land-surface datum, Apr. 12, 1957; lowest measured, 264.44 ft below land-surface datum, Jan. 27, 1982.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 16 | 251.71      | NOV 15 | 251.05      | JAN 24 | 248.82      | MAR 20 | 252.13      | MAY 28 | 250.91      | JUL 22 | 252.28      |
| OCT 30 | 251.84      | DEC 27 | 249.19      | FEB 28 | 253.04      | APR 29 | 249.65      | JUN 20 | 253.00      |        |             |

321957090105601. Local number, H155.

LOCATION.--Lat 32°19'57", long 90°10'56", Hydrologic Unit 03180002, NW¼SE¼ sec.27, T.6 N., R.1 E., 2 mi north of center of Jackson on North West Street near Taylor Street.

Owner: Mississippi Geological Survey.

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 about 330 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.40 ft above land-surface datum.

PERIOD OF RECORD.--July 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 143.13 ft below land-surface datum, July 11, 1972; lowest 160.18 ft below land-surface datum, Sept. 25, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 16 | 159.09      | DEC 27 | 159.09      | FEB 28 | 159.00      | APR 29 | 159.18      | JUN 20 | 159.44      | AUG 27 | 160.11      |
| OCT 30 | 158.74      | JAN 24 | 159.08      | MAR 20 | 159.15      | MAY 28 | 159.39      | JUL 22 | 159.85      | SEP 25 | 160.18      |
| NOV 15 | 158.99      |        |             |        |             |        |             |        |             |        |             |

322241090073701. Local number, H160.

LOCATION.--Lat 32°22'41", long 90°07'37", Hydrologic Unit 03180002, SE¼NE¼ sec.7, T.6 N., R.2 E., 7 mi 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 about 305 ft National Geodetic Vertical Datum of 1929. 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, 216.09 ft below land-surface datum, Sept. 25, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 30 | 212.73      | DEC 27 | 214.45      | FEB 28 | 213.47      | APR 29 | 211.07      | JUN 20 | 213.66      | AUG 27 | 214.39      |
| NOV 15 | 212.83      | JAN 24 | 210.64      | MAR 20 | 212.16      | MAY 28 | 211.78      | JUL 22 | 214.39      | SEP 25 | 216.09      |

32223090132801. Local number, H163.

LOCATION.--Lat 32°22'23", long 90°13'28", Hydrologic Unit 03180002, SW¼SW¼ sec.8, T.6 N., R.1 E., 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 360 ft National Geodetic Vertical Datum of 1929. Measuring point: 1½ 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, 297.24 ft below land-surface datum Sept. 19, 1984.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 30 | 288.58      | DEC 29 | 286.18      | FEB 28 | 294.59      | MAY 28 | 294.23      | JUL 22 | 296.80      | SEP 25 | 295.59      |
| NOV 15 | 287.69      | JAN 24 | 292.59      | MAR 20 | 293.77      | JUN 20 | 296.01      | AUG 27 | 296.12      |        |             |

## GROUND-WATER LEVELS

261

## HINDS COUNTY--Continued

32222090095201. Local number, H164.

LOCATION.--Lat 32°22'22", long 90°09'52", Hydrologic Unit 03180002, SW¼SE¼ sec.11, T.6 N., R.1 E., 7 mi north of center of Jackson on North State Street.

Owner: Homewood Manor Traylor Court.

AQUIFER.--Sparta Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled domestic artesian well, diameter 4 in, depth 738 ft.

DATUM.--Land-surface datum is about 298 ft National Geodetic Vertical Datum of 1929. 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 217.20 ft below land-surface datum, Nov. 25, 1981.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 30 | 213.17      | DEC 27 | 211.87      | FEB 28 | 213.68      | APR 29 | 211.18      | JUN 20 | 213.93      | AUG 27 | 214.95      |
| NOV 15 | 212.55      | JAN 24 | 211.02      | MAR 20 | 213.18      | MAY 28 | 212.38      | JUL 22 | 214.78      | SEP 25 | 215.14      |

321512090283301. Local number, K055.

LOCATION.--Lat 32°15'12", long 90°28'33", Hydrologic Unit 08060202, NW¼NE¼ sec.26, T.5 N., R.3 W., 2.2 mi west of Raymond.

Owner: J. Eastwood.

AQUIFER.--Sand of Mint Spring Marl of Vicksburg Group of Oligocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 195 ft.

DATUM.--Land-surface datum is about 242 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of plastic well casing, 1.5 ft above land-surface datum.

PERIOD OF RECORD.--September 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 61.11 ft below land-surface datum, Apr. 30, 1980; lowest measured, 64.22 ft below land-surface datum, Oct. 30, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE  | WATER LEVEL |
|--------|-------------|-------|-------------|
| OCT 30 | 64.22       | APR 2 | 63.30       |

321521090245101. Local number, L005.

LOCATION.--Lat 32°15'21", long 90°24'51", Hydrologic Unit 08060202, NE¼NW¼ sec.20, T.5 N., R.2 E., 0.1 mi northwest of center of Raymond on Court Street east of Oak Street.

Owner: Town of Raymond.

AQUIFER.--Sand of Cockfield Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in, depth 1,185 ft.

DATUM.--Land-surface datum is about 328 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of air vent in pump base, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--September 1960, April 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 191.70 ft below land-surface datum, Mar. 18, 1971; lowest measured, 228.59 ft below land-surface datum, Oct. 19, 1984.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE  | WATER LEVEL |
|--------|-------------|--------|-------------|-------|-------------|
| OCT 19 | 228.59      | OCT 30 | 226.29      | APR 2 | 219.71      |

321300090142001. Local number, R023.

LOCATION.--Lat 32°13'00", long 90°14'20", Hydrologic Unit 03180002, SE¼NW¼ sec.6, T.4 N., R.1 E., 6 mi south of center of Jackson at Taylorsville on Elton Road near Terry Road.

Owner: Glen Bright

AQUIFER.--Sand of Cockfield Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 840 ft.

DATUM.--Land-surface datum is about 380 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--June 1959 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 220.97 ft below land-surface datum, June 30, 1959; lowest measured, 272.99 ft below land-surface datum, Mar. 21, 1979.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|
| OCT 30 | 271.93      | MAR 20 | 268.47      |



## GROUND-WATER LEVELS

## HINDS COUNTY--Continued

320554090173902 (Formerly 320430090543302). Local number, V033.

LOCATION.--Lat 32°04'30", long 90°54'33", Hydrologic Unit 03180002, NW¼SW¼ sec.15, T.3 N., R.1 W., 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 about 286 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of concrete base 2.50 ft above land-surface datum.

REMARKS.--Standby well, pumped occasionally.

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, 132.27 ft below land-surface datum, Apr. 2, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE  | WATER<br>LEVEL |
|-------|----------------|-------|----------------|
| NOV 6 | 127.46         | APR 2 | 132.27         |

## HOLMES COUNTY

330650090034501. Local number, L043.

LOCATION.--Lat 33°06'50", long 90°03'45", Hydrologic Unit 08030206, SW¼NE¼ sec.35, T.15 N., R.2 E., 0.3 mi west of center of Lexington on Boulevard Street at McLean Street.

Owner: Eric Norquist.

AQUIFER.--Sand of Tallahatta Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 2 in, depth reported 1,000 ft.

DATUM.--Land-surface datum is about 205 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of tee at well head, at land-surface datum.

PERIOD OF RECORD.--October 1957, January 1959, April 1962, October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.90 ft above land-surface datum, Jan. 12, 1959; lowest measured, 2.48 ft below land-surface datum, Apr. 11, 1983.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL |
|-------|----------------|
| APR 8 | 2.30           |

330448090192201. Local number, P159.

LOCATION.--Lat 33°04'48", long 90°19'22", Hydrologic Unit 08030206, NE¼NW¼ sec.8, T.14 N., R.1 W., at Thornton.

Owner: M. L. Smith.

AQUIFER.--Meridian Sand Member of Tallahatta Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled domestic artesian well, diameter 3-2 in, depth, 1,597 ft, screened 1,557-1,597 ft.

DATUM.--Land-surface datum is 111.72 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of tee, at land-surface datum.

PERIOD OF RECORD.--February 1939 to April 1972, October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 139.6 ft above land-surface datum, July 31, 1941; lowest measured, 53.0 ft above land-surface datum, Apr. 20, 1983.

## WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL |
|-------|----------------|
| APR 8 | 72.0           |

330443089512503. Local number, T004.

LOCATION.--Lat 33°04'43", long 89°51'25", Hydrologic Unit 08060201, SE¼ sec.11, T.14 N., R.4 E., 0.3 mi northwest of center of Durant at Lamar Street and Ramsey Street.

Owner: Town of Durant.

AQUIFER.--Meridian Sand Member of Tallahatta Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in, depth 700 ft.

DATUM.--Land-surface datum is 267 ft National Geodetic Vertical Datum of 1929. Measuring point: 3/4-in hole in west side of well head, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--January 1957, October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6 ft above land-surface datum, January 1957; lowest measured, 27.92 ft below land-surface datum, Apr. 8, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL |
|-------|----------------|
| APR 8 | 27.92          |



## GROUND-WATER LEVELS

263

## HOLMES COUNTY--Continued

330420089510901. Local number, T014.

LOCATION.--Lat 33°04'20", long 89°51'09", Hydrologic Unit 08060201, SE¼NE¼ sec.14, T.14 N., R.4 E., 0.1 mi southeast of center of Durant at Cedar Street and Love Street.

Owner: Illinois Central Railroad.

AQUIFER.--Sand of Tallahatta Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in, depth 608 ft, cased to 588 ft.

DATUM.--Land-surface datum is about 263 ft National Geodetic Vertical Datum of 1929. Measuring point: 2-in hole in top of casing, 0.60 ft above land-surface datum.

PERIOD OF RECORD.--October 1959, October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.77 ft above land-surface datum, Oct. 8, 1959; lowest measured, 10.70 ft below land-surface datum, Apr. 8, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL |
|-------|----------------|
| APR 8 | 10.70          |

## HUMPHREYS COUNTY

331539090351701. Local number, B014.

LOCATION.--Lat 33°15'39", long 90°35'17", Hydrologic Unit 08030207, SW¼NW¼ sec.2, T.16 N., R.4 W., in Isola.

Owner: Mary Ann Demsey (J. D. Lee home).

AQUIFER.--Sand of Tallahatta Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 1400 ft.

DATUM.--Land-surface datum is about 111 ft National Geodetic Vertical Datum of 1929. Measuring point: 3-in tee at well head, 2.00 ft above land surface datum.

PERIOD OF RECORD.--December 1938, April 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.0 ft above land-surface datum Dec. 10, 1938; lowest measured, 11.0 ft above land-surface datum, Apr. 15, 1984.

## WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| MAR 25 | 11.9           |

330606090353501. Local number, E088.

LOCATION.--Lat 33°06'06", long 90°35'35", Hydrologic Unit 08030207, NW¼SW¼ sec.35, T.15 N., R.4 W., 7.5 mi southwest of Belzoni.

Owner: Prather Farms.

AQUIFER.--Mississippi River Valley Alluvium of Pleistocene and Holocene age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 16 in, depth 96 ft.

DATUM.--Land-surface datum is about 96 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 16 in casing, 1.10 ft above land-surface datum.

PERIOD OF RECORD.--July 1984 to current year.

EXTREMES FOR PERIOD OF RECORDS.--Highest water level measured, 18 ft below land-surface datum, 1979; lowest measured, 26.21 ft below land-surface datum June 19, 1986.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| DEC 28 | 18.50          | MAR 25 | 17.28          | JUN 19 | 26.21          |

## ITAWAMBA COUNTY

341633088243801. Local number, G024.

LOCATION.--Lat 34°16'33", long 88°24'38", Hydrologic Unit 03160101, NW¼NE¼ sec.25, T.9 S., R.8 E., 0.2 mi northwest of center of Fulton on Hill Street at Waterworks.

Owner: Town of Fulton.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in, depth 164 ft.

DATUM.--Land-surface datum is about 320 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.25 ft above land-surface datum.

PERIOD OF RECORD.--August 1954, August 1957 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.6 ft below land-surface datum, Feb. 16, 1959; lowest measured, 74.65 ft below land-surface datum, Apr. 20, 1971.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| DEC 12 | 40.38          | APR 23 | 40.87          |

## GROUND-WATER LEVELS

## ITAWAMBA COUNTY--Continued

341604088244601. Local number, G067.

LOCATION.--Lat 34°16'04", long 88°24'46", Hydrologic Unit 03160101, SW¼SE¼ sec.25, T.9 S., R.8 E., 0.6 mi southeast of center of Fulton along railroad track.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 175 ft.

DATUM.--Land-surface datum is about 284 ft National Geodetic Vertical Datum of 1929. Measuring point: Base of recorder house floor 3.80 ft above land-surface datum.

REMARKS.--Water levels affected by nearby dewatering project.

PERIOD OF RECORD.--June 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.17 ft below land-surface datum, June 8, 1978; lowest measured, 44.16 ft below land-surface datum, Oct. 2, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY              | OCT   | NOV   | DEC | JAN               | FEB   | MAR             | APR   | MAY   | JUN   | JUL   | AUG | SEP |
|------------------|-------|-------|-----|-------------------|-------|-----------------|-------|-------|-------|-------|-----|-----|
| 5                | 25.55 | 25.55 |     | ---               | 16.00 | 15.97           | 15.34 | ---   | 15.00 | 15.18 |     |     |
| 10               | 25.44 | 25.53 |     | ---               | 16.05 | 15.87           | 15.56 | ---   | 15.54 | 15.16 |     |     |
| 15               | 25.49 | 25.53 |     | ---               | 15.82 | 15.75           | 14.90 | ---   | 15.66 | 15.76 |     |     |
| 20               | 25.45 | 25.53 |     | ---               | 16.00 | 15.32           | 15.76 | ---   | 15.33 | 16.04 |     |     |
| 25               | 25.46 | ---   |     | ---               | 15.92 | 15.50           | 15.51 | 14.56 | 15.31 | 15.52 |     |     |
| EOM              | 25.51 | ---   |     | 16.02             | 15.93 | 15.17           | ---   | 14.69 | 15.54 | ---   |     |     |
| WTR YR 1985 MEAN |       | 17.95 |     | HIGH 14.11 MAY 27 |       | LOW 25.58 OCT 2 |       |       |       |       |     |     |

## JACKSON COUNTY

302454088493401. Local number, N048.

LOCATION.--Lat 30°24'55", long 88°49'35", Hydrologic Unit 03170009, SE¼SW¼ sec.19, T.7 S., R.8 W., 0.1 mi east of depot at Ocean Springs at Robinson Avenue and Cash Alley.

Owner: Louisville and Nashville 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 about 23 ft National Geodetic Vertical Datum of 1929. Measuring point: Hole in northwest side of pump, 0.80 ft above land-surface datum.

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, 83.33 ft below land-surface datum, Oct. 26, 1983.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|
| OCT 24 | 76.22       | APR 16 | 77.88       |

302357088473801. Local number, N073.

LOCATION.--Lat 30°23'57", long 88°47'38", Hydrologic Unit 03170009, SE¼NW¼ sec.28, T.2 S., R.8 W., 2 mi southeast of center of Ocean Springs on Henley Street near park entrance.

Owner: Magnolia State Park.

AQUIFER.--Sand of Graham Ferry Formation of Pliocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 536 ft, screened 516-536 ft.

DATUM.--Land-surface datum is about 22 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--April 1938, June 1956 to April 1973, June 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.0 ft above land-surface datum, Apr. 8, 1938; lowest measured, 71.71 ft below land-surface datum, Oct. 22, 1981.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|
| OCT 24 | 70.21       | APR 16 | 70.57       |

302503088481602. Local number, N511.

LOCATION.--Lat 30°25'03", long 88°48'16", Hydrologic Unit 03170009, NE¼SE¼ sec.20, T.7 S., R.8 W., 1.5 mi east of 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 about 5 ft National Geodetic Vertical Datum of 1929. 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, 23.1 ft above land-surface datum, Oct. 24, 1984.

| DATE   | WATER LEVEL |
|--------|-------------|
| OCT 24 | 23.1        |

## GROUND-WATER LEVELS

265

## JACKSON COUNTY--Continued

302451088325901. Local number, P045.

LOCATION.--Lat 30°24'51", long 99°32'59", Hydrologic Unit 03170008, NE¼NE¼ sec.10, T.7 S., R.6 W., 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 about 20 ft National Geodetic Vertical Datum of 1929. 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 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| OCT 24 | 44.40          | APR 16 | 43.80          |

302244088325801. Local number, P068.

LOCATION.--Lat 30°22'44", long 88°32'58", Hydrologic Unit 03170006, SE¼NE¼ sec.2, T.8 S., R.6 W., 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 about 12 ft National Geodetic Vertical Datum of 1929. 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 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| OCT 25 | 80.37          | APR 16 | 77.09          |

302205088334005. Local number, P113.

LOCATION.--Lat 30°22'05", long 88°33'40", Hydrologic Unit 03170006, NW¼NW¼ sec.5, T.8 S., R.6 W., 0.2 mi northwest of center of Pascagoula at Railroad Avenue and Frederic Street.

Owner: City of Pascagoula.

AQUIFER.--Sand of Graham Ferry Formation of Pliocene age.

WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 10 in, depth 388 ft, cased to 308 ft.

DATUM.--Land-surface datum is about 13 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing (since Apr. 20, 1976), at land-surface datum.

PERIOD OF RECORD.--April 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.40 ft below land-surface datum, Apr. 10, 1958; lowest measured, 75.58 ft below land-surface datum, July 13, 1977.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| OCT 25 | 59.85          | APR 16 | 57.27          |

302134088330803. Local number, P124.

LOCATION.--Lat 30°21'34", long 88°33'08", Hydrologic Unit 03170006, SW¼SE¼ sec.11, T.8 S., R.6 W., 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 National Geodetic Vertical Datum of 1929. 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 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| OCT 24 | 87.16          | APR 16 | 75.37          |

## GROUND-WATER LEVELS

## JACKSON COUNTY--Continued

302042088331801. Local number, P134.

LOCATION.--Lat 30°20'42", long 88°33'18", Hydrologic Unit 03170006, SE¼ sec.6, T.8 S., R.6 W., 1.5 mi south of center of Pascagoula at Farnsworth Avenue and Fifth 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 National Geodetic Vertical Datum of 1929. 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 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| OCT 24 | 76.39          | APR 16 | 66.88          |

302623088311101. Local number, Q016.

LOCATION.--Lat 30°26'23", long 88°31'11", Hydrologic Unit 03170008, SW¼SW¼ sec.17, T.7 S., R.5 W., 2 mi east of center of Escatawpa on Elder Ferry Road.

Owner: Thiokol Chemical Corporation.

AQUIFER.--Sand of Pascagoula Formation of late Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in, depth 967 ft.

DATUM.--Land-surface datum is about 7 ft National Geodetic Vertical Datum of 1929. Measuring point: 2-in horizontal pipe, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--July 1952, October 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18 ft above land-surface datum, July 1952; lowest measured, 0.86 ft above land-surface datum, Oct. 24, 1984.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| OCT 24 | 0.86           | APR 16 | 2.4            |

302535088303501. Local number, Q025.

LOCATION.--Lat 30°25'35", long 88°30'35", Hydrologic Unit 03170008, NW¼NE¼ sec.20, T.7 S., R.5 W., 2 mi east of center of Escatawpa on Elder Ferry Road at packing plant.

Owner: 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 about 4 ft National Geodetic Vertical Datum of 1929. 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 below 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 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| APR 16 | 31.94          |

302126088293801. Local number, Q112.

LOCATION.--Lat 30°21'32", long 88°29'38", Hydrologic Unit 03170009, SW¼SW¼ sec.9, T.8 S., R.5 W., 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 about 3.4 ft National Geodetic Vertical Datum of 1929. 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 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| OCT 25 | 12.14          | APR 16 | 11.44          |



## GROUND-WATER LEVELS

267

## JACKSON COUNTY--Continued

302304088305901. Local number, Q149.

LOCATION.--Lat 30°23'04", long 88°30'59", Hydrologic Unit 03170006, SE¼SE¼ sec.31, T.8 S., R.5 W., 0.5 mi west of State Highway 607 on U.S. Highway 90 east of Pascagoula.

Owner: Dairy Fresh Corporation.

AQUIFER.--Sand of Graham Ferry Formation of Pliocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 333 ft.

DATUM.--Land-surface datum is about 15 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--June 1963, August 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 63 ft below land-surface datum, June 1, 1963; lowest water level measured 111.52 ft below land-surface datum, May 17, 1978.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| OCT 24 | 102.98         | APR 16 | 102.74         |

302103088294701. Local number, Q403.

LOCATION.--Lat 33°21'03", long 88°29'47", Hydrologic Unit 03170009, NE¼SE¼ sec.17, T.8 S., R.5 W., 5 mi 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.

DATUM.--Land-surface datum is about 12 ft National Geodetic Vertical Datum of 1929. 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, 55.35 ft below land-surface datum, July 19, 1982; lowest measured, 145.1 ft below land-surface datum, June 19, 1974.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| OCT 24 | 105.11         | APR 16 | 87.48          |

302253088302401. Local number Q407.

LOCATION.--Lat 30°22'53", long 88°30'24", Hydrologic Unit 03170006, SW¼NW¼ sec.5, T.8 S., R.5 W., 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 about 13.5 ft National Geodetic Vertical Datum of 1929. 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, 92.0 ft below land-surface datum Mar. 1, 1975; lowest measured, 149.99 ft below land-surface datum, Oct. 22, 1981.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| OCT 24 | 138.70         | APR 16 | 137.16         |

302141088313101. Local number, Q424.

LOCATION.--Lat 30°21'41", long 88°31'31", Hydrologic Unit 03170009, sec.30, T.8 S., R.5 W., 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 about 12 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--September 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.25 ft below land-surface datum, Apr. 21, 1983; lowest measured, 25.0 ft below land-surface datum, Sept. 2, 1976.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| OCT 24 | 20.58          | FEB 20 | 20.66          | APR 16 | 20.01          |



## GROUND-WATER LEVELS

## JEFFERSON COUNTY

314245091034601. Local number, H001.

LOCATION.--Lat 31°42'45", long 91°03'46", Hydrologic Unit 08060204, SW¼NW¼ sec.45, T.9 N., R.1E., 0.1 mi west of courthouse in Fayette at waterworks.

Owner: Town of Fayette.

AQUIFER.--Sand of Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in., depth 262 ft.

DATUM.--Land-surface datum is about 280 ft National Geodetic Vertical Datum of 1929. Measuring point: Air vent in side of pump base, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--February 1961, November 1980, April 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 134.10 ft below land-surface datum, Feb. 17, 1961; lowest measured 154.99 ft below land-surface datum, Oct. 17, 1984.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| OCT 17 | 154.99         |

314247091034201. Local number, H003.

LOCATION.--Lat 31°42'40", long 91°03'40", Hydrologic Unit 08060204, SW¼NW¼ lot 45, T.9 N., R.1 E., 0.1 mi west of courthouse in Fayette at waterworks.

Owner: Town of Fayette.

AQUIFER.--Sand of Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in, depth reported 272 ft, screened 232-272 ft cased to 232 ft.

DATUM.--Land-surface datum is 280 ft National Geodetic Vertical Datum of 1929 (formerly 270 ft). Measuring point: Top of casing, 1.10 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--March 1961 to April 1984 (destroyed).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 117.60 ft below land-surface datum, Sept. 9, 1962; lowest measured, 152.69 ft below land-surface datum, Apr. 17, 1984.

## JONES COUNTY

314210089084401. Local number, C034.

LOCATION.--Lat 31°42'47", long 89°08'44", Hydrologic Unit 3170005, SW¼SE¼ sec.31, T.9 N., R.11 W., north of center of Laurel at 10th Avenue and 8th Street.

Owner: City of Laurel.

AQUIFER.--Sand of Catahoula Sandstone of Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 18-12 in, depth 383 ft.

DATUM.--Land-surface datum is about 276 ft National Geodetic Vertical Datum of 1929. Measuring point: 1-in hole in pump base plate, 0.75 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--October 1945, September 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 127 ft below land-surface datum, October 1945; lowest measured, 216.39 ft below land-surface datum, June 9, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5   | 205.33 | 200.06 | 204.60 | 204.72 | 205.21 | 207.01 | 203.88 | ---    | 213.25 | 210.01 | 208.38 | 205.66 |
| 10  | 201.82 | 203.09 | 204.54 | 205.20 | 206.44 | 206.13 | 204.29 | ---    | 216.20 | 209.65 | 208.76 | 205.66 |
| 15  | 198.04 | 204.40 | 204.80 | 205.58 | 207.24 | 206.60 | ---    | ---    | 210.33 | 207.56 | 208.46 | ---    |
| 20  | 197.81 | 204.66 | 205.43 | 205.16 | 207.18 | 206.54 | ---    | ---    | 209.51 | 208.35 | 205.66 | 208.71 |
| 25  | 199.43 | 204.42 | 205.39 | 204.30 | 206.64 | 203.01 | ---    | 203.96 | 210.05 | 208.84 | 205.66 | 209.20 |
| EOM | 200.07 | 204.72 | 204.84 | 205.11 | 207.03 | 203.95 | ---    | 207.59 | 209.02 | 207.95 | 205.66 | 208.74 |

WTR YR 1985 MEAN 205.96 HIGH 196.74 OCT 23 LOW 216.39 JUN 9

314716089054801. Local number, C111.

LOCATION.--Lat 31°47'16", long 89°05'48", Hydrologic Unit 3170005, NE¼SE¼ sec.33, T.10 N., R.11 W., 6.5 mi north of center of Laurel at Sharon Community.

Owner: Sharon Water Association.

AQUIFER.--Sand of Catahoula Sandstone of Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6-4 in, depth 248 ft.

DATUM.--Land-surface datum is about 305 ft National Geodetic Vertical Datum of 1929. Measuring point: 1/2-in hole in 6-in well seal, 2.00 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--February 1972, December 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 110 ft below land-surface datum, Feb. 22, 1972; lowest measured, 158.15 ft below land-surface datum, Sept. 15, 1983.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL |
|-------|----------------|
| APR 8 | 143.90         |

## GROUND-WATER LEVELS

269

## JONES COUNTY--Continued

313928089103001. Local number, F020.

LOCATION.--Lat 31°39'28", long 89°10'30", Hydrologic Unit 03170005, NE¼SE¼ sec.14, T.8 N., R.12 W., 5 mi southwest of center of Laurel and 0.2 mi south of Laurel Airport.

Owner: City of Laurel.

AQUIFER.--Sand of Catahoula Sandstone of Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 20-12 in, depth 466 ft, cased to 406 ft. DATUM.--Land-surface datum is about 220 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 2.00 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 118.8 ft below land-surface datum, Dec. 5, 1977; lowest measured, 202.39 ft below land-surface datum, Aug. 15, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY | OCT    | NOV    | DEC    | JAN    | FEB    | MAR | APR | MAY    | JUN    | JUL    | AUG    | SEP    |
|-----|--------|--------|--------|--------|--------|-----|-----|--------|--------|--------|--------|--------|
| 5   | 167.13 | 157.08 | 151.01 | 151.06 | 157.08 |     |     | ---    | 167.91 | 164.88 | 171.26 | 158.86 |
| 10  | 167.80 | 159.69 | 150.93 | 147.40 | 153.23 |     |     | ---    | 170.03 | 166.91 | 168.03 | 162.52 |
| 15  | 165.52 | 156.76 | 152.84 | 150.28 | 157.08 |     |     | ---    | 171.07 | 167.52 | 165.50 | 157.09 |
| 20  | 166.78 | 153.94 | 148.00 | 149.65 | 156.33 |     |     | ---    | 171.79 | 171.14 | 166.96 | 161.22 |
| 25  | 166.44 | 154.73 | 149.43 | 163.57 | 151.55 |     |     | 150.64 | 172.24 | 165.79 | 165.05 | 157.21 |
| EOM | 164.86 | 154.47 | 146.85 | 157.08 | ---    |     |     | 157.08 | 171.38 | 166.50 | 164.96 | 157.21 |

WTR YR 1985 MEAN 160.55 HIGH 144.87 JAN 1 LOW 175.14 JUN 9

314143089083901. Local number, G055.

LOCATION.--Lat 31°41'43", long 89°08'39", Hydrologic Unit 03170005, NW¼NW¼ sec.6, T.8 N., R.11 W., 1 mi west of the west of the center of Laurel at 6th Street and 14th Avenue.

Owner: City of Laurel.

AQUIFER.--Sand of Catahoula Sandstone of Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 24-12 in, depth 405 ft, cased to 345 ft. DATUM.--Land-surface datum is 279.2 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 2.00 ft above land-surface datum.

REMARKS.--Water level affected by nearby pumping.

PERIOD OF RECORD.--March 1964, January 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 126 ft below land-surface datum, March 1964; lowest measured, 198.87 ft below land-surface datum, Sept. 19, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL |
|--------|-------------|
| SEP 19 | 198.87      |

## LAFAYETTE COUNTY

343005089301301. Local number, 8001.

LOCATION.--Lat 34°30'05", long 89°30'13", Hydrologic Unit 08030201, NW¼SE¼ sec.3, T.7 S., R.3 W., 0.2 mi east of State Highway 7 at Abbeville.

Owner: Town of Abbeville.

AQUIFER.--Sand of lower part of Wilcox Group of Paleocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in, depth 520 ft.

DATUM.--Land-surface datum is about 420 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.00 ft above land-surface datum.

REMARKS.--Water level affected by pumping.

PERIOD OF RECORD.--February 1963, September 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 155 ft below land-surface datum, February 1963; lowest measured, 163.01 ft below land-surface datum, Mar. 27, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL |
|--------|-------------|
| MAR 27 | 163.01      |

## GROUND-WATER LEVELS

## LAFAYETTE COUNTY--Continued

342550089312801. Local number, 8004.

LOCATION.--Lat 34°25'50", long 89°31'28", Hydrologic Unit 08030201, SW¼NW¼ sec.33, T.7 S., R.3 W., 5 mi north of center of Oxford on west side of State Highway 7.

Owner: U.S. Plywood Company.

AQUIFER.--Sand of Meridian Sand Member of Tallahatta Formation of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in, depth 248 ft, cased to 208 ft.

DATUM.--Land-surface datum is about 430 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of concrete base, 1.80 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 79.40 ft below land-surface datum, June 16, 1980; lowest measured, 88.65 ft below land-surface datum, Dec. 29, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5   | 80.62 | 80.67 | 80.64 | 80.52 | 80.77 | 80.94 | 81.25 | 81.22 | 81.09 | 80.39 | 80.78 | 80.61 |
| 10  | 80.75 | 80.62 | 80.40 | 80.68 | 80.65 | 80.65 | 81.09 | 80.98 | 81.14 | 80.98 | 80.59 | 80.42 |
| 15  | 80.40 | 80.81 | 80.77 | 80.81 | 80.85 | 80.79 | 80.98 | 81.27 | 80.70 | 80.59 | 80.74 | 80.56 |
| 20  | 80.23 | 80.87 | 80.74 | 81.12 | 80.89 | 80.73 | 81.08 | 80.99 | 80.78 | 80.59 | 80.61 | 80.83 |
| 25  | 80.44 | 80.66 | 80.97 | 80.91 | 80.75 | 80.81 | 80.97 | 80.99 | 80.66 | 80.42 | 80.44 | 80.52 |
| EOM | 80.54 | 80.46 | 80.40 | 80.68 | 80.71 | 81.10 | 81.12 | 81.15 | 80.54 | 80.66 | 80.29 | 80.85 |

WTR YR 1985 MEAN 80.74 HIGH 80.09 OCT 14 LOW 81.45 APR 7

342136089315001. Local number, F005.

LOCATION.--Lat 34°21'36", long 89°31'50", Hydrologic Unit 08030203, NW¼NE¼ sec.29, T.8 S., R.3 W., 1 mi southwest of center of Oxford at University.

Owner: University of Mississippi.

AQUIFER.--Sand of Meridian Sand Member of Tallahatta Formation of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 16 in, depth 113 ft, cased to 98 ft.

DATUM.--Land-surface datum is about 460 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of concrete base, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--1962, October 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 71.14 ft below land-surface datum, Dec. 9, 1976; lowest measured, 82.00 ft below land-surface datum, March 1962.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 11 | 72.84       | DEC 13 | 72.42       | MAR 29 | 72.33       | JUN 18 | 72.29       |

342130089313001. Local number, F021.

LOCATION.--Lat 34°21'30", long 89°31'30", Hydrologic Unit 08030203, SW¼NW¼ sec.28, T.8 S., R.3 W., 1.5 mi southwest of center of Oxford at Chambers Manufacturing Company south of State Highway 6 on Old Taylor Road.

Owner: City of Oxford.

AQUIFER.--Sand of Meridian Sand Member of Tallahatta Formation of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 16 in, depth reported 250 ft.

DATUM.--Land-surface datum is about 470 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of concrete base, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--October 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 81.06 ft below land-surface datum, July 23, 1979; lowest measured, 134.50 ft below land-surface datum, Mar. 9, 1983.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL |
|--------|-------------|
| MAR 29 | 102.85      |

342104089320301. Local number, F112.

LOCATION.--Lat 34°21'04", long 89°32'03", Hydrologic Unit 08030203, SW¼SE¼ sec.29, T.8 S., R.3 W., 1.5 mi south of State Highway 6 on Old Taylor Road.

Owner: City of Oxford.

AQUIFER.--Sand of Wilcox Group of early Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 439 ft.

DATUM.--Land-surface datum is about 470 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.00 ft above land-surface datum.

REMARKS.--Water levels affected by pumping.

PERIOD OF RECORD.--October 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 162.85 ft below land-surface datum, June 7, 1983; lowest measured, 226.15 ft below land-surface datum, June 30, 1977.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 11 | 162.63      | DEC 13 | 162.19      | MAR 29 | 162.92      | JUN 18 | 162.11      |

## GROUND-WATER LEVELS

271

## LAMAR COUNTY

310935089252001. Local number, L063.

LOCATION.--Lat 31°09'35", long 89°25'20", Hydrologic Unit 03180004, SE¼SE¼ sec.5, T.2 N., R.14 W., 1.5 mi northwest of center of Purvis on State Highway 581 at elevated water tank.

Owner: Progress Water Association.

AQUIFER.--Sand of Catahoula Sandstone of early Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in, depth 960 ft, cased to 910 ft.

DATUM.--Land-surface datum is about 370 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 2.30 ft above land-surface datum.

PERIOD OF RECORD.--1968, September 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 220 ft below land-surface datum, 1968; lowest measured, 266.08 ft below land-surface datum, July 25, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| OCT 26 | 261.57         | FEB 20 | 265.30         | APR 17 | 262.87         | JUL 25 | 266.08         |

310934089252101. Local number, L093.

LOCATION.--Lat 31°09'35", long 89°25'21", Hydrologic Unit 03180004, SE¼SE¼ sec.5, T.2 N., R.14 W., 1.5 mi northwest of center of Purvis on State Highway 581.

Owner: Progress Water Association.

AQUIFER.--Sand of Hattiesburg Formation of Miocene age.

WELL CHARACTERISTICS.--Drilled public supply well, diameter 8-6 in, depth 264 ft.

DATUM.--Land-surface datum is about 375 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 3/4-in air vent, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--January 1976, November 1980, September 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 142 ft below land-surface datum, Jan. 27, 1976; lowest measured, 154.36 ft below land-surface datum, Apr. 15, 1983.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| FEB 20 | 152.05         | JUL 25 | 151.98         |

## LAUDERDALE COUNTY

321902088445701. Local number, M003.

LOCATION.--Lat 32°19'02", long 88°44'57", Hydrologic Unit 03170001, NW¼SE¼ sec.34, T.6 N., R.15 E., 4 mi southwest of center of Meridian on U.S. Highway 11 at fish hatchery.

Owner: U.S. Fish and Wildlife.

AQUIFER.--Sand of lower part of Wilcox Group of late Paleocene age.

WELL CHARACTERISTICS.--Drilled hatchery-supply artesian well, diameter 10-8 in, depth 729 ft, cased to 688 ft.

DATUM.--Land-surface datum is about 280 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of air vent in pump base, at land-surface datum.

REMARKS.--Water levels affected by pumping.

PERIOD OF RECORD.--January 1964 to October 1969, April 1971 to November 1974, October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.37 ft above land-surface datum, Oct. 20, 1971; lowest measured, 18.41 ft below land-surface datum, Sept. 16, 1983.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE  | WATER<br>LEVEL |
|--------|----------------|-------|----------------|
| OCT 31 | 6.34           | APR 4 | 5.77           |

## LAWRENCE COUNTY

313310090062001. Local number, G002.

LOCATION.--Lat 31°33'10", long 90°06'20", Hydrologic Unit 03180003, NW¼NW¼ sec.28, T.7 N., R.11 E., near center of Monticello, 400 ft northwest of courthouse on Washington Street.

Owner: Town of Monticello.

AQUIFER.--Sands of Catahoula Sandstone of early Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10-6 in, depth 895 ft.

DATUM.--Land-surface datum is 198 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 8-in casing, 2.80 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--November 1949, November 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 18 ft below land-surface datum November 1949; lowest measured, 147.77 ft below land-surface datum, Apr. 9, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL |
|-------|----------------|
| APR 9 | 147.77         |



## GROUND-WATER LEVELS

## LEAKE COUNTY

324427089295201. Local number, L001.

LOCATION.--Lat 32°44'20", long 89°29'50", Hydrologic Unit 03180001, SW¼SE¼ sec.5, T.10 N., R.8 E., 2.5 mi east of center of Carthage on State Highway 16 at McAfee.

Owner: C. Daugherty.

AQUIFER.--Sand of middle part of Wilcox Group of late Paleocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4-2 in, depth reported 700 ft, screened 680-700 ft cased to 680 ft.

DATUM.--Land-surface datum is about 350 ft National Geodetic Vertical Datum of 1929. Measuring point: top of casing, 2.50 ft above land-surface datum.

PERIOD OF RECORD.--June 1957 to October 1963, April 1965, November 1968 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.81 ft below land-surface datum, May 1, 1958; lowest measured, 46.07 ft below land-surface datum, Oct. 31, 1984.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| OCT 31 | 46.07          |

## LEE COUNTY

341555088463501. Local number, G043

LOCATION.--Lat 34°15'55", long 88°46'35", Hydrologic Unit 03160102, SW¼SE¼ sec.28, T.9 S., R.5 E., 4 mi west of center of Tupelo on Chesterfield Road.

Owner: City of Tupelo.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 16-18 in, depth 686 ft.

DATUM.--Land surface datum is about 320 ft National Geodetic Vertical Datum of 1929. Measuring point: Air vent in pump base, 1.5 ft above land-surface datum.

PERIOD OF RECORD.--March 1969, October 1979, June 1981, November 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 153 ft below land-surface datum, Mar. 1, 1969; lowest measured, 241.80 ft below land-surface datum, Apr. 24, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| DEC 12 | 240.16         | APR 24 | 241.80         |

341632088403001. Local number, H009.

LOCATION.--Lat 34°16'32", long 88°40'30", Hydrologic Unit 03160102, SW¼NE¼ sec.28, T.9 S., R.6 E., about 2.5 mi east of Tupelo and north of U.S. Highway 78 on Saltillo road.

Owner: Pierce Grocery.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled domestic artesian well, diameter 4 in, depth 335 ft.

DATUM.--Land-surface datum is about 280 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--December 1947, January 1967 to February 1968, October 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 35 ft below land-surface datum, Dec. 1, 1947; lowest measured 173.90 ft below land-surface datum, Aug. 28, 1984.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| DEC 12 | 161.50         | APR 23 | 166.38         |

341547088422901. Local number, H022.

LOCATION.--Lat 34°15'47", long 88°42'29", Hydrologic Unit 03160102, NW¼NW¼ sec.31, T.9 S., R.6 E., 0.5 mi northwest of center of Tupelo at Leake Street and Park Avenue.

Owner: City of Tupelo.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12-8 in, depth 430 ft, cased to 370 ft.

DATUM.--Land-surface datum is about 280 ft National Geodetic Vertical Datum of 1929. Measuring point: Air vent in north side of pump base, at land-surface datum.

REMARKS.--Water level affected by nearby pumping.

PERIOD OF RECORD.--1954, October 1965 to October 1967, April 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 120 ft below land-surface datum, 1954; lowest measured, 267.13 ft below land-surface datum, Apr. 25, 1984.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| DEC 12 | 226.53         | APR 24 | 213.33         |



## LEE COUNTY--Continued

341939088423601. Local number, H035.

LOCATION.--Lat 34°19'39", long 88°42'36", Hydrologic Unit 03160102, SW¼NE¼ sec.6, T.9 S., R.6 E., 0.5 mi north of center of Tupelo on U.S. Highway 45 at Natchez Trace.

Owner: Natchez Trace Parkway.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 400 ft, cased to 20 ft.

DATUM.--Land-surface datum is about 325 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.50 ft above land-surface datum.

PERIOD OF RECORD.--April 1958 to December 1968, October 1975 to August 1984 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 65.32 ft below land-surface datum, June 17, 1958; lowest measured, 157.18 ft below land-surface datum, Aug. 15, 1984.

341536088421001. Local number, H042.

LOCATION.--Lat 34°15'36", long 88°42'10", Hydrologic Unit 03160102, SE¼NE¼ sec.31, T.9 S., R.6 E., 0.2 mi northeast of center of Tupelo at Spring Street and Sherwood at waterworks.

Owner: City of Tupelo.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 16-10 in, depth 562 ft cased to 510 ft.

DATUM.--Land-surface datum is about 280 ft National Geodetic Vertical Datum of 1929. Measuring point: Air vent in east side of pump base, 3.00 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--August 1966, October 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 164.00 ft below land-surface datum, Aug. 16, 1966; lowest measured, 260.18 ft below land-surface datum, May 17, 1979.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|
| DEC 12 | 213.03      | APR 23 | 206.21      |

341235088431601. Local number, K029.

LOCATION.--Lat 34°12'35", long 88°43'16", Hydrologic Unit 03160102, SE¼SE¼ sec.13, T.10 S., R.5 E., 3.5 mi south of center of Tupelo on U.S. Highway 45 at Barber Milk Company.

Owner: Barber Milk Company.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in, depth reported 491 ft, cased to 451 ft.

DATUM.--Land-surface datum is about 345 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 0.80 ft above land-surface datum.

REMARKS.--Water levels effected by nearby pumping.

PERIOD OF RECORD.--January 1967 to October 1967, September 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 177.2 ft below land-surface datum, Mar. 22, 1967; lowest measured, 299.98 ft below land-surface datum, June 6, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG | SEP    |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|--------|
| 5   | 287.74 | 281.37 | 275.16 | 274.35 | 276.85 | ---    | 276.80 | 291.26 | 298.92 | 293.04 | --- | ---    |
| 10  | 287.78 | 276.87 | 275.61 | 276.84 | 276.85 | ---    | 276.74 | 292.40 | ---    | 293.88 | --- | ---    |
| 15  | 281.90 | 276.23 | 275.87 | 274.44 | 286.30 | ---    | 276.09 | 291.94 | 292.27 | 295.55 | --- | ---    |
| 20  | 279.82 | 275.61 | 275.83 | 274.76 | 287.30 | ---    | 277.55 | 291.26 | 292.52 | 296.20 | --- | ---    |
| 25  | 281.12 | 275.11 | 274.67 | 276.84 | 285.82 | 277.11 | 279.29 | 295.80 | 292.03 | ---    | --- | ---    |
| EOM | 281.37 | 275.17 | 274.66 | 276.84 | 287.11 | 276.78 | 285.27 | 296.07 | 293.13 | ---    | --- | 240.93 |

WTR YR 1985 MEAN 282.34 HIGH 239.87 SEP 29 LOW 299.98 JUN 6

340522088371701. Local number, 0014.

LOCATION.--Lat 34°05'25", long 88°37'17", Hydrologic Unit 03160102, SW¼SE¼ sec.25, T.11 S., R.6 E., 0.1 mi east of center of Nettleton on Main Street at waterworks.

Owner: Town of Nettleton.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in, depth 612 ft, cased to 587 ft.

DATUM.--Land-surface datum is about 260 ft National Geodetic Vertical Datum of 1929. Measuring point: Hole in well base, 0.70 ft above land-surface datum.

PERIOD OF RECORD.--July 1940, September 1962 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.40 ft below land-surface datum, July 15, 1940; lowest measured, 70.28 ft below land-surface datum, Feb. 8, 1984.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|
| NOV 28 | 62.74       | APR 23 | 61.70       |

## GROUND-WATER LEVELS

## LEE COUNTY--Continued

330523088371701. Local number, 0015.

LOCATION.--Lat 34°05'23", long 88°37'17", Hydrologic Unit 03160102, SW¼SE¼ sec.25, T.11 S., R.6 E., 0.1 mi east of center of Nettleton on Main Street at waterworks.

Owner: Town of Nettleton.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 8 in, depth 282 ft.

DATUM.--Land-surface datum is about 266 ft National Geodetic Vertical Datum of 1929. Measuring point: Air vent in west side of pump base, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--September 1956, March 1968, October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20 ft below land-surface datum, September 1956; lowest measured, 88.92 ft below land-surface datum, Nov. 17, 1982.

Note: No measurement made in water year 1985.

## LEFLORE COUNTY

333823090205101. Local number, D160.

LOCATION.--Lat 33°38'23", long 90°20'51", Hydrologic Unit 08030207, NW¼SW¼ sec.31, T.21 N., R.1 W., 0.1 mi east of center of Schlater on south side of State Highway 442.

Owner: Mrs. D. B. Jameson.

AQUIFER.--Meridian Sand Member of Tallahatta Formation of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 2 in, depth 816 ft, cased to 816 ft.

DATUM.--Land-surface datum is 132.05 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 1-in pipe, 2.30 ft above land-surface datum.

PERIOD OF RECORD.--September 1919, September 1938 to October 1968, October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 30.0 ft above land-surface datum, 1919; lowest measured, 10.98 ft below land-surface datum, Mar. 29, 1984.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| MAR 27 | 6.12           |

333437090262601. Local number, F053.

LOCATION.--Lat 33°34'37", long 90°26'26", Hydrologic Unit 08030207, NW¼NW¼ sec.29, T.20 N., R.2 W., 6 mi southwest of Schlater.

Owner: William Tackett.

AQUIFER.--Mississippi River Valley alluvium of Pleistocene and Holocene age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 16 in, depth 100 ft.

DATUM.--Land-surface datum is about 120 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor 1.60 ft above land-surface datum.

REMARKS.--Water levels affected by seasonal pumping. Recorder pulled March 1982.

PERIOD OF RECORD.--March 1978, May 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18 ft below land-surface datum, March 24, 1978; lowest measured, 39.66 ft below land-surface datum, Apr. 20, 1982.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| MAR 27 | 34.26          |

333315090151801. Local number, G033.

LOCATION.--Lat 33°33'15", long 90°15'18", Hydrologic Unit 08030207, NE¼SW¼ sec.36, T.20 N., R.1 W., 2.5 mi northwest of Greenwood along U.S. Highway 49.

Owner: Unknown.

AQUIFER.--Mississippi River Valley alluvium of Pleistocene Holocene age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 10 in, depth 110 ft.

DATUM.--Land-surface datum is about 136 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--September 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.11 ft below land-surface datum, Mar. 29, 1984; lowest water level measured 20.68 ft below land-surface datum, Sept. 14, 1982

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| OCT 10 | 17.61          | DEC 13 | 16.63          | MAR 27 | 16.10          | JUN 18 | 19.54          |

## LEFLORE COUNTY--Continued

333159090113401. Local number, L079.

LOCATION.--Lat 33°31'59", long 90°11'34", Hydrologic Unit 08030205, SW¼SE¼ sec.4, T.19 N., R.1 E., at elevated tank on Parkes Street near center of Greenwood.

Owner: City of Greenwood.

AQUIFER.--Meridian Sand Member of Tallahatta Formation of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 16 in, depth 800 ft.

DATUM.--Land-surface datum is about 128 ft National Geodetic Vertical Datum of 1929. Measuring point: End of 2-in nipple off casing, 2.2 ft above land-surface datum.

PERIOD OF RECORD.--April 1960, April 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.5 ft above land-surface datum, Apr. 28, 1960; lowest measured, 26.97 ft below land-surface datum, Apr. 16, 1982.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| MAR 27 | 22.69          |

333135090124402. Local number, L111.

LOCATION.--Lat 33°31'35", long 90°12'44", Hydrologic Unit 08030205, SE¼SE¼ sec.8, T.19 N., R.1 E., at Henderson Generating Plant west of U.S. Highway 82, Greenwood.

Owner: City of Greenwood.

AQUIFER.--Mississippi River Valley alluvium of Pleistocene and Holocene age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 10 in, depth 95 ft.

DATUM.--Land-surface datum is about 95 ft National Geodetic Vertical Datum of 1929. Measuring point: Base of recorder shelter, 2.50 ft above land-surface datum.

PERIOD OF RECORD.--April 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, '9.88 ft below land-surface datum, Sept. 15, 1984; lowest measured 35.96 ft below land-surface datum, Sept. 18, 1981.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| MAR 27 |                |

333050090112501. Local number, L150.

LOCATION.--Lat 33°30'50", long 90°11'25", Hydrologic Unit 08030205, NE¼NE¼ sec.16, T.19 N., R.1 E., at street department barn, Parkway Street and Johnson Street.

Owner: City of Greenwood.

AQUIFER.--Sparta Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 220 ft.

DATUM.--Land-surface datum is about 126 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.5 ft above land-surface datum.

PERIOD OF RECORD.--January 1964, April 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.80 ft below land-surface datum, May 3, 1984; lowest measured, 50 ft below land-surface datum, Jan. 22, 1964.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| OCT 11 | 14.64          | MAR 27 | 11.83          |

333100090105801. Local number, L152.

LOCATION.--Lat 33°31'00", long 90°10'58", Hydrologic Unit 08030206, NE¼NW¼ sec.15, T.19 N., R.1 E., 0.1 mi southwest of center of Greenwood at Cotton Street and Johnson Street.

Owner: City of Greenwood.

AQUIFER.--Sand of Tallahatta Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 660 ft, reported screened 620-640 ft.

DATUM.--Land-surface datum is 133.98 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 1/2-in pushing in top of well, 2.80 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--1938, March 1940 to February 1950, April 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.9 ft above land-surface datum, Aug. 5, 1944; lowest measured, 35.06 ft below land-surface datum, Apr. 15, 1981.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| OCT 11 | 16.42          | MAR 27 | 15.37          |

## GROUND-WATER LEVELS

## LINCOLN COUNTY

313731090370101. Local number, 8037.

LOCATION.--Lat 31°37'31", long 90°37'01", Hydrologic Unit 03180005, NE¼NE¼ sec.32, T.8 N., R.6 E., 10 mi west of Brookhaven.

Owner: Ronald Durr.

AQUIFER.--Sand of Citronelle Formation of Pliocene age.

WELL CHARACTERISTICS.--Drilled domestic artesian well, diameter 4 in, depth 152 ft.

DATUM.--Land-surface datum is about 434 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.70 ft above land-surface datum.

PERIOD OF RECORD.--April 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 54.50 ft below land-surface datum, May 24, 1980; lowest measured, 69.02 ft below land-surface datum, Nov. 26, 1982.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| DEC 28 | 68.25          | MAY 26 | 67.72          | JUL 21 | 68.02          |

313504090261401. Local number, H010.

LOCATION.--Lat 31°35'04", long 90°26'14", Hydrologic Unit 03180005, SW¼SE¼ sec.7, T.7 N., R.8 E., 0.5 mi north of center of Brookhaven at Second Street and Enterprise Street.

Owner: Brookhaven Creamery.

AQUIFER.--Sand of Citronelle Formation of Pliocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in, depth 165 ft, cased to 115 ft.

DATUM.--Land-surface datum is about 485 ft National Geodetic Vertical Datum of 1929. Measuring point: Air vent, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--1969, October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 60.54 ft below land-surface datum, Oct. 11, 1978; lowest measured, 75.33 ft below land-surface datum, Apr. 14, 1983.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL |
|-------|----------------|
| APR 9 | 62.01          |

## LOWNDES COUNTY

333845088275404. Local number, A014.

LOCATION.--Lat 33°38'45", long 88°27'54", Hydrologic Unit 03160101, NE¼SW¼ sec.19, T.16 S., R.18 W., 11 mi north-west of center of Columbus on west side of U.S. Highway 45 at Columbus Air Base.

Owner: Columbus Air Base.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in, depth 456 ft, screened 425-456 ft.

DATUM.--Land-surface datum is about 188 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.50 ft above land-surface datum.

PERIOD OF RECORD.--July 1973, 1975.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.16 ft below land-surface datum, Jan. 28, 1975; lowest measured, 28.86 ft below land-surface datum, Apr. 1, 1981.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| DEC 11 | 27.62          | APR 25 | 28.76          |

333805088291002. Local number A034. (USCE TTM 38)

LOCATION.--Lat 33°38'05", long 88°29'10", Hydrologic Unit 03160104, NW¼NW¼ sec.36, T.16 S., R.19 W., 10 mi north-west of Columbus.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in, depth 31 ft, cased to 21 ft.

DATUM.--Land-surface datum is about 182 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 4.9 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.71 ft below land-surface datum, Apr. 20, 1982; lowest measured 25.91 ft below land-surface datum, Sept. 15, 1983.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| 5   | 9.01 | 8.47 | ---  | 5.93 | 3.45 | 1.78 | 2.40 | 2.47 | 5.09 | 5.44 | 6.77 | 7.55 |
| 10  | 9.10 | 8.34 | 6.40 | 5.85 | 2.10 | 1.90 | 2.63 | 2.53 | 5.35 | 5.75 | 6.94 | 7.43 |
| 15  | 9.20 | 8.28 | 6.25 | 5.83 | 1.65 | 2.13 | 2.67 | 3.29 | 4.64 | 6.06 | 7.14 | 7.55 |
| 20  | 9.25 | 8.24 | 6.12 | 5.41 | 1.86 | 2.34 | 3.14 | 3.90 | 4.26 | 6.31 | 7.21 | 7.66 |
| 25  | 8.85 | 8.17 | 6.11 | 5.27 | 1.52 | 2.46 | 2.33 | 4.16 | 4.80 | 6.48 | 7.32 | 7.73 |
| EOM | 8.64 | ---  | 6.03 | 5.06 | 1.51 | 2.40 | 2.89 | 4.67 | 5.13 | 6.62 | 7.43 | 7.83 |

WTR YR 1985 MEAN 5.40 HIGH 1.33 FEB 26 LOW 9.25 OCT 19







## GROUND-WATER LEVELS

## LOWNDES COUNTY--Continued

332656088335801. Local number, K037.

LOCATION.--Lat 33°26'56", long 88°33'58", Hydrologic Unit 03160106, SW¼SW¼ sec.6, T.18 N., R.17 E., 1.5 mi east of Golden Triangle Regional Airport.

Owner: Golden Triangle Industrial Park.

AQUIFER.--Sand of Coker Formation of Tuscaloosa Group of Late Cretaceous Age.

WELL CHARACTERISTICS.--Drilled industrial well, diameter 12 in, depth 1,312 ft.

DATUM.--Land-surface datum is about 240 ft National Geodetic Vertical Datum of 1929. Measuring Point: Top of air-vent in pump base, 2.50 ft above land-surface datum.

PERIOD OF RECORD.--June 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 74.50 ft below land-surface datum, Dec. 2, 1982; lowest measured, 99.41 ft below land-surface datum, Apr. 25, 1985.

## WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| APR 25 | 99.41          |

332718088333903. Local number, K039.

LOCATION.--Lat 33°27'18", long 88°33'39", Hydrologic Unit 03160106, SW¼SW¼ sec.6, T.18 N., R.17 E., 1½ miles east of Golden Triangle Regional Airport.

Owner: Golden Triangle Industrial Park.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous Age.

WELL CHARACTERISTICS.--Drilled unused observation well, diameter 12 in, depth 329 ft.

DATUM.--Land-surface datum is about 240 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 12-in casing, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--December 1979, December 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 99.0 ft below land-surface datum, Dec. 26, 1979; lowest measured, 115.58 ft below land-surface datum, Apr. 26, 1984.

## WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| APR 25 | 105.66         |

332517088235601. Local number, L022.

LOCATION.--Lat 33°25'17", long 88°23'56", Hydrologic Unit 03160106, SE¼SE¼ sec.10, T.19 S., R.18 W., 5 mi southeast of center of Columbus near east bank of Tombigbee River.

Owner: Hooker Chemical Company.

AQUIFER.--Sand of Coker Formation of Tuscaloosa Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 1,190 ft.

DATUM.--Land-surface datum is about 178 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 1-in bushing (since Apr. 13, 1976), 1.80 ft above land-surface datum.

PERIOD OF RECORD.--May 1960 to October 1965, April 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 44.9 ft above land-surface datum, Apr. 12, 1961; lowest measured, 36.90 ft below land-surface datum, Apr. 25, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| NOV 26 | 35.95          | APR 25 | 36.90          |

332508088235409. Local number, L034.

LOCATION.--Lat 33°25'08", long 88°23'54", Hydrologic Unit 03160105, NW¼SE¼ sec.10, T.19 S., R.18 W., 5 mi south of center of Columbus near east bank of Tombigbee River.

Owner: Hooker Chemical Company.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in, depth 583 ft, reported screened 533-583 ft.

DATUM.--Land-surface datum is about 180 ft National Geodetic Vertical Datum of 1929. Measuring point: Air breather in pump base 2.50 ft above land-surface datum.

REMARKS.--Water level affected by nearby pumping.

PERIOD OF RECORD.--July 1958, October 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 44.45 ft below land-surface datum, Apr. 26, 1984; lowest measured, 108.80 ft below land-surface datum, May 12, 1981.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| APR 25 | 53.52          |

## GROUND-WATER LEVELS

279

## LOWNDES COUNTY--Continued

332142088380101. Local number, N029.

LOCATION.--Lat 33°21'42", long 88°38'01", Hydrologic Unit 03160106, SW¼SW¼ sec.4, T.17 N., R.16 E., 3 mi south of Artesia and east of U.S. Highway 45.

Owner: United Cement Company.

AQUIFER.--Sand of Tombigbee Member of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 570 ft, cased to 240 ft open hole.

DATUM.--Land-surface datum is about 280 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.5 ft above land-surface datum.

PERIOD OF RECORD.--October 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 127.80 ft below land-surface datum, Oct. 5, 1978; lowest measured, 145.26 ft below land-surface datum, Apr. 25, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| APR 25 | 145.26         |

## MADISON COUNTY

322413090101701. Local number, V013.

LOCATION.--Lat 32°24'13", long 90°10'17", Hydrologic Unit 03180002, NE¼SE¼ sec.35, T.7 N., R.1 E., 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 unused artesian well, diameter 8 in, depth 800 ft.

DATUM.--Land-surface datum is about 380 ft National Geodetic Vertical Datum of 1929. 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, 214.93 ft below land-surface datum, Sept. 25, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| 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 15 | 209.56         | DEC 27 | 209.08         | FEB 28 | 208.75         | APR 29 | 209.73         | JUN 20 | 210.96         | AUG 27 | 213.54         |
| NOV 15 | 209.47         | JAN 24 | 208.65         | MAR 20 | 209.03         | MAY 28 | 210.33         | JUL 22 | 213.14         | SEP 25 | 214.93         |

322627090062401. Local number, W005.

LOCATION.--Lat 32°26'27", long 90°06'24", Hydrologic Unit 03180002, NE¼NE¼ sec.20, T.7 N., R.2 E., 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 about 320 ft National Geodetic Vertical Datum of 1929. 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, 179.87 ft below land-surface datum, Mar. 20, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| OCT 15 | 174.41         | MAR 20 | 179.87         |

322517090054201. Local number, W066.

LOCATION.--Lat 32°25'17", long 90°05'42", Hydrologic Unit 03180002, SW¼SE¼ sec.22, T.7 N., R.2 E., 3.5 mi east of Ridgeland.

Owner: Pearl River Valley Water Supply District.

AQUIFER.--Sand of Cockfield Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled public supply artesian well, diameter 10 in, depth 608 ft.

DATUM.--Land-surface datum is about 308 ft National Geodetic Vertical Datum of 1929. Measuring point: Air vent at pump motor base, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--April 1974, August 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 118 ft below land-surface datum, Apr. 24, 1974; lowest measured, 162.14 ft below land-surface datum, Sept. 25, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| 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 30 | 149.20         | DEC 27 | 150.72         | FEB 28 | 149.96         | APR 29 | 151.89         | JUN 20 | 157.74         | AUG 27 | 158.28         |
| NOV 15 | 152.45         | JAN 24 | 149.60         | MAR 20 | 149.65         | MAY 28 | 152.74         | JUL 22 | 157.94         | SEP 25 | 162.14         |

## GROUND-WATER LEVELS

## MARSHALL COUNTY

344618089272801. Local number, P072.

LOCATION.--Lat 34°46'18", long 89°27'24", Hydrologic Unit 08030204, NW¼NW¼ sec.6, T.4 S., R.2 W., at Holly Springs on West Boundry Street.

Owner: Town of Holly Springs.

AQUIFER.--Sand of lower part of Wilcox Group of late Paleocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 718 ft.

DATUM.--Land-surface datum is about 510 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.50 ft above land-surface datum.

PERIOD OF RECORD.--October 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 127.42 ft below land-surface datum, Mar. 28, 1984; lowest measured, 129.7 ft below land-surface datum, Nov. 30, 1982.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| MAR 27 | 127.59         |

## MONROE COUNTY

335917088304401. Local number, C003.

LOCATION.--Lat 33°59'17", long 88°30'44", Hydrologic Unit 03160101, NE¼SE¼ sec.26, T.12 S., R.19 W., 0.3 mi north-west of center of Amory at 108th Street and 5th Avenue at waterworks.

Owner: Town of Amory.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth reported 360 ft.

DATUM.--Land-surface datum is about 240 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of pipe on well head, 2.00 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--October 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.84 ft below land-surface datum, Mar. 10, 1983; lowest measured, 31.97 ft below land-surface datum, Apr. 8, 1976.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| NOV 28 | 24.06          | APR 24 | 23.43          |

334958088323601. Local number L075. (USCE AB11)

LOCATION.--Lat 33°49'58" long 88°32'36". Hydrologic Unit 03160101. SE¼SE¼ sec.26. T.14 S., R.7 E., in Aberdeen.

Owner: U.S. Army, Corps of Engineer.

AQUIFER.--McShan Formation of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 224 ft, cased to 204 ft.

DATUM.--Land-Surface datum is about 200 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 3.2 ft above land-surface datum.

PERIOD OF RECORD.--February 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.52 ft below land-surface datum, May 11, 1977; lowest measured, 27.43 ft below land-surface datum, Aug. 25, 1979.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5   | 25.35 | 23.49 | 23.35 | 24.22 | 23.38 | 23.67 | 23.67 | 23.33 | 23.99 | 24.66 | 24.85 | 23.98 |
| 10  | 25.07 | 23.72 | 23.60 | 23.88 | 23.21 | 23.96 | 23.61 | 23.62 | 24.34 | 25.18 | 24.95 | 23.69 |
| 15  | 24.54 | 23.83 | 23.56 | 24.45 | 22.88 | 23.79 | 23.41 | 24.05 | 24.36 | 25.10 | 24.91 | 24.17 |
| 20  | 24.82 | 23.70 | 23.45 | 24.23 | 23.11 | 23.61 | 23.65 | 23.27 | 24.69 | 25.10 | 25.09 | 24.80 |
| 25  | 24.31 | 23.66 | 23.45 | 24.29 | 22.99 | 23.76 | 23.59 | 23.16 | 24.57 | 25.22 | 25.48 | 25.22 |
| EOM | 23.67 | 23.34 | 23.45 | 23.53 | 23.42 | 23.62 | 23.87 | 23.47 | 24.90 | 24.77 | 24.22 | 25.08 |

WTR YR 1985 MEAN 24.06 HIGH 22.83 FEB 13 LOW 25.49 JUL 11

334836088390201. Local number, 0003.

LOCATION.--Lat 33°48'36", long 88°39'02", Hydrologic Unit 03160101, NE¼NE¼ sec.3, T.15 S., R.6 E., 2 mi northeast of center of Prairie.

Owner: John Judsen.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in, depth 451 ft.

DATUM.--Land-surface datum is about 315 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of plate on well head, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--1942, October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 114 ft below land-surface datum, 1942; lowest measured, 193.74 ft below land-surface datum, Oct. 16, 1978.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| APR 24 | 189.60         |

## GROUND-WATER LEVELS

281

## MONROE COUNTY-Continued

334359088391601. Local number, 0016.

LOCATION.--Lat 33°43'59", long 88°39'16", Hydrologic Unit 031601104, SW¼NE¼ sec.34, T.15 S., R.6 E., at Muldon on State Highway 25.

Owner: Muldon Grain Elevator Company (Formerly M and O Railroad)

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 620 ft.

DATUM.--Land-surface datum is about 300 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.7 ft above land-surface datum.

PERIOD OF RECORD.--1901, October 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 60.00 ft below land-surface datum, 1901; lowest measured, 164.91 ft below land-surface datum, Apr. 24, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE | WATER<br>LEVEL |
|------|----------------|
|------|----------------|

|        |        |
|--------|--------|
| APR 24 | 164.91 |
|--------|--------|

334836088333301. Local number, P022.

LOCATION.--Lat 33°48'36", long 88°33'33", Hydrologic Unit 03160101, NW¼NW¼ sec.3, T.15 S., R.7 E., 1 mi southwest of center of Aberdeen on State Highway 25.

Owner: Conoco Chemicals (Formerly Monroe Mfg. Co.).

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 216 ft.

DATUM.--Land-surface datum is about 218 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 2.60 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--October 1962 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 35.87 ft below land-surface datum, Oct. 16, 1962; lowest measured, 112.30 ft below land-surface datum, Apr. 8, 1969.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE | WATER<br>LEVEL |
|------|----------------|
|------|----------------|

|        |       |
|--------|-------|
| APR 24 | 86.47 |
|--------|-------|

334147088261501. Local number, Q018.

LOCATION.--Lat 33°41'47", long 88°26'15", Hydrologic Unit 03160103, SE¼SE¼ sec.5, T.16 S., R.18 W., 3 mi south of center of Hamilton on east side of U.S. Highway 45E.

Owner: T. G. Owen.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in, depth 390 ft.

DATUM.--Land-surface datum is about 216 ft National Geodetic Vertical Datum of 1929. Measuring point: 1/2-in plug in top of casing, 1.20 ft above land-surface datum.

PERIOD OF RECORD.--May 1964, July 1973, May 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26 ft below land-surface datum, May 1964; lowest measured, 70.77 ft below land-surface datum, Apr. 24, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE | WATER<br>LEVEL |
|------|----------------|
|------|----------------|

|        |       |
|--------|-------|
| APR 24 | 70.77 |
|--------|-------|

## MONTGOMERY COUNTY

332916089432002. Local number, F002.

LOCATION.--Lat 33°29'16", long 89°43'20", Hydrologic Unit 08060201, NW¼NE¼ sec.25, T.19 N., R.5 E., 0.5 mi northeast of center of Winona at waterworks.

Owner: Town of Winona.

AQUIFER.--Meridian Sand Member of Tallahatta Formation of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in, depth 308 ft, screened 248-308 ft.

DATUM.--Land-surface datum is 373.14 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 1.70 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--September 1939, February 1958 to June 1972, October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 94.70 ft below land-surface datum, Apr. 19, 1959; lowest measured, 122.47 ft below land-surface datum, Oct. 11, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE | WATER<br>LEVEL | DATE | WATER<br>LEVEL |
|------|----------------|------|----------------|
|------|----------------|------|----------------|

|        |        |       |        |
|--------|--------|-------|--------|
| OCT 11 | 122.47 | APR 8 | 115.32 |
|--------|--------|-------|--------|



## GROUND-WATER LEVELS

## NEWTON COUNTY

322728089161201. Local number, E001.

LOCATION.--Lat 32°27'28", long 89°16'12", Hydrologic Unit 03180001, SW¼SW¼ sec.10, T.7 N., R.10 E., 0.8 mi east of Post Office at Conehatta.

Owner: U.S. Department of Interior, Conehatta Indian School.

AQUIFER.--Sparta Sand of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in, depth 351 ft.

DATUM.--Land-surface datum is about 515 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of concrete base 1.00 ft above land surface.

PERIOD OF RECORD.--January 1959, March 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 163 ft below land-surface datum, Jan. 15, 1959; lowest measured 170.70 ft below land-surface datum, Oct. 31, 1984.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE  | WATER<br>LEVEL |
|--------|----------------|-------|----------------|
| OCT 31 | 170.70         | APR 4 | 169.55         |

322722089162002. Local number, E023.

LOCATION.--Lat 32°27'22", long 89°16'20", Hydrologic Unit 031800001, NW¼NW¼ sec.15, T.7 N., R.10 E., 0.8 mi east of Post Office at Conehatta.

Owner: Conehatta Indian School.

AQUIFER.--Meridian Sand Member of Tallahatta Formation of middle Eocene age.

WELL CHARACTERISTICS.--Drilled institutional artesian well, diameter 8 in, depth 639 ft.

DATUM.--Land-surface datum is about 525 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of concrete base at land-surface datum.

PERIOD OF RECORD.--December 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 221.80 ft below land-surface datum, Dec. 4, 1979; lowest measured, 234.57 ft below land-surface datum, Apr. 4, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE  | WATER<br>LEVEL |
|--------|----------------|-------|----------------|
| OCT 31 | 233.08         | APR 4 | 234.57         |

## NOXUBEE COUNTY

330645088332801. Local number, H115.

LOCATION.--Lat 33°06'50", long 88°34'10", Hydrologic Unit 03160108, NW¼NW¼ sec.33, T.15 N., R.17 E., 1 mi northwest of center of Macon on Pearl Street at railroad.

Owner: Town of Macon.

AQUIFER.--Sand and gravel of Coker Formation of the Tuscaloosa Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused well, diameter 10 in, depth 1,807 ft, cased to 1,767 ft.

DATUM.--Land-surface datum is about 185 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 1/4-in gate valve on discharge pipe, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--February 1955 to October 1956, October 1958 to April 1963, April 1965 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 33.2 ft above land-surface datum, Feb. 3, 1955; lowest measured, 12.40 ft below land-surface datum, Apr. 25, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| NOV 28 | 11.65          | APR 25 | 12.40          |

## OKTIBBEHA COUNTY

332710088471701. Local number, G102.

LOCATION.--Lat 33°27'10", long 88°47'17", Hydrologic Unit 03160104, NE¼SW¼ sec.1, T.18 N., R.14 E., 0.2 mi east of center of State College at Walker Engineering Building.

Owner: Mississippi State University.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 1,008 ft, cased to 968 ft.

DATUM.--Land-surface datum is 380.95 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.33 ft above land-surface datum.

PERIOD OF RECORD.--June 1940 to July 1948, January 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 176.14 ft below land-surface datum, Apr. 3, 1941; lowest measured, 229.13 ft below land-surface datum, Apr. 24, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| APR 24 | 229.13         |



## PANOLA COUNTY

342332090060001. Local number, K012.

LOCATION.--Lat 34°23'20", long 90°05'57", Hydrologic Unit 08030202, NW¼NE¼ sec.13, T.8 S., R.9 W., 10 mi northwest of center of Batesville.

Owner: Hall Farm.

AQUIFER.--Mississippi River Valley alluvium of Pleistocene and Holocene age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 4 in, depth 28 ft.

DATUM.--Land-surface datum is about 181 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 1.20 ft above land-surface datum.

PERIOD OF RECORD.--May 1962, June 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.08 ft below land-surface datum, Feb. 3, 1985; lowest measured, 14.58 ft below land-surface datum, Oct. 1, 1983.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY | OCT   | NOV | DEC   | JAN   | FEB | MAR   | APR   | MAY | JUN   | JUL   | AUG   | SEP   |
|-----|-------|-----|-------|-------|-----|-------|-------|-----|-------|-------|-------|-------|
| 5   | 14.53 | --- | ---   | 10.42 | --- | ---   | 11.45 |     | ---   | 12.60 | 13.62 | 13.56 |
| 10  | 13.99 | --- | ---   | 10.38 | --- | ---   | 11.54 |     | ---   | 12.98 | 13.56 | 13.67 |
| 15  | 13.39 | --- | 10.55 | 10.29 | --- | ---   | 11.55 |     | ---   | 13.19 | 13.52 | 13.75 |
| 20  | 13.06 | --- | 10.59 | 10.21 | --- | ---   | 11.70 |     | 12.41 | 13.45 | 13.51 | 13.85 |
| 25  | 12.60 | --- | 10.59 | 10.22 | --- | ---   | 11.62 |     | 12.26 | 13.63 | 13.38 | 13.97 |
| EOM | 12.32 | --- | 10.50 | 10.10 | --- | 11.41 | ---   |     | 12.35 | 13.63 | 13.57 | 14.02 |

WTR YR 1985 MEAN 12.38 HIGH 10.08 FEB 3 LOW 14.53 OCT 5

## PERRY COUNTY

311056088551201. Local number, J015.

LOCATION.--Lat 31°10'56", long 88°55'12", Hydrologic Unit 03170005, SE¼NW¼ sec.32, T.3 N., R.9 W., Beaumont Landing on State Highway 15 north of Beaumont, south end of bridge, downstream side at park and landing.

Owner: Pat Harrison Waterway.

AQUIFER.--Sand of Hattiesburg Formation of Miocene age.

WELL CHARACTERISTICS.--Drilled public-supply well, diameter 2 in, depth 576 ft.

DATUM.--Land-surface datum is about 90 ft National Geodetic Vertical Datum of 1929. Measuring Point: End of 2-in pipe, 200 ft above land-surface datum.

PERIOD OF RECORD.--April 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 37.00 ft above land-surface datum, May 9, 1984; lowest water-level measured 24.75 ft above land-surface datum, Apr. 22, 1983.

## WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL |
|--------|-------------|
| APR 15 | 34.5        |

310956088552101. Local number, M011.

LOCATION.--Lat 31°09'56", long 88°55'21", Hydrologic Unit 03170005, SW¼SW¼ sec.5, T.2 N., R.9 W., near center of Beaumont on third street.

Owner: Town of Beaumont.

AQUIFER.--Sand of Hattiesburg Formation of Miocene age.

WELL CHARACTERISTICS.--Drilled public-supply (standby) well, diameter 11 in, depth 666 ft, reported screened 626-666 ft.

DATUM.--Land-surface datum is about 95 ft National Geodetic Vertical Datum of 1929. Measuring point: Faucet near pump base, 2.50 ft above land-surface datum.

PERIOD OF RECORD.--August 1965, January 1976, June 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 35 ft above land-surface datum, Aug. 1, 1965; lowest measured, 22.9 ft above land-surface datum, May 9, 1984.

## WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL |
|--------|-------------|
| APR 15 | 23.9        |

## PIKE COUNTY

310833090272801. Local Number, G002.

LOCATION.--Lat 31°08'33", long 90°27'28", Hydrologic Unit 08070205, NW¼NW¼ sec.13, T.2 N., R.7 E., 0.1 mi west of center of Magnolia and west of City Hall.

Owner: Town of Magnolia.

AQUIFER.--Sand of Pascagoula Formation of late Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in, depth 432 ft.

DATUM.--Land-surface datum is about 300 ft National Geodetic Vertical Datum of 1929. Measuring point: Hole in east side of pump base, 0.50 ft above land-surface datum.

PERIOD OF RECORD.--1967, February 1970, October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.00 ft below land-surface datum, 1967; lowest measured, 18.45 ft below land-surface datum, Feb. 17, 1970.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER LEVEL |
|-------|-------------|
| APR 9 | 8.21        |

## GROUND-WATER LEVELS

## PRENTISS COUNTY

343921088334101. Local number, F002.

LOCATION.--Lat 34°39'21", long 88°33'41", Hydrologic Unit 08010207, SE¼SE¼ sec.9, T.5 S., R.7 E., 0.1 mi north of center of Booneville at Court Street and Main Street.

Owner: Town of Booneville.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 16 in, depth 491 ft, cased to 406 ft.

DATUM.--Land-surface datum is about 525 ft National Geodetic Vertical Datum of 1929. Measuring point: Air vent on south side of pump base, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--July 1950, May 1972, October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 183 ft below land-surface datum, July 1950; lowest measured, 235.59 ft below land-surface datum, Apr. 23, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE | WATER LEVEL |
|------|-------------|
|------|-------------|

|        |        |
|--------|--------|
| APR 23 | 235.59 |
|--------|--------|

344045088325501. Local number F061.

LOCATION.--Lat 34°40'45", long 88°32'55", Hydrologic Unit 08010207, SW¼NE¼ sec.3, T.5 S., R.7 E., northeast of center of Booneville at Booneville-Prentiss County industrial park.

Owner: Town of Booneville.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 503 ft.

DATUM.--Land-Surface datum is about 517 ft NGVD of 1929. Measuring point: Top of recorder house floor, 3.00 ft above land surface datum.

REMARKS: Water level affected by nearby pumping.

PERIOD OF RECORD.--October 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## LOWEST LEVELS

| DAY | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL | AUG | SEP |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|-----|-----|
| 5   | ---    | 195.94 | 195.40 | 195.32 | ---    | 196.30 | 196.11 | 196.10 | 196.61 |     |     |     |
| 10  | ---    | 195.48 | 195.38 | 195.45 | ---    | 196.05 | 196.43 | 196.20 | ---    |     |     |     |
| 15  | 195.51 | 195.56 | 195.53 | 195.55 | ---    | 196.29 | 196.30 | 196.13 | ---    |     |     |     |
| 20  | 195.63 | 196.18 | 195.47 | 195.72 | 196.02 | 196.34 | 196.40 | 196.20 | ---    |     |     |     |
| 25  | 195.65 | 195.44 | 195.39 | 195.58 | 195.93 | 196.29 | 196.04 | 196.31 | ---    |     |     |     |
| EOM | 195.74 | 195.32 | 195.32 | 195.81 | 196.10 | 196.22 | 196.09 | 196.33 | ---    |     |     |     |

WTR YR 1985 MEAN 195.86 HIGH 194.82 FEB 2 LOW 196.69 APR 19

343142088384401. Local number, J084.

LOCATION.--Lat 34°31'42", long 88°38'44", Hydrologic Unit 03160101, SE¼NE¼ sec.26, T.6 S., R.6 E., 1.7 mi north of center of Baldwin on west side of U.S. Highway 45.

Owner: Baldwin Implement Company.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled domestic artesian well, diameter 4 in, depth 440 ft, cased to 158 ft.

DATUM.--Land-surface datum is about 345 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of air vent in pump base, 1.50 ft above land-surface datum.

PERIOD OF RECORD.--July 1973, October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.50 ft below land-surface datum, July 25, 1973; lowest measured, 56.51 ft below land-surface datum, Apr. 23, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE | WATER LEVEL |
|------|-------------|
|------|-------------|

|        |       |
|--------|-------|
| APR 23 | 56.51 |
|--------|-------|

## RANKIN COUNTY

322249089582101. Local number, G043.

LOCATION.--Lat 32°22'49", long 89°58'21", Hydrologic Unit 03180002, SW¼NW¼ sec.10, T.6 N., R.3 E., 7.4 mi north of Brandon on Spillway road.

Owner: Pearl River Valley Water Supply District.

AQUIFER.--Sparta Sand of middle Eocene age.

WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 16 in, depth 1,190 ft.

DATUM.--Land-surface datum is about 320 ft National Geodetic Vertical Datum of 1929. 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, 170.88 ft below land-surface datum, Jan. 27, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 30 | 165.92      | DEC 27 | 167.73      | FEB 28 | 165.49      | APR 29 | 165.78      | JUL 22 | 168.60      | SEP 25 | 167.76      |
| NOV 15 | 167.37      | JAN 24 | 155.77      | MAR 20 | 165.42      | JUN 20 | 168.27      | AUG 27 | 167.90      |        |             |

## GROUND-WATER LEVELS

285

## RANKIN COUNTY--Continued

321846089475101. Local number, J110.

LOCATION.--Lat 32°18'46", long 89°47'51", Hydrologic Unit 03180002, SW¼SW¼ sec.33, T.6 N., R.5 E., 0.2 mi east of center of Pelahatchie at Fire Station.

Owner: Town of Pelahatchie.

AQUIFER.--Sand of Cockfield Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in, depth 563 ft, screened 503-563 ft.

DATUM.--Land-surface datum is about 365 ft National Geodetic Vertical Datum of 1929. Measuring point: Hole in cover plate, at land-surface datum.

PERIOD OF RECORD.--July 1955 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 101.62 ft below land-surface datum, Apr. 9, 1956; lowest measured, 131.96 ft below land-surface datum, Jan. 22, 1970.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE  | WATER LEVEL |
|--------|-------------|-------|-------------|
| OCT 31 | 125.87      | APR 4 | 126.04      |

322148089283201. Local number, L001.

LOCATION.--Lat 32°21'48", long 89°28'32", Hydrologic Unit 03180001, SE¼NE¼ sec.16, T.6 N., R.8 E., 0.1 mi west of center of Forest at Wade Street and Walker Street.

Owner: Town of Forest.

AQUIFER.--Sand of Cockfield Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in, depth 360 ft, cased to 280 ft.

DATUM.--Land-surface datum is about 480 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--August 1957 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 95.39 ft below land-surface datum, Apr. 11, 1984; lowest measured, 145.4 ft below land-surface datum, Apr. 28, 1967.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE  | WATER LEVEL |
|--------|-------------|-------|-------------|
| OCT 15 | 97.70       | APR 4 | 96.06       |

## SCOTT COUNTY

322202089290502. Local number, L013.

LOCATION.--Lat 32°22'02", long 89°29'05", Hydrologic Unit 03180001, SE¼NE¼ sec.16, T.6 N., R.8 E., 0.7 mi west of center of Forrest at George Street and Cleveland Street.

Owner: Town of Forest.

AQUIFER.--Sparta Sand of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in, depth 721 ft.

DATUM.--Land-surface datum is about 480 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.5 ft above land-surface datum.

PERIOD OF RECORD.--November 1964, November 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 193 ft below land-surface datum, November 1964; lowest measured, 221.28 ft below land-surface datum, Apr. 4, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE  | WATER LEVEL |
|--------|-------------|-------|-------------|
| OCT 15 | 221.10      | APR 4 | 221.28      |

322147089305801. Local number, L039.

LOCATION.--Lat 32°21'47", long 89°30'58", Hydrologic Unit 03180001, SW¼NE¼ sec.18, T.6 N., R.8 E., 2.2 mi west of Forest on U.S. Highway 80.

Owner: Manville Forest Products.

AQUIFER.--Meridian Sand Member of Tallahatchie Formation of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10-6 in, depth 1,310 ft.

DATUM.--Land-surface datum is about 475 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 3/4-in air vent, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--November 1973, November 1979, April 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 184 ft below land-surface datum, Nov. 15, 1973; lowest measured, 236.59 ft below land-surface datum, Apr. 11, 1984.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE  | WATER LEVEL |
|--------|-------------|-------|-------------|
| OCT 31 | 225.19      | APR 4 | 235.78      |

## GROUND-WATER LEVELS

## SHARKEY COUNTY

325839090501601. Local number, C043.

LOCATION.--Lat 32°58'39", long 90°50'16", Hydrologic Unit 08030209, sec.17, T.13 N., R.6 W., 0.6 mi northwest of center of Anguilla on west side of Deer Creek.

Owner: M. C. Ewing.

AQUIFER.--Meridian Sand Member of Tallahatta Formation of middle Eocene age.

WELL CHARACTERISTICS.--Drilled domestic artesian well, diameter 4 in, depth 1,830 ft, cased to 1,790 ft.

DATUM.--Land-surface datum is about 106 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of tee at well head, 2.00 ft or top of faucet at road, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--October 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 100.0 ft above land-surface datum, July 23, 1973; lowest measured, 59.0 ft above land-surface datum, Oct. 15, 1983

## WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| MAR 25 | 60.0           |

324749090553101. Local number, G044.

LOCATION.--Lat 32°47'49", long 90°55'31", Hydrologic Unit 08030209, NE¼NW¼ sec.16, T.11 N., R.7 W., 0.3 mi south of center of Cary on east side of U.S. Highway 61.

Owner: Cary High School.

AQUIFER.--Sparta Sand of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 1,149 ft.

DATUM.--Land-surface datum is about 102 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--February 1939, September 1960, October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.9 ft above land-surface datum, Feb. 10, 1939; lowest measured, 25.53 ft below land-surface datum, Mar. 25, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| MAR 25 | 25.53          |

## SIMPSON COUNTY

315256089392401. Local number, L001.

LOCATION.--Lat 31°52'56", long 89°39'24", Hydrologic Unit 03170004, SE¼NW¼ sec.35, T.1 N., R.6 E., 4 mi east of center of Magee off State Highway 28.

Owner: Okatoma Water Association.

AQUIFER.--Sparta Sand of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in, depth 1,620 ft.

DATUM.--Land-surface datum is about 530 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of concrete base, 2.5 ft above land-surface datum.

PERIOD OF RECORD.--January 1969, September 1971, July 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 302 ft below land-surface datum, Jan. 31, 1969; lowest measured, 341.48 ft below land-surface datum, Apr. 2, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE  | WATER<br>LEVEL |
|-------|----------------|--------|----------------|-------|----------------|
| OCT 1 | 338.84         | OCT 23 | 332.60         | APR 2 | 341.48         |

315258089392201. Local number, L013.

LOCATION.--Lat 31°52'58", long 89°39'22", Hydrologic Unit 03170004, SE¼NW¼ sec.35, T.1 N., R.6 E., 4 mi east of center of Magee off State Highway 28.

Owner: Okatoma Water Association.

AQUIFER.--Sand of Citronelle Formation of Pliocene age.

WELL CHARACTERISTICS.--Drilled public-supply water-table well, diameter 18 in, depth 200 ft, reported screened 150 to 200 ft.

DATUM.--Land-surface datum is about 515 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of breather, 2.50 ft above land-surface datum.

PERIOD OF RECORD.--May 1972, May 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 98.75 ft below land-surface datum, Apr. 13, 1983; lowest measured, 110.0 ft below land-surface datum, May 1972.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE  | WATER<br>LEVEL |
|--------|----------------|-------|----------------|
| OCT 23 | 106.19         | APR 2 | 106.13         |



## SUNFLOWER COUNTY

334017090301801. Local number, H018.

LOCATION.--Lat 33°40'17", long 90°30'18", Hydrologic Unit 08030207, SE¼NE¼ sec.21, T.21 N., R.3 W., 1.5 mi northeast of center of Doddsville on county road.

Owner: B. D. McCarty.

AQUIFER.--Sand of Tallahatta Formation of middle Eocene age.

WELL CHARACTERISTICS.--Drilled domestic artesian well, diameter 4 in, depth 1,370 ft.

DATUM.--Land-surface datum is about 125 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of faucet at well, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--April 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.0 ft above land-surface datum, Apr. 14, 1971; lowest measured, 3.82 ft below land-surface datum, Mar. 25, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| MAR 25 | 3.82           |

332826090441601. Local number M038.

LOCATION.--Lat 33°28'26", long 90°44'16", Hydrologic Unit 08030207, NE¼NW¼ sec.29, T.19 N., R.5 W., 2.7 mi north of U.S. Highway 82 near Indian Bayou.

Owner: James Robertson.

AQUIFER.--Mississippi River Valley alluvium of Pleistocene and Holocene age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 16 in, depth 110 ft.

DATUM.--Land-surface datum is about 123 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house, 0.50 ft above land-surface datum, Sept. 20, 1983.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.88 ft below land-surface datum, Apr. 24, 1981; lowest measured, 25.39 ft below land-surface datum, July 17, 1984

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| OCT 11 | 23.70          | DEC 13 | 22.32          | MAR 25 | 21.37          | JUN 18 | 23.54          |

332505090293001. Local number, R021.

LOCATION.--Lat 33°25'05", long 90°29'30", Hydrologic Unit 08030207, NW¼SW¼ sec.22, T.18 N., R.3 W., 2.5 mi southeast of center of Moorehead on county road.

Owner: Edgar Hobbs.

AQUIFER.--Meridian Sand Member of Tallahatta Formation of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 3 in, depth 1,547 ft.

DATUM.--Land-surface datum is about 110 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of faucet at well, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--November 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 41.5 ft above land-surface datum, Feb. 10, 1970; lowest measured, 6.5 ft above land-surface datum, Apr. 21, 1983.

## WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| MAR 25 | 13.0           |

## TATE COUNTY

343723089592801. Local number, F022.

LOCATION.--Lat 34°37'23", long 89°59'28", Hydrologic Unit 08030204, SE¼SE¼ sec.25, T.5 S., R.8 W., 1.2 mi southeast of center of Senatobia at stand tank on Browns Ferry Road.

Owner: Town of Senatobia.

AQUIFER.--Sand of lower part of Wilcox Group of late Paleocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 5 in, depth 1,085 ft, cased to 1,065 ft.

DATUM.--Land-surface datum is about 340 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.30 ft above land-surface datum.

PERIOD OF RECORD.--October 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 135.18 ft below land-surface datum, May 23, 1973; lowest measured, 155.32 ft below land-surface datum, May 11, 1982.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| MAR 26 | 151.22         |



## GROUND-WATER LEVELS

## TATE COUNTY--Continued

343811089580401. Local number, G037 (formerly G37a).

LOCATION.--Lat 34°38'11", long 89°58'04", Hydrologic Unit 08030204, NW¼SW¼ sec.20, T.5 S., R.7 W., 1 mi north of center of Senatobia at Chromcraft Plant.

Owner: Town of Senatobia.

AQUIFER.--Sand of lower part of Wilcox Group of late Paleocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 1,180 ft, cased to 1,160 ft.

DATUM.--Land-surface datum is about 250 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing 2.20 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--October 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 52.84 ft below land-surface datum, June 6, 1973; lowest measured, 101.5 ft below land-surface datum, Dec. 1, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| MAR 26 | 84.09          |

## TIPPAH COUNTY

345658088534101. Local number, 8008.

LOCATION.--Lat 34°56'58", long 88°53'41", Hydrologic Unit 08010207, SE¼ sec.32, T.1 S., R.4 E., 0.2 mi north of center of Walnut at swimming pool and elevated tank.

Owner: Town of Walnut.

AQUIFER.--Sand of McNairy Sand Member Sand of Ripley Formation of Selma Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 147 ft, cased to 137 ft.

DATUM.--Land-surface datum is about 470 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of concrete base, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--June 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 61.70 ft below land-surface datum, Feb. 24, 1975; lowest measured, 67.90 ft below land-surface datum, Nov. 30, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| MAR 28 | 63.67          |

## TISHOMINGO COUNTY

345802088142701. Local number, 8018.

LOCATION.--Lat 34°58'02", long 88°14'27", Hydrologic Unit 06030005, SW¼NE¼ sec.28, T.1 S., R.10 E., 2.8 mi north of center of Cross Roads on west side of State Highway 25.

Owner: Yellow Creek Port.

AQUIFER.--Rocks of Paleozoic age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 378 ft, cased to 147 ft.

DATUM.--Land-surface datum is about 560 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.50 ft above land-surface datum.

PERIOD OF RECORD.--October 1973, October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 98.31 ft below land-surface datum, Mar. 11, 1980; lowest measured, 104.31 ft below land-surface datum, Apr. 23, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| APR 23 | 104.31         |

345603088170601. Local number, 8019.

LOCATION.--Lat 34°56'03", long 88°17'06", Hydrologic Unit 06030005, NE¼SW¼ sec.6, T.2 S., R.10 E., 2 mi northwest of center of Cross Roads.

Owner: Yellow Creek Port.

AQUIFER.--Rocks of Paleozoic age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 266 ft, cased to 90 ft.

DATUM.--Land-surface datum is about 467 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--September 1973, October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.55 ft below land-surface datum, Apr. 24, 1984; lowest measured, 15.0 ft below land-surface datum, Sept. 29, 1973.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| APR 23 | 11.38          |

## GROUND-WATER LEVELS

289

## TISHOMINGO COUNTY--Continued

345703088145601. Local number, 8021.

LOCATION.--Lat 34°57'03", long 88°14'56", Hydrologic Unit 06030005, SW¼NE¼ sec.33, T.1 S., R.10 E., 1.5 mi north of center of Cross Roads on State Highway 25.

Owner: Yellow Creek Port.

AQUIFER.--Rocks of Paleozoic age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 349 ft, cased to 76 ft.

DATUM.--Land-surface datum is about 455 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--October 1973, October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.07 ft above land-surface datum, Apr. 10, 1979; lowest measured, 8.48 ft below land-surface datum, Nov. 30, 1982.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| APR 23 | 3.01           |

344834088111601. Local number, F001.

LOCATION.--Lat 34°48'34", long 88°11'16", Hydrologic Unit 06030005, NW¼NW¼ sec.19, T.3 S., R.11 E., 0.1 mi east of center of Iuka.

Owner: H. M. Biggs.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in, depth 113 ft, cased to 105 ft.

DATUM.--Land-surface datum is about 545 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--1956, April 1958 to April 1984 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.2 ft below land-surface datum, Apr. 1, 1974; lowest measured, 65.1 ft below land-surface datum, Jan. 18, 1967.

343936088161901. Local number, J010.

LOCATION.--Lat 34°39'36", long 88°16'19", Hydrologic Unit 03160101, NW¼SE¼ sec.8, T.5 S., R.10 E., 0.2 mi south of center of Paden at Murphy Street and Lennon Avenue.

Owner: Irwin Schwabe Company.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in, depth 181 ft.

DATUM.--Land-surface datum is about 420 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 3/4-in nipple at well head (since Mar. 17, 1976), 2.80 ft, or top of cap 1.7 ft land-surface datum.

REMARKS.--Water level affected by nearby pumping.

PERIOD OF RECORD.--July 1971 to February 1972, March 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.20 ft above land-surface datum, Mar. 13, 1974; lowest measured, 2.77 ft below land-surface datum, Nov. 18, 1981.

## WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 29 | -4.25          | JAN 31 | -4.21          | APR 23 | -4.97          | AUG 21 | -5.26          |

344053088161202. Local number J013. (USCE 34A)

LOCATION.--Lat 34°40'53", long 88°16'12", Hydrologic Unit 03160101, NE¼NW¼ sec.5, T.5 S., R.10 E., 1.8 mi north of Paden.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 266 ft, cased to 256 ft.

DATUM.--Land-surface datum is about 560 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 1.0 ft above land-surface datum.

PERIOD OF RECORD.--September 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 82.17 ft below land-surface datum, Mar. 13, 1974; lowest recorded, 117.63 ft below land-surface datum, Aug. 5, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|
| 5   | 101.50 | 101.39 | 101.74 | 101.79 | 101.69 | 101.72 | 101.31 | 100.80 | 100.64 | 100.50 | 100.71 |     |
| 10  | 101.46 | 101.46 | 101.72 | 101.79 | 101.71 | 101.69 | 101.46 | 100.69 | 100.64 | 100.55 | 100.70 |     |
| 15  | 101.40 | 101.50 | 101.75 | 101.81 | 101.60 | 101.66 | 101.16 | 100.66 | 100.59 | 100.64 | ---    |     |
| 20  | 101.40 | 101.51 | 101.75 | 101.85 | 101.64 | 101.65 | 101.18 | 100.63 | 100.58 | 100.65 | ---    |     |
| 25  | 101.39 | 101.53 | 101.87 | 101.79 | 101.56 | 101.60 | 100.95 | 100.60 | 100.59 | 100.65 | ---    |     |
| EOM | 101.39 | 101.65 | 101.86 | 101.79 | 101.65 | 101.45 | 100.93 | 100.57 | 100.59 | 100.67 | ---    |     |

WTR YR 1985 MEAN 101.26 HIGH 100.50 JUL 5 LOW 101.88 JAN 12

## GROUND-WATER LEVELS

## TISHOMINGO COUNTY--Continued

344053088161203. Local number J014. (USCE 348)

LOCATION.--Lat 34°40'53", long 88°16'12", Hydrologic Unit 03160101, NE¼NW¼ sec.5, T.5 S., R.10 E., 1.8 mi north of Paden.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 134 ft, cased to 129 ft.

DATUM.--Land-Surface datum is about 560 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.65 ft above land-surface datum.

PERIOD OF RECORD.--September 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 69.67 ft below land-surface datum, May 23, 1974; lowest recorded, 77.81 ft below land-surface datum, Nov. 26, 1982.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DAY | LOWEST LEVELS |       |       |       |       |       |       |       |       |       |       |
|-----|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|     | OCT           | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | SEP   |
| 5   | 74.41         | 74.58 | 74.11 | 74.03 | 73.10 | 73.21 | 72.79 | 72.84 | 73.71 | 73.88 | 74.19 |
| 10  | 74.46         | 74.47 | 73.97 | 74.02 | 73.13 | 73.02 | 72.97 | 72.78 | 73.76 | 73.89 | 74.23 |
| 15  | 74.41         | 74.57 | 74.17 | 73.98 | 73.16 | 73.13 | 72.67 | 72.80 | 73.73 | 74.08 | 74.25 |
| 20  | 74.48         | 74.80 | 74.05 | 74.28 | 73.11 | 72.95 | 72.91 | 72.78 | 73.86 | 74.13 | 74.27 |
| 25  | 74.54         | 74.45 | 74.31 | 74.19 | 73.11 | 73.16 | 72.82 | 73.78 | 73.82 | 74.15 | 74.38 |
| EOM | 74.56         | 74.06 | 74.07 | 73.90 | 73.16 | 72.96 | 72.83 | 73.75 | 73.92 | 74.16 | 74.59 |

WTR YR 1985 MEAN 73.84 HIGH 72.66 MAY 17 LOW 74.80 NOV 20

## TUNICA COUNTY

344540090230801. Local number, D029.

LOCATION.--Lat 34°45'40", long 90°23'08", Hydrologic Unit 08030204, SW¼SE¼ sec.5, T.4 S., R.11 W., 5 mi north of center of Tunica.

Owner: Jack Day Perry.

AQUIFER.--Mississippi River Valley alluvium of Pleistocene and Holocene age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 16 in, depth 125 ft.

DATUM.--Land-surface datum is about 188 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 1.40 ft above land-surface datum.

REMARKS.--Water level affected by seasonal pumping.

PERIOD OF RECORD.--July 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.48 ft above land-surface datum, Sept. 15, 1981; lowest measured, 16.59 ft below land-surface datum, Jan. 22, 1982.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| MAR 26 | 7.66           |

## UNION COUNTY

343200089045901. Local number, 8006.

LOCATION.--Lat 34°32'00", long 89°04'59", Hydrologic Unit 08030201, SE¼NW¼ sec.27, T.6 S., R.2 E., 5 mi northwest of New Albany on north side of U.S. Highway 78.

Owner: Futorian Furniture Corp. (Frame plant).

AQUIFER.--Sand of Ripley Formation of Selma Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled industrial (fire protection) artesian well, diameter 6 in, depth 500 ft.

DATUM.--Land-surface datum is about 385 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing below pump base, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--1955, October 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25 ft below land-surface datum, 1955; lowest measured, 72.20 ft below land-surface datum, Nov. 18, 1982.

## WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| APR 22 | 68.45          |

343418088484901. Local number, E022.

LOCATION.--Lat 34°34'18", long 88°48'49", Hydrologic Unit 08010207, NW¼SE¼ sec.7, T.6 S., R.5 W., 6 mi of State Highway 30.

Owner: Keownville Water Association.

AQUIFER.--Coffee Sand of Selma Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 312 ft, cased to 696 ft.

DATUM.--Land-surface datum is about 680 ft National Geodetic Vertical Datum of 1929. Measuring point: Plug in top of casing, 1.00 ft above land-surface datum.

REMARKS.--Water levels effected by nearby pumping.

PERIOD OF RECORD.--July 1972. October 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 340 ft below land-surface datum, July 5, 1972; lowest measured, 451.50 ft below land-surface datum, May 16, 1979.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| APR 22 | 387.63         |

## GROUND-WATER LEVELS

291

## WARREN COUNTY

322310090530202. Local number, J004.

LOCATION.--Lat 32°23'10", long 90°53'02", Hydrologic Unit 08030208, SW¼SW¼ sec.2, T.16 N., R.3 E., 2.5 mi northwest of center of Vicksburg on north side of Industrial Road.

Owner: City of Vicksburg.

AQUIFER.--Mississippi River Valley alluvium of Pleistocene and Holocene age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 10 in, depth 170 ft, cased to 150 ft.

DATUM.--Land-surface datum is about 90 ft National Geodetic Vertical Datum of 1929. Measuring point: Bottom of recorder house floor, 17.26 ft above land-surface datum.

REMARKS.--Water level affected by nearby pumping.

PERIOD OF RECORD.--October 1965 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.60 ft below land-surface datum, Apr. 17, 1975; lowest measured, 53.98 ft below land-surface datum, Feb. 12, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB    | MAR   | APR   | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|
| 5           | ---   | 35.38 | 29.46 | 34.37 | 43.37  | 22.76 | 22.65 | 21.38  | 32.57 | 27.96 | 39.36 | 37.75 |
| 10          | ---   | 31.96 | 29.51 | 29.86 | 36.13  | 25.74 | 22.41 | 21.89  | 36.89 | 29.46 | 37.89 | 41.17 |
| 15          | 39.39 | 36.29 | 34.03 | 28.48 | 33.53  | 23.31 | 21.87 | 30.63  | 35.40 | 29.64 | 38.19 | 43.27 |
| 20          | 36.93 | 35.82 | 34.87 | 34.23 | 26.32  | 21.53 | 22.19 | 29.23  | 26.34 | 35.26 | 37.97 | 43.93 |
| 25          | 41.52 | 34.82 | 30.78 | 35.71 | 26.56  | 20.21 | 18.55 | 30.04  | 26.96 | 36.91 | 37.72 | 44.45 |
| EOM         | 36.53 | 31.30 | 28.53 | 36.82 | 25.56  | 20.43 | 20.13 | 31.07  | 27.20 | 37.86 | 37.55 | 44.36 |
| WTR YR 1985 | MEAN  | 31.98 | HIGH  | 18.40 | APR 24 | LOW   | 44.87 | SEP 27 |       |       |       |       |

## WASHINGTON COUNTY

332432091031501. Local number, D016.

LOCATION.--Lat 33°24'32", long 91°03'15", Hydrologic Unit 08030209, Irregular sec.4, T.18 N., R.8 W., 0.2 mi north-east of center of Greenville at Alexander Street and Illinois Central Railroad.

Owner: Itzig Company.

AQUIFER.--Sand of Cockfield Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 517 ft.

DATUM.--Land-surface datum is about 125 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--November 1960, October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 77.28 ft below land-surface datum, Apr. 26, 1983; lowest measured, 107.87 ft below land-surface datum, June 7, 1978.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL |
|--------|-------------|
| MAR 26 | 86.50       |

332228091045402. Local number, D033 (formerly D33b).

LOCATION.--Lat 33°22'28", long 91°04'54", Hydrologic Unit 08030209, Irregular sec.10, T.18 N., R.9 W., 4 mi south-west of center of Greenville in industrial park on Theobald Street.

Owner: U.S. Geological Survey.

AQUIFER.--Meridian Sand Member of Tallahatta Formation of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 1,994 ft, cased to 1,984 ft.

DATUM.--Land-surface datum is 125.07 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of valve on cap on well, 2.62 ft above land-surface datum.

PERIOD OF RECORD.--June 1969 to April 1972, June 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 51.8 ft above land-surface datum, Apr. 14, 1970; lowest measured, 30.0 ft above land-surface datum, Mar. 26, 1985.

## WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL |
|--------|-------------|
| MAR 26 | 30.0        |



## GROUND-WATER LEVELS

## WASHINGTON COUNTY--Continued

332242091030401. Local number, D176.

LOCATION.--Lat 33°22'42", long 91°03'04", Hydrologic Unit 08030207, NE¼ sec.33, T.18 N., R.5 W., 0.5 mi southwest of Bowman Blvd on State Highway 1.

Owner: Maclean Bowman.

AQUIFER.--Mississippi River Valley alluvium of Pleistocene and Holocene age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in, depth 70 ft.

DATUM.--Land-surface datum is about 123 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of 6-in casing, 1.50 ft above land-surface datum.

PERIOD OF RECORD.--May 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.75 ft below land-surface datum, June 5, 1983; lowest water level measured, 12.82 ft below land-surface datum, Nov. 30, 1983.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB    | MAR  | APR   | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|--------|------|-------|--------|-------|-------|-------|-------|
| 5           | 11.77 | 10.85 | 10.30 | 10.38 | 9.45   | 8.62 | 8.08  | 8.11   | 9.22  | 10.11 | 11.24 | 12.13 |
| 10          | 11.49 | 10.89 | ---   | 10.44 | 9.17   | 8.66 | 8.03  | 8.25   | 9.42  | 10.29 | 11.43 | 12.26 |
| 15          | 11.28 | 10.95 | 10.37 | 10.23 | 9.11   | 8.43 | 8.04  | 8.43   | 9.63  | 10.46 | 11.56 | 12.41 |
| 20          | 11.34 | 10.67 | 10.38 | 10.09 | 8.77   | ---  | 8.09  | 8.60   | 9.77  | 10.66 | 11.70 | 12.57 |
| 25          | 10.86 | 10.53 | 10.40 | 10.00 | 8.63   | ---  | 7.98  | 8.76   | 9.92  | 10.82 | 11.83 | 12.70 |
| EOM         | 10.85 | 10.42 | 10.46 | 9.77  | 8.65   | 8.09 | 7.99  | 8.99   | 10.08 | 11.07 | 12.01 | ---   |
| WTR YR 1985 | MEAN  | 10.08 | HIGH  | 7.96  | APR 14 | LOW  | 12.71 | SEP 26 |       |       |       |       |

332223091043301. Local number, D178.

LOCATION.--Lat 33°22'23", long 91°04'33", Hydrologic Unit 08030209, sec.10, T.18 N., R.9 W., 2.5 mi north of intersection of State Highway 1 and U.S. Highway 82 in Greenville.

Owner: City of Greenville.

AQUIFER.--Mississippi River Valley alluvium of Pleistocene and Holocene age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 4 in, depth 42 ft.

DATUM.--Land-surface datum is about 124 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 3.60 ft above land-surface datum.

PERIOD OF RECORD.--May 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.19 ft above land-surface datum, May 19, 1983; lowest measured, 15.58 ft below land surface datum, Sept. 30, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB    | MAR  | APR   | MAY    | JUN  | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|--------|------|-------|--------|------|-------|-------|-------|
| 5           | ---   | 12.00 | 11.00 | 10.55 | 9.49   | 8.71 | 5.35  | 6.49   | 8.58 | 10.06 | 12.41 | 14.03 |
| 10          | ---   | 11.96 | 10.95 | 10.24 | 9.24   | 8.45 | 5.42  | 6.74   | 8.98 | 10.45 | 12.69 | 14.27 |
| 15          | 12.47 | 11.93 | 10.81 | 10.03 | 9.15   | 8.15 | 5.41  | 7.10   | 9.28 | 10.86 | 13.02 | 14.63 |
| 20          | 12.71 | 11.42 | 10.77 | 9.69  | 9.22   | 5.96 | 5.55  | 7.46   | 9.38 | 11.21 | 13.21 | 14.98 |
| 25          | 11.90 | 11.28 | 10.79 | 9.70  | 8.75   | 5.05 | 5.60  | 7.72   | 9.68 | 11.47 | 13.51 | 15.34 |
| EOM         | 11.95 | 11.00 | 10.63 | 9.48  | 8.75   | 4.77 | 6.11  | 8.16   | 9.98 | 11.96 | 13.81 | 15.73 |
| WTR YR 1985 | MEAN  | 10.06 | HIGH  | 4.76  | MAR 28 | LOW  | 15.73 | SEP 30 |      |       |       |       |

332202090592501. Local number D179.

LOCATION.--Lat 33°22'02", long 90°59'25", Hydrologic Unit 08030209, SE¼NW¼ sec.38, T.18 N., R.8 W., 5 mi southeast of center of Greenville.

Owner: G. A. Clements.

AQUIFER.--Mississippi River Valley alluvium of Pleistocene and Holocene age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 16 in, depth 110 ft.

DATUM.--Land-surface datum is about 116 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 1.10 ft above land-surface datum.

PERIOD OF RECORD.--May 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.02 ft below land-surface datum, June 27, 1983; lowest measured, 36.55 ft below land-surface datum, July 27, 1984.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 to SEPTEMBER 1985  
LOWEST LEVELS

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB   | MAR  | APR   | MAY   | JUN | JUL | AUG | SEP |
|-------------|-------|-------|-------|-------|-------|------|-------|-------|-----|-----|-----|-----|
| 5           | 17.52 |       | ---   | 10.93 | 9.01  | 7.84 | 7.24  | 8.29  |     |     |     |     |
| 10          | 15.87 |       | ---   | 10.63 | 8.74  | 7.88 | 7.63  | 8.94  |     |     |     |     |
| 15          | 15.35 |       | 10.96 | 10.54 | 8.35  | 8.06 | 7.48  | 9.98  |     |     |     |     |
| 20          | 14.99 |       | 10.69 | 10.06 | 8.40  | 8.06 | 11.27 | 12.59 |     |     |     |     |
| 25          | 13.55 |       | 10.88 | 9.86  | 8.19  | 7.99 | 9.04  | 11.40 |     |     |     |     |
| EOM         | ---   |       | 10.73 | 9.13  | 7.84  | 7.53 | 8.39  | 14.37 |     |     |     |     |
| WTR YR 1985 | MEAN  | 10.27 | HIGH  | 7.20  | APR 4 | LOW  | 18.68 | OCT 1 |     |     |     |     |



## WASHINGTON COUNTY--Continued

332007090525401. Local number, H014.

LOCATION.--Lat 33°20'07", long 90°52'54", Hydrologic Unit 08030209, NW¼SW¼ sec.12, T.17 N., R.7 W., 5 mi south of center of Leland and east of Deer Creek.

Owner: Louis Munn.

AQUIFER.--Mississippi River Valley alluvium of Pleistocene and Holocene age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 10 in, depth 102 ft, cased to 72 ft.

DATUM.--Land-surface datum is about 115 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--March 1956 to October 1963, January 1965 to October 1966, October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.86 ft below land-surface datum, Oct. 14, 1958; lowest measured, 26.25 ft below land-surface datum, June 9, 1981.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| OCT 11 | 23.24       | DEC 13 | 23.31       | MAR 25 | 22.08       | JUN 17 | 21.81       |

331808090532901. Local number, H101.

LOCATION.--Lat 33°18'08", long 90°53'29", Hydrologic Unit 08030209, SW¼SE¼ sec.23, T.17 N., R.7 W., 0.1 mi southwest of center of Wilmot.

Owner: J. A. Aldridge.

AQUIFER.--Meridian Sand Member of Tallahatta Formation of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 1,903 ft, cased to 1,895 ft.

DATUM.--Land-surface datum is about 120 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of tee, 0.80 ft above land-surface datum.

PERIOD OF RECORD.--February 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 53.5 ft above land-surface datum, Dec. 20, 1954; lowest measured, 8.0 ft above land-surface datum, Nov. 15, 1979.

## WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL |
|--------|-------------|
| MAR 25 | 10.0        |

331120090413001. Local number, M044.

LOCATION.--Lat 33°11'20", long 90°41'30", Hydrologic Unit 08030207, NW¼SW¼ sec.35, T.16 N., R.5 W., 11 mi east of center of Hollandale on State Highway 12 at Sunflower River.

Owner: Dave Jones.

AQUIFER.--Mississippi River Valley alluvium of Pleistocene and Holocene age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 16 in, depth reported 110 ft.

DATUM.--Land-surface datum is about 105 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 1.20 ft above land-surface datum.

PERIOD OF RECORD.--May 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.28 ft below land-surface datum, Apr. 25, 1975; lowest measured, 31.98 ft below land-surface datum, Sept. 15, 1983.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL |
|--------|-------------|
| MAR 25 | 27.37       |

330227090592001. Local number, S004.

LOCATION.--Lat 33°02'27", long 90°59'20", Hydrologic Unit 08030209, SW¼SE¼ sec.28, T.14 N., R.8 W., 1.2 mi northeast of center of Hampton on south side of State Highway 436.

Owner: Agricultural Chemical Corp.

AQUIFER.--Mississippi River Valley alluvium of Pleistocene and Holocene age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 12 in, depth 105 ft, screened 80-105 ft.

DATUM.--Land-surface datum is 111.24 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 1.95 ft above land-surface datum.

PERIOD OF RECORD.--January 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.8 ft below land-surface datum, May 13, 1958; lowest measured, 21.81 ft below land-surface datum, Jul. 18, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|
| 5           | ---   | 12.99 | 12.01 | 13.46 | 12.24 | 11.15 | 11.47 | 13.93  | 20.35 | 20.42 | 21.76 | 16.43 |
| 10          | ---   | 13.31 | 12.19 | 13.60 | 11.70 | 11.55 | 12.04 | 13.22  | 20.92 | 20.81 | 20.25 | 15.94 |
| 15          | 14.07 | 13.23 | 12.63 | 13.71 | 11.03 | 11.86 | 12.27 | 14.05  | 20.05 | 21.23 | 19.77 | 16.27 |
| 20          | 13.58 | 12.17 | 12.81 | 12.71 | 11.53 | 12.07 | 13.50 | 18.77  | 19.05 | 21.54 | 16.38 | 16.51 |
| 25          | 12.32 | 12.03 | 13.15 | 12.98 | 11.14 | 12.07 | 12.69 | 17.38  | 21.06 | 20.67 | 16.31 | 16.86 |
| EOM         | 12.68 | 11.81 | 13.24 | 12.59 | 10.57 | 11.89 | 12.39 | 14.65  | 20.49 | 21.81 | 16.54 | 16.86 |
| WTR YR 1985 | MEAN  | 14.93 | HIGH  | 10.55 | MAR 1 | LOW   | 21.81 | JUL 18 |       |       |       |       |

## GROUND-WATER LEVELS

## WAYNE COUNTY

314115088392301. Local number, N151.

LOCATION.--Lat 31°41'15", long 88°39'23", Hydrologic Unit 03170002, NE¼SE¼ sec.2, T.8 N., R.7 W., 1 mi northwest of center of Waynesboro at Turner Street and Gulf Mobile and Ohio Railroad.

Owner: Town of Waynesboro.

AQUIFER.--Sand of Vicksburg Group of Oligocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 18 in, depth 82 ft, cased to 32 ft.

DATUM.--Land-surface datum is about 180 ft National Geodetic Vertical Datum of 1929. Measuring point: 1-in hole in breather pipe inside recorder shelter, 2.30 ft above land-surface datum.

PERIOD OF RECORD.--April 1973, February 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.88 ft below land-surface datum, Apr. 16, 1984; lowest measured, 35.73 ft below land-surface datum, Feb. 3, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| SEP 19 | 24.76          |

## WEBSTER COUNTY

332425089212001. Local number, M025.

LOCATION.--Lat 33°24'25", long 89°21'20", Hydrologic Unit 08060201, SW¼NW¼ sec.28, T.19 N., R.9 E., north side of U.S. Highway 82, 0.2 mi east of Tomnolem.

Owner: Town of Tomnolem.

AQUIFER.--Sand of lower part of Wilcox Group of late Paleocene age.

WELL CHARACTERISTICS.--Drilled public-supply well, diameter 10 in, depth 359 ft.

DATUM.--Land-surface datum is about 350 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of concrete pump base, 1.80 ft above land-surface datum.

PERIOD OF RECORD.--December 1970, July 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.0 ft below land-surface datum, Dec. 30, 1970; lowest measured, 37.36 ft below land-surface datum, Aug. 27, 1984.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| APR 22 | 34.16          |

333021089202901. Local number, M028.

LOCATION.--Lat 33°30'21", long 89°20'29", Hydrologic Unit 08060201, SE¼SW¼ sec.15, T.19 N., R.9 E., 5 mi southwest of center of Eupora off U.S. Highway 82.

Owner: Town of Eupora.

AQUIFER.--Sand of lower part of Wilcox Group of late Paleocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in, depth 344 ft.

DATUM.--Land-surface datum is about 395 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder floor at 2.75 ft above land-surface datum.

PERIOD OF RECORD.--April 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 98.09 ft below land-surface datum, Apr. 29, 1985; lowest measured, 128.21 ft below land-surface datum, Sept. 6, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY | OCT | NOV | DEC | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-----|-----|-----|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5   |     |     |     | ---    | 121.49 | 118.49 | 106.70 | 105.79 | 121.52 | 114.40 | 122.41 | 128.07 |
| 10  |     |     |     | ---    | 122.12 | 111.68 | 106.31 | 106.51 | 112.48 | 125.83 | 117.07 | 116.34 |
| 15  |     |     |     | ---    | 121.89 | 117.98 | 106.47 | 109.30 | 117.53 | 122.97 | 124.37 | 119.27 |
| 20  |     |     |     | ---    | 119.57 | 107.84 | 106.16 | 106.84 | 114.33 | 125.00 | 112.59 | 124.62 |
| 25  |     |     |     | ---    | 111.72 | 109.56 | 107.68 | 113.49 | 123.62 | 123.78 | 119.72 | 117.38 |
| EOM |     |     |     | 118.61 | 110.23 | 107.15 | 98.09  | 115.30 | 121.82 | 121.97 | 113.60 | 116.46 |

WTR YR 1985 MEAN 115.92 HIGH 98.09 APR 29 LOW 128.21 SEP 6

## WILKINSON COUNTY

310415091042201. Local number, T101.

LOCATION.--Lat 31°04'15", long 91°04'22", Hydrologic Unit 08070202, SE¼NW¼ sec.2, T.1 N., R.1 E., 1 mi southwest of center of Centreville on State Highway 33.

Owner: J. P. Kennedy. Old Camp Van Dorn.

AQUIFER.--Sand of Pascagoula Formation of late Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 16 in, depth 222 ft, screened 162-222 ft cased to 162 ft.

DATUM.--Land-surface datum is 353.5 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of hole in cover plate, 1.20 ft above land-surface datum.

PERIOD OF RECORD.--May 1942, March 1954 to October 1963, March 1968, March 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 43.0 ft below land-surface datum, May 5, 1942; lowest measured, 52.22 ft below land-surface datum, Dec. 10, 1954.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE  | WATER<br>LEVEL |
|--------|----------------|-------|----------------|
| OCT 17 | 50.40          | APR 9 | 50.18          |

## GROUND-WATER LEVELS

295

## WILKINSON COUNTY--Continued

310415091042202. Local number, T102.

LOCATION.--Lat 31°04'15", long 91°04'22", Hydrologic Unit 08070202, SE¼NW¼ sec.2, T.1 N., R.1 E., 1 mi southwest of center of Centreville on State Highway 33.

Owner: J. P. Kennedy. Old Camp Van Dorn.

AQUIFER.--Sand of Pascagoula Formation of late Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in, depth 415 ft, screened 355-415 ft, cased to 355 ft.

DATUM.--Land-surface datum is 355.1 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of hole in cover plate, 1.48 ft above land-surface datum.

PERIOD OF RECORD.--May 1942, March 1954 to October 1963, March 1968, March 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 128.4 ft below land-surface datum, May 5, 1942; lowest measured, 167.27 ft below land-surface datum, June 18, 1980.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE  | WATER<br>LEVEL |
|--------|----------------|-------|----------------|
| OCT 17 | 166.07         | APR 9 | 166.99         |

310415091042203. Local number, T103.

LOCATION.--Lat 31°04'15", long 91°04'22", Hydrologic Unit 08070202, SE¼NW¼ sec.2, T.1 N., R.1 E., 1 mi southwest of center of Centreville on State Highway 33.

Owner: J. P. Kennedy. Old Camp Van Dorn.

AQUIFER.--Sand of Catahoula Sandstone of Miocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in, depth 1,685 ft, screened 1,625-1,685 ft, cased to 1,625 ft.

DATUM.--Land-surface datum is 356.4 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of hole in cover plate, 1.40 ft above land-surface datum.

PERIOD OF RECORD.--May 1942, February 1954 to October 1963, March 1968, March 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 238.1 ft below land-surface datum, May 13, 1942; lowest measured, 278.68 ft below land-surface datum, Oct. 17, 1984.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE  | WATER<br>LEVEL |
|--------|----------------|-------|----------------|
| OCT 17 | 278.68         | APR 9 | 278.55         |

## YAZOO COUNTY

325905090192202. Local number, B102.

LOCATION.--Lat 32°59'05", long 90°19'22", Hydrologic Unit 08030206, SE¼SW¼ sec.8, T.13 N., R.1 W., at Eden across street from post office.

Owner: Town of Eden.

AQUIFER.--Sparta Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 3 in, depth 800 ft, cased to 770 ft.

DATUM.--Land-surface datum is 112.3 ft National Geodetic Vertical Datum of 1929. Measuring point: Bottom edge of hole in north side of casing, 5.30 ft above land-surface datum.

PERIOD OF RECORD.--1919, February 1939, April 1943 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.7 ft above land-surface datum, 1919; lowest measured, 22.63 ft below land-surface datum, Oct. 10, 1984.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| OCT 10 | 22.63          | MAR 19 | 22.02          |

325905090192201. Local number, B103.

LOCATION.--Lat 32°59'05", long 90°19'22", Hydrologic Unit 08030206, SE¼SW¼ sec.8, T.13 N., R.1 W., at Eden across from Baptist church.

Owner: Town of Eden.

AQUIFER.--Meridian Sand Member of Tallahatta Formation of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled public-supply artesian well, diameter 4-2.5 in, depth 1,735 ft, screened 1,659-1,669, 1,689-1,699, 1,705-1,715 ft.

DATUM.--Land-surface datum is about 112 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of cap, 0.50 ft above land-surface datum.

REMARKS.--Water levels affected by leakage.

PERIOD OF RECORD.--January 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 143.2 ft above land-surface datum, January 1954; lowest measured, 52.0 ft above land-surface datum, May 17, 1983.

## WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| JUN 19 | 106.5          |

## GROUND-WATER LEVELS

## YAZOO COUNTY--Continued

325100090250701. Local number, G006.

LOCATION.--Lat 32°51'00", long 90°25'07", Hydrologic Unit 08030206, SW¼NE¼ sec.32, T.12 N., R.2 W., 0.3 mi north-west of center of Yazoo City at power plant on Bridge Street.

Owner: Yazoo City.

AQUIFER.--Mississippi River Valley alluvium of Pleistocene and Holocene age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 16-12 in, depth 212 ft, cased to 152 ft.

DATUM.--Land-surface datum is about 100 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing or top of recorder house floor, 5.60 ft above land-surface datum.

PERIOD OF RECORD.--September 1940, November 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.81 ft below land-surface datum, June 25, 1983; lowest measured, 35.68 ft below land-surface datum, Apr. 10, 1979.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| OCT 10 | 21.12          | MAR 19 | 17.20          | JUN 19 | 24.19          |

325016090251601. Local number, G126.

LOCATION.--Lat 32°50'16", long 90°25'16", Hydrologic Unit 08030206, SW¼NE¼ sec.32, T.12 N., R.2 W., 0.3 mi northwest of center of Yazoo City at power plant on Bridge Street.

Owner: Yazoo City.

AQUIFER.--Sparta Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 801 ft, cased to 761 ft.

DATUM.--Land-surface datum is about 96 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 4.0 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--January 1939, January 1955 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.1 ft above land-surface datum, Jan. 17, 1939; lowest measured, 48.35 ft below land-surface datum, June 19, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| OCT 10 | 45.46          | MAR 19 | 40.17          | JUN 19 | 48.35          |

324850090412801. Local number, J012.

LOCATION.--Lat 32°48'50", long 90°41'28", Hydrologic Unit 08030207, NE¼SE¼ sec.10, T.11 N., R.5 W., 0.9 mi east of Holly Bluff.

Owner: USCE, L7Y1.

AQUIFER.--Mississippi River Valley alluvium of Pleistocene and Holocene age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 4 in, depth 59 ft.

DATUM.--Land-surface datum is about 100 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 3.02 ft above land-surface datum.

REMARKS.--Water levels affected by river stage.

PERIOD OF RECORD.--November 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.54 ft below land-surface datum, June 25, 1983; lowest measured, 25.37 ft below land-surface datum, Dec. 10, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB    | MAR   | APR   | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|
| 5           | 19.60 | 15.69 | ---   | 16.75 | 16.45  | 13.69 | 12.69 | 14.32  | 18.16 | 18.63 | 19.53 | 20.22 |
| 10          | 18.43 | 16.90 | ---   | 16.35 | 15.82  | 13.43 | 12.71 | 14.46  | 18.38 | 18.85 | 19.00 | 20.10 |
| 15          | 17.40 | ---   | 17.54 | 16.07 | 14.43  | 13.32 | 12.55 | 14.59  | 17.72 | 18.98 | 19.33 | 20.22 |
| 20          | 17.20 | ---   | 18.19 | 15.34 | 15.14  | 13.04 | 12.62 | 16.17  | 17.85 | 19.40 | 18.70 | 20.36 |
| 25          | 15.40 | ---   | 17.65 | 16.22 | 14.68  | 12.98 | 13.01 | 17.07  | 18.26 | 19.12 | 19.23 | 20.46 |
| EOM         | 14.83 | ---   | 17.10 | 16.71 | 13.92  | 12.69 | 13.45 | 17.90  | 18.38 | 18.87 | 19.96 | 20.55 |
| WTR YR 1985 | MEAN  | 16.75 | HIGH  | 12.55 | APR 15 | LOW   | 20.55 | SEP 29 |       |       |       |       |



## GROUND-WATER LEVELS

297

## YAZOO COUNTY--Continued

324615090375001. Local number, J013.

LOCATION.--Lat 32°46'15", long 90°37'50", Hydrologic Unit 08030207, SE¼NW¼ sec.19, T.11 N., R.4 W., 5.5 mi southeast of center of Holly Bluff.

Owner: USCE, L7Y2.

AQUIFER.--Mississippi River Valley alluvium of Pleistocene and Holocene age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 4 in, depth 74 ft.

DATUM.--Land-surface datum is 98.74 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 3.11 ft above land-surface datum.

REMARKS.--Water levels affected by river stage.

PERIOD OF RECORD.--November 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.24 ft below land-surface datum, June 5, 1983; lowest measured, 25.90 ft above land-surface datum, Jan. 3, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB    | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 5           | ---   | 18.00 | 17.42 | 14.71 |        | ---   | 13.03 | 15.90 | 20.99 | 20.04 | 20.74 | 20.46 |
| 10          | 20.50 | 18.63 | 17.28 | ---   |        | ---   | 13.28 | 15.95 | ---   | 20.22 | 20.62 | 20.61 |
| 15          | 19.96 | 18.50 | 16.53 | ---   |        | ---   | 12.99 | 16.01 | ---   | 20.38 | 20.60 | 20.64 |
| 20          | 19.85 | 18.00 | 16.38 | ---   |        | 11.93 | 13.31 | 19.08 | 19.47 | 20.61 | 20.24 | 20.66 |
| 25          | 17.25 | 17.80 | 16.26 | ---   |        | 12.31 | 14.55 | 19.91 | 19.59 | 20.56 | 20.44 | 20.73 |
| EOM         | 17.55 | 17.48 | 15.27 | ---   |        | 12.59 | 15.33 | 20.76 | 19.90 | 20.77 | 20.49 | 20.76 |
| WTR YR 1985 | MEAN  | 18.10 | HIGH  | 11.88 | MAR 21 | LOW   | 21.10 | JUN 9 |       |       |       |       |

324936090423001. Local number, J128.

LOCATION.--Lat 32°49'36", long 90°42'30", Hydrologic Unit 08030207, NE¼SE¼ sec.4, T.11 N., R.5 W., 0.2 mi north of center of Holly Bluff at Holly Bluff School.

Owner: Holly Bluff Consolidated School.

AQUIFER.--Sparta Sand of Claiborne Group of middle Eocene age.

WELL CHARACTERISTICS.--Drilled school-supply artesian well, diameter 4 in, depth 980 ft, cased to 940 ft.

DATUM.--Land-surface datum is about 103 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of tee, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--August 1939, March 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 38.7 ft above land-surface datum, Aug. 17, 1939; lowest measured, 22.9 ft below land-surface datum, Oct. 9, 1984.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|
| OCT 9 | 22.90          | MAR 19 | 22.48          |

324419090351201. Local number, P018.

LOCATION.--Lat 32°44'19", long 90°35'12", Hydrologic Unit 08030207, SW¼SW¼ sec.2, T.10 N., R.4 W., 5 mi northwest of Satartia.

Owner: USCE, L7Y3.

AQUIFER.--Mississippi River Valley alluvium of Pleistocene and Holocene age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 4 in, depth 53 ft.

DATUM.--Land-surface datum is 101.59 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 2.94 ft above land-surface datum.

REMARKS.--Water level affected by river stage.

PERIOD OF RECORD.--November 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.72 ft below land-surface datum, May 7, 1980; lowest measured, 29.45 ft below land-surface datum, July 11, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB    | MAR   | APR   | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|
| 5           | ---   | 20.29 | 20.19 | 19.88 | 19.80  | 19.05 | 18.59 | 18.92  | 20.60 | 21.45 | 22.21 | 22.25 |
| 10          | 20.80 | 20.33 | 20.00 | 19.77 | 19.67  | 18.88 | 18.74 | 18.99  | 20.85 | 21.55 | 22.16 | 22.36 |
| 15          | 20.72 | 20.34 | 20.13 | 19.69 | 19.43  | 18.74 | 18.55 | 19.14  | 20.87 | 21.73 | 22.25 | 22.36 |
| 20          | 20.72 | 20.39 | 20.10 | 19.92 | 19.46  | 18.62 | 18.67 | 19.49  | 20.99 | 21.92 | 22.27 | 22.38 |
| 25          | 20.28 | 20.20 | 20.18 | 19.89 | 19.26  | 18.72 | 18.74 | 19.91  | 21.06 | 22.03 | 22.22 | 22.50 |
| EOM         | 20.28 | 20.13 | 19.96 | 19.77 | 19.20  | 18.68 | 18.77 | 20.25  | 21.36 | 22.05 | 22.23 | 22.53 |
| WTR YR 1985 | MEAN  | 20.37 | HIGH  | 18.50 | MAR 21 | LOW   | 22.53 | SEP 28 |       |       |       |       |



## GROUND-WATER LEVELS

## YAZOO COUNTY--Continued

324354090325501. Local number, Q013.

LOCATION.--Lat 32°43'54", long 90°32'55", Hydrologic Unit 08030206, center NW¼ sec.7, T.10 N., R.3 W., 4 mi north of Satartia.

Owner: John Peaster.

AQUIFER.--Mississippi River Valley alluvium of Pleistocene and Holocene age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 16 in, depth 93 ft.

DATUM.--Land-surface datum is about 95 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 0.88 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--August 1969, May 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.53 ft below land-surface datum, June 25, 1983; lowest measured, 27.26 ft below land-surface datum, May 6, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY    | JUN        | JUL | AUG | SEP |
|-------------|-------|-------|-------|-------|-------|-------|-------|--------|------------|-----|-----|-----|
| 5           | ---   | 16.96 | 16.39 | 16.27 | 15.77 | 15.11 | 14.70 | 14.98  |            |     |     |     |
| 10          | 19.17 | 16.93 | 16.25 | 16.25 | 15.62 | 14.94 | 15.10 | 15.02  |            |     |     |     |
| 15          | 17.93 | 16.77 | 16.54 | 16.17 | 15.59 | 14.98 | 14.77 | 15.03  |            |     |     |     |
| 20          | 17.77 | 16.91 | 16.33 | 16.33 | 15.55 | 14.87 | 14.93 | 15.86  |            |     |     |     |
| 25          | 17.25 | 16.52 | 16.56 | 16.12 | 15.32 | 15.04 | 14.94 | ---    |            |     |     |     |
| EOM         | 17.07 | 16.52 | 16.25 | 15.89 | 15.13 | 14.91 | 15.02 | ---    |            |     |     |     |
| WTR YR 1985 | MEAN  | 15.96 | HIGH  | 14.70 | APR 5 | LOW   | 19.17 | OCT 10 | AND OTHERS |     |     |     |

## ALCORN COUNTY

344638088214801. Local number L034. (USCE NW1-1)

LOCATION.--Lat 34°46'38", long 88°21'48", Hydrologic Unit 06030005, NE¼NE¼ sec.32, T.3 S., R.9 E., 3 mi southwest of intersection of State Highway 365 and 367.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 280 ft.

DATUM.--Land-surface datum is about 500 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.10 ft above land-surface datum.

PERIOD OF RECORD.--October 1978, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 94.1 ft below land-surface datum, May 23, 1985; lowest measured 104.59 ft below land-surface datum, Feb. 22, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| AUG 24 | 104.28         | MAY 23 | 103.95         | FEB 21 | 104.59         |

344638088214802. Local number L035. (USCE NW1-2)

LOCATION.--Lat 34°46'38", long 88°21'48", Hydrologic Unit 06030005, NE¼NE¼ sec.32, T.3 S., R.9 E., 3 mi southwest of intersection of State Highways 365 and 367.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 250 ft.

DATUM.--Land-surface datum is about 500 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.80 ft above land-surface datum.

PERIOD OF RECORD.--October 1978, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 82.0 ft below land-surface datum, Oct. 18, 1978; lowest measured, 94.56 ft below land-surface datum, Feb. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 94.56          | MAY 23 | 93.73          | AUG 24 | 94.20          |

344638088214803. Local number L036. (USCE NW1-3)

LOCATION.--Lat 34°46'38", long 88°21'48", Hydrologic Unit 06030005, NE¼SE¼ sec.32, T.3 S., R.9 E., 3 mi southwest of intersection of State Highway 365 and 367.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 207 ft.

DATUM.--Land-surface datum is about 500 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.90 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 92.85 ft below land-surface datum, Aug. 24, 1985; lowest measured, 93.80 ft below land-surface datum, Feb. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 93.80          | MAY 23 | 93.25          | AUG 24 | 92.85          |

344638088214804. Local number L037. (USCE NW1-4)

LOCATION.--Lat 34°46'38", long 88°21'48", Hydrologic Unit 06030005, NE¼NE¼ sec.32, T.3 S., R.9 E., 3 mi southwest of State Highway 365 and 367.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 166 ft.

DATUM.--Land-surface datum is about 500 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.75 ft above land-surface datum.

PERIOD OF RECORD.--October 1978, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 75.0 ft below land-surface datum, Oct. 18, 1978; lowest measured, 86.98 ft below land-surface datum, Feb. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 86.98          | MAY 23 | 86.32          | AUG 24 | 84.73          |

## GROUND-WATER LEVELS IN THE TENNESSEE-TOMBIGBEE STUDY AREA

## ALCORN COUNTY--Continued

344608088232602. Local number L038. (USCE NW2-2)

LOCATION.--Lat 34°46'08", long 88°23'26", Hydrologic Unit 08010207, NW¼NE¼ sec.6, T.4 S., R.9 E., 2.5 mi east of Jacinto.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 400 ft.

DATUM.--Land-surface datum is about 600 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.25 ft above land-surface datum.

PERIOD OF RECORD.--October 1978, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 184.0 ft below land-surface datum, Oct. 18, 1978; lowest measured 195.21 ft below land-surface datum, Aug. 23, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 195.14         | MAY 29 | 194.72         | AUG 23 | 195.21         |

344608088232601. Local number L039. (USCE NW2-1)

LOCATION.--Lat 34°46'08", long 88°23'26", Hydrologic Unit 06030005, NW¼NE¼ sec.6, T.4 S., R.9 E., 2.5 mi east of Jacinto.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Rocks of Paleozoic age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 621 ft.

DATUM.--Land-surface datum is about 590 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.25 ft above land-surface datum.

PERIOD OF RECORD.--October 1978, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 194.16 ft below land-surface datum, May 29, 1985; lowest measured, 207.0 ft below land-surface datum, Oct. 18, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 194.62         | MAY 29 | 194.16         | AUG 23 | 194.64         |

344608088232603. Local number L040. (USCE NW2-3)

LOCATION.--Lat 34°46'08", long 88°23'26", Hydrologic Unit 06030005, NW¼NE¼ sec.6, T.4 S., R.9 E., 2.4 mi east of Jacinto.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 327 ft.

DATUM.--Land-surface datum is about 580 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 4.0 ft above land-surface datum.

PERIOD OF RECORD.--October 1978, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 185.19 ft below land-surface datum, May 29, 1985; lowest measured, 186.26 ft below land-surface datum, Aug. 23, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 185.20         | MAY 29 | 185.19         | AUG 23 | 186.26         |

344608088244301. Local number L041. (USCE NW3-1)

LOCATION.--Lat 34°46'08", long 88°24'43", Hydrologic Unit 08010207, NE¼NW¼ sec.1, T.4 S., R.8 E., 1 mi northeast of Jacinto.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 428 ft.

DATUM.--Land-surface datum is about 590 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.10 ft above land-surface datum.

PERIOD OF RECORD.--July 1980, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 189.0 ft below land-surface datum, July 15, 1980; lowest measured, 199.23 ft below land-surface datum, Aug. 23, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 198.87         | MAY 29 | 198.70         | AUG 23 | 199.23         |

## ALCORN COUNTY--Continued

344608088244302. Local number L042. (USCE NW3-2)

LOCATION.--Lat 34°46'08", long 88°24'43", Hydrologic Unit 08010207, NE¼NW¼ sec.1, T.4 S., R.8 E., 1 mi northeast of Jacinto.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 398 ft.

DATUM.--Land-surface datum is about 580 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 4.00 ft above land-surface datum.

PERIOD OF RECORD.--July 1980, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 189.0 ft below land-surface datum, July 15, 1980; lowest measured, 198.69 ft below land-surface datum, Aug. 23, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 198.34         | MAY 29 | 198.11         | AUG 23 | 198.69         |

344608088244303. Local number L043. (USCE NW3-3)

LOCATION.--Lat 34°46'08", long 88°24'43", Hydrologic Unit 06030005, NE¼NW¼ sec.1, T.4 S., R.8 E., 1.2 mi northeast of Jacinto.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 320 ft.

DATUM.--Land-surface datum is about 590 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.9 ft above land-surface datum.

PERIOD OF RECORD.--July 1980, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 187.0 ft below land-surface datum, July 15, 1980; lowest measured, 197.59 ft below land-surface datum, Aug. 23, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 197.58         | MAY 29 | 197.03         | AUG 23 | 197.59         |

344608088244304. Local number L044. (USCE NW3-4)

LOCATION.--Lat 34°46'08", long 88°24'43", Hydrologic Unit 08010207, NE¼NW¼ sec.1, T.4 S., R.8 E., 1.2 mi northeast of Jacinto.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 270 ft.

DATUM.--Land-surface datum is about 590 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.60 ft above land-surface datum.

PERIOD OF RECORD.--July 1980, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 166.0 ft below land-surface datum, July 15, 1980; lowest measured, 194.54 ft below land-surface datum, Aug. 23, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 194.13         | MAY 29 | 193.96         | AUG 23 | 194.54         |

344536088260601. Local number L045. (USCE NW4-1)

LOCATION.--Lat 34°45'36", long 88°26'06", Hydrologic Unit 08010207, NW¼SW¼ sec.2, T.4 S., R.8 E.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4.0 in, depth 415 ft.

DATUM.--Land-surface datum is about 520 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 4.0 in pipe, 3.10 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 168.55 ft below land-surface datum, Feb. 22, 1985; lowest measured, 170.49 ft below land-surface datum, May 29, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 168.55         | MAY 29 | 170.49         | AUG 23 | 168.99         |

## GROUND-WATER LEVELS IN THE TENNESSEE-TOMBIGBEE STUDY AREA

## ALCORN COUNTY--Continued

345042088230901. Local number L046. (USCE W4-1)

LOCATION.--Lat 34°50'42", long 88°23'09", Hydrologic Unit 06030005, SE¼SE¼ sec.6, T.3 S., R.9 E., 3.7 mi west of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 460 ft.

DATUM.--Land-surface datum is about 600 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.90 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 209.96 ft below land-surface datum, May 23, 1985; lowest measured, 218.18 ft below land-surface datum, Feb. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 218.18         | MAY 23 | 209.96         | AUG 22 | 210.75         |

345042088230902. Local number L047. (USCE W4-2)

LOCATION.--Lat 34°50'42", long 88°23'09", Hydrologic Unit 06030005, SE¼SE¼ sec.6, T.3 S., R.9 E., 3.7 mi west of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 3 in, depth 259 ft.

DATUM.--Land-surface datum is about 600 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 3 in pipe, 2.75 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 212.35 ft below land-surface datum, May 23, 1985; lowest measured, 214.58 ft below land-surface datum, Feb. 22, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 214.58         | MAY 23 | 212.35         | AUG 24 | 212.96         |

345042088230903. Local number L048. (USCE W4-3)

LOCATION.--Lat 34°50'42", long 88°23'09", Hydrologic Unit 06030005, SE¼SE¼ sec.6, T.3 S., R.9 E., 3.7 mi west of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 315 ft.

DATUM.--Land-surface datum is about 600 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.70 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 211.00 ft below land-surface datum Feb. 22, 1985; lowest measured, 218.50 below land-surface datum, Aug. 24, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 211.00         | MAY 23 | 217.96         | AUG 24 | 218.50         |

344857088225101. Local number L049. (USCE W7-1)

LOCATION.--Lat 34°48'57", long 88°22'51", Hydrologic Unit 06030005, SW¼SW¼ sec.17, T.3 S., R.9 E., 3.7 mi southwest of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 430 ft.

DATUM.--Land-surface datum is about 600 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.55 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 197.14 ft below land-surface datum, May 23, 1985; lowest measured, 197.75 below land-surface datum, Feb. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 197.75         | MAY 23 | 197.14         | AUG 24 | 197.64         |



## ALCORN COUNTY--Continued

344857088225102. Local number L050. (USCE W7-2A)

LOCATION.--Lat 34°48'57", long 88°22'51", Hydrologic Unit 06030005, SW¼SW¼ sec.17, T.3 S., R.9 E., 3.7 mi southwest of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 380 ft.

DATUM.--Land-surface datum is about 600 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.90 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 197.34 ft below land-surface datum, Aug. 24, 1985; lowest measured, 201.86 ft below land-surface datum, May 23, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 197.46         | MAY 23 | 201.86         | AUG 24 | 197.34         |

344522088220301. Local number L051. (USCE W8-1)

LOCATION.--Lat 34°45'22", long 88°22'03", Hydrologic Unit 06030005, SE¼SE¼ sec.5, T.4 S., R.9 E., 6.4 mi southwest of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 340 ft.

DATUM.--Land-surface datum is about 520 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.75 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 141.53 ft below land-surface datum, May 23, 1985; lowest measured 142.23 ft below land-surface datum, Feb. 22, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 142.23         | MAY 23 | 141.53         | AUG 24 | 142.07         |

344522088220302. Local number L052. (USCE W8-2)

LOCATION.--Lat 34°45'22", long 88°22'03", Hydrologic Unit 06030005, SE¼SE¼ sec.5, T.4 S., R.9 E., 6.4 mi southwest of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 3 in, depth 263 ft.

DATUM.--Land-surface datum is about 520 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 3 in pipe, 2.70 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 130.31 ft below land-surface datum, May 23, 1985; lowest measured, 131.87 ft below land-surface datum, Aug. 24, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 131.85         | MAY 23 | 130.31         | AUG 24 | 131.87         |

344522088220303. Local number L053. (USCE W8-3)

LOCATION.--Lat 34°45'22", long 88°22'03", Hydrologic Unit 06030005, SE¼SE¼ sec.5, T.4 S., R.9 E., 6.4 mi southwest of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 3.0 in, depth 182 ft.

DATUM.--Land-surface datum is about 537 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 3 in pipe, 2.70 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 104.36 below land-surface datum, May 23, 1985; lowest measured, 105.22 ft below land-surface datum, Aug. 24, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 105.15         | MAY 23 | 104.36         | AUG 24 | 105.22         |

## GROUND-WATER LEVELS IN THE TENNESSEE-TOMBIGBEE STUDY AREA

## CLAY COUNTY

333351088320301. Local number J097. (USCE 111A)

LOCATION.--Lat 33°35'51", long 88°32'03", Hydrologic Unit 03160101, SW¼SW¼ sec.26, T.17 S., R.7 E., 7.2 mi south-east of West Point.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 110 ft, cased to 100 ft.

DATUM.--Land-surface datum is about 180 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.3 ft above land-surface datum.

PERIOD OF RECORD.--September 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.00 ft below land-surface datum, Mar. 22, 1973; lowest measured, 23.20 ft below land-surface datum, Nov. 4, 1980.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 27 | 22.56          | JAN 28 | 22.14          | MAY 15 | 21.72          | AUG 27 | 23.15          |

333402088301001. Local number J098. (USCE 112A)

LOCATION.--Lat 33°40'20", long 88°30'10", Hydrologic Unit 03160101, NE¼SE¼ sec.30, T.17 S., R.8 E., 8.8 mi south-east of West Point.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 58 ft, cased to 48 ft.

DATUM.--Land-surface datum is about 190 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 0.7 ft above land-surface datum.

PERIOD OF RECORD.--September 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.80 ft below land-surface datum, Apr. 22, 1973; lowest measured, 12.63 ft below land-surface datum, Nov. 15, 1978.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## LOWEST LEVELS

| DAY | OCT   | NOV   | DEC   | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL   | AUG   | SEP   |
|-----|-------|-------|-------|------|------|------|------|------|------|-------|-------|-------|
| 5   | 11.08 | 11.22 | 10.52 | 8.17 | 7.09 | 6.83 | 6.71 | 6.66 | 7.01 | 9.74  | 10.71 | 11.07 |
| 10  | 11.16 | 11.22 | 10.25 | 7.92 | 7.09 | 6.85 | 6.72 | 6.61 | 7.12 | 9.96  | 10.68 | 11.16 |
| 15  | 11.13 | 11.17 | 9.73  | 7.76 | 6.99 | 6.83 | 6.73 | 6.63 | 8.48 | 10.18 | 10.68 | 11.26 |
| 20  | 11.17 | 11.08 | 9.34  | 7.55 | 6.95 | 6.77 | 6.77 | 6.79 | 8.88 | 10.26 | 10.72 | 11.35 |
| 25  | 11.16 | 11.00 | 8.99  | 7.32 | 6.89 | 6.76 | 6.81 | 6.88 | 9.23 | 10.46 | 10.83 | 11.50 |
| EOM | 11.21 | 10.86 | 8.54  | 7.19 | 6.87 | 6.76 | 6.77 | 6.92 | 9.45 | 10.64 | 10.94 | 11.61 |

WTR YR 1984 MEAN 8.95 HIGH 6.60 MAY 9 LOW 11.61 SEP 30

333402088301101. Local number J132. (USCE GW43)

LOCATION.--Lat 30°34'02", long 88°30'11", Hydrologic Unit 03160101, NE¼SW¼ sec.30, T.17 S., R.8 E., 8 mi southeast of West Point.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 12 ft.

DATUM.--Land-surface datum is 216.2 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 1.90 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.53 ft below land-surface datum, Feb. 13, 1985; lowest measured, 6.01 ft below land-surface datum, Aug. 27, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 13 | 1.53           | MAY 15 | 3.21           | AUG 27 | 6.01           |

333351088320501. Local number J133. (USCE GW44)

LOCATION.--Lat 33°33'51", long 88°32'05", Hydrologic Unit 03160101, NW¼SE¼ sec.26, T.17 S., R.7 E., 7.25 mi southeast of West Point.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 14 ft.

DATUM.--Land-surface datum is 180.6 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.25 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.28 ft below land-surface datum, May 15, 1985; lowest measured, 10.44 ft below land-surface datum, Aug. 27, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 13 | 10.06          | MAY 15 | 8.28           | AUG 27 | 10.44          |

## CLAY COUNTY--Continued

333729088313801. Local number J134. (USCE GW47)

LOCATION.--Lat 33°37'29", long 88°31'38", Hydrologic Unit 03160101, NW¼SW¼ sec.1, T.17 S., R.7 E., 7.4 mi east of West Point.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 15 ft.

DATUM.--Land-surface datum is 179.7 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.60 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 0.60 ft below land-surface datum, Feb. 13, 1985; lowest measured, 3.02 ft below land-surface datum, Aug. 27, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 13 | 0.60           | MAY 15 | 2.24           | AUG 27 | 3.02           |

333743088310301. Local number J135. (USCE GW48)

LOCATION.--Lat 33°37'43", long 88°31'03", Hydrologic Unit 03160101, NW¼SE¼ sec.1, T.17 S., R.7 E., 8.5 mi east of West Point.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 24 ft.

DATUM.--Land-surface datum is 180.6 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.50 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.24 ft below land-surface datum, Feb. 31, 1985; lowest measured, 20.70 ft below land-surface datum, Aug. 27, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 13 | 17.24          | MAY 15 | 19.97          | AUG 27 | 20.70          |

## ITAWAMBA COUNTY

342554088240401. Local number A023. (USCE GW118)

LOCATION.--Lat 34°25'54", long 88°24'04", Hydrologic Unit 03160101, SE¼NE¼ sec.36, T.7 S., R.8 E., 11 mi north of Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--McShan sand member of Eutaw of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 23 ft.

DATUM.--Land-surface datum is 325.7 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 4.00 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.20 ft below land-surface datum, Mar. 5, 1985; lowest measured, 8.04 ft below land-surface datum, Aug. 20, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 5 | 4.20           | MAY 21 | 5.60           | AUG 20 | 8.04           |

342506088251301. Local number A024. (USCE GW119)

LOCATION.--Lat 34°25'06", long 88°25'13", Hydrologic Unit 03160101, NE¼SE¼ sec.35, T.7 S., R.8 E., 10.5 mi north-west of Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 38 ft.

DATUM.--Land-surface datum is about 295 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 1.35 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.13 ft below land-surface datum, Mar. 6, 1985; lowest measured, 6.13 ft below land-surface datum, Aug. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 6 | 2.13           | MAY 24 | 3.85           | AUG 21 | 6.13           |

## GROUND-WATER LEVELS IN THE TENNESSEE-TOMBIGBEE STUDY AREA

## ITAWAMBA COUNTY--Continued

342519088261401. Local number A025. (USCE GW120)

LOCATION.--Lat 34°25'19", long 88°26'14", Hydrologic Unit 03160101, SE¼SE¼ sec.34, T.7 S., R.8 E., 9.75 mi north-west of Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 21 ft.

DATUM.--Land-surface datum is 297.2 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.70 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.06 ft above land-surface datum, May 24, 1985; lowest measured, -0.63 ft below land-surface datum, Aug. 21, 1985.

WATER LEVEL, IN FEET ABOVE AND BELOW (-) LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 6 | -0.60          | MAY 24 | 0.06           | AUG 21 | -0.63          |

342612088225801.--Local number 8005. (USCE GW117)

LOCATION.--Lat 34°26'12", long 88°22'58", Hydrologic Unit 03160101, SW¼SW¼ sec.29, T.7 S., R.9 E., 11.5 mi north of Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 21 ft.

DATUM.--Land-surface datum is 359.2 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.30 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.80 ft below land-surface datum, Mar. 5, 1985; lowest measured, 2.19 ft below land-surface datum, Aug. 20, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 5 | 1.80           | MAY 21 | 1.99           | AUG 20 | 2.19           |

342734088222601. Local number 8007. (USCE P6008)

LOCATION.--Lat 34°27'34", long 88°22'26", Hydrologic Unit 03160101, SE¼NE¼ sec.20, T.7 S., R.9 E., 6 mi southwest of Bay Springs Lock.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 60 ft.

DATUM.--Land-surface datum is 319.6 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 4.65 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.10 ft above land-surface datum, Mar. 5, 1985; lowest measured, 0.10 ft above land-surface datum, Mar. 5, 1985.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL |
|-------|----------------|
| MAR 5 | 0.10           |

342705088215001. Local number 8008. (USCE P6018)

LOCATION.--Lat 34°27'05", long 88°21'50", Hydrologic Unit 03160101, SW¼SW¼ sec.21, T.7 S., R.9 E., 6 mi southwest of Bay Springs Lock.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 187 ft.

DATUM.--Land-surface datum is about 440 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.90 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 105.98 ft below land-surface datum, May 21, 1985; lowest measured, 106.40 ft below land-surface datum, Mar. 5, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 5 | 106.40         | MAY 21 | 105.98         | AUG 20 | 106.24         |



## ITAWAMBA COUNTY--Continued

342654088210701. Local number 8009. (USCE P6028)

LOCATION.--Lat 34°26'54", long 88°21'07", Hydrologic Unit 03160101, NW¼NE¼ sec.28, T.7 S., R.9 E., 6 mi southwest of Bay Springs Lock.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 200 ft.

DATUM.--Land-surface is about 450 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.95 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 127.28 ft below land-surface datum, May 21, 1985; lowest measured, 127.85 ft below land-surface datum, Mar. 5, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 5 | 127.85         | MAY 21 | 127.28         | AUG 20 | 127.58         |

342215088275502. Local number D034. (USCE 61B)

LOCATION.--Lat 34°22'15", long 88°27'55", Hydrologic Unit 03160101, NE¼SW¼ sec.21, T.8 S., R.8 E., 7.3 mi northwest of Fulton.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 74 ft, cased to 64 ft.

DATUM.--Land-surface datum is about 300 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.8 ft above land-surface datum.

PERIOD OF RECORD.--January 1976 to Nov. 28, 1984 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.04 ft below land-surface datum, Mar. 10, 1976; lowest measured, 10.25 ft below land-surface datum, Nov. 17, 1982.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| NOV 28 | 5.56           |

342215088275501. Local number D035. (USCE 61A)

LOCATION.--Lat 34°22'15", long 88°27'55", Hydrologic Unit 03160101, NE¼SW¼ sec.2, T.8 S., R.8 E., 7.3 mi northwest of Fulton.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 214 ft, cased to 204 ft.

DATUM.--Land-surface datum is about 300 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 4.3 ft above land-surface datum.

PERIOD OF RECORD.--January 1976 to Nov. 28, 1984 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.03 ft below land-surface datum, May 26, 1976; lowest measured, 43.42 ft below land-surface datum, Aug. 23, 1982.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| NOV 28 | 17.77          |

342122088243301. Local number D039. (USCE CF87)

LOCATION.--Lat 34°21'22", long 88°24'33", Hydrologic Unit 03160101, NW¼SE¼ sec.25, T.8 S., R.8 E., 5.5 mi north of Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 66 ft.

DATUM.--Land-surface is 271.1 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 5.25 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.58 ft below land-surface datum, Aug. 20, 1985; lowest measured, 2.65 ft below land-surface datum, Mar. 5, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 5 | 2.65           | MAY 21 | 1.90           | AUG 20 | 1.58           |



## ITAWAMBA COUNTY--Continued

341918088243001. Local number D040. (USCE GW110)

LOCATION.--Lat 34°19'18", long 88°24'30", Hydrologic Unit 03160101, NE¼NE¼ sec. 12, T.9 S., R.8 E., 3.8 mi north of Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 23 ft.

DATUM.--Land-surface datum is 282.7 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.25 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.95 ft below land-surface datum, Mar. 5, 1985; lowest measured, 2.64 ft below land-surface datum, May 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 5 | 0.95           | MAY 21 | 2.64           | AUG 20 | 2.33           |

342138088244601. Local number D041. (USCE GW112A)

LOCATION.--Lat 34°21'38", long 88°24'46", Hydrologic Unit 03160101, NE¼NW¼ sec.25, T.8 S., R.8 E., 6 mi north of Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 28 ft.

DATUM.--Land-surface datum is about 275 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 5.20 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.80 ft below land-surface datum, Mar. 5, 1985; lowest measured, 4.90 ft below land-surface datum, May 2, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|-------|----------------|--------|----------------|
| MAR 5 | 0.80           | MAY 2 | 4.90           | AUG 20 | 4.54           |

342334088261201. Local number D042. (USCE GW115)

LOCATION.--Lat 34°23'34", long 88°26'12", Hydrologic Unit 03160101, SE¼SE¼ sec.10, T.8 S., R.8 E., 8.5 mi northwest of Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 29 ft.

DATUM.--Land-surface datum is 299.2 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.7 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.20 ft below land-surface datum, March 6, 1985; lowest measured, 7.40 ft below land-surface datum, Aug. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 6 | 3.20           | MAY 24 | 4.57           | AUG 21 | 7.40           |

342437088234201. Local number D043. (USCE GW116)

LOCATION.--Lat 34°24'37", long 88°23'42", Hydrologic Unit 03160101, SE¼SW¼ sec.6 T.8 S., R.9 E., 9.75 mi north of Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 30 ft.

DATUM.--Land-surface datum is 333.5 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.6 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.00 ft below land-surface datum, Mar. 5, 1985; lowest measured, 22.14 ft below land-surface datum, Aug. 20, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|-------|----------------|--------|----------------|
| MAR 5 | 22.00          | MAY 2 | 22.13          | AUG 20 | 22.14          |

## ITAWAMBA COUNTY--Continued

342434088242801. Local number D044. (USCE GW116A)

LOCATION.--Lat 34°24'34", long 88°24'28", Hydrologic Unit 03160101, SW¼SE¼ sec.1, T.8 S., R.8 E., 9 mi north of Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 25 ft.

DATUM.--Land-surface datum is about 285 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 1.75 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.75 ft below land-surface datum, Mar. 6, 1985; lowest measured, 1.14 ft below land-surface datum, Aug. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|-------|-------------|--------|-------------|--------|-------------|
| MAR 6 | 0.75        | MAY 24 | 0.92        | AUG 21 | 1.14        |

342058088243601. Local number D045. (USCE P500B)

LOCATION.--Lat 34°20'58", long 88°24'36", Hydrologic Unit 03160101, SW¼SE¼ sec.25, T.8 S., R.8 E., 5.25 mi north of Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 124 ft.

DATUM.--Land-surface datum is about 290 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 4.15 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.35 ft above land-surface datum, Mar. 5, 1985; lowest measured, 10.35 ft above land-surface datum, Aug. 25, 1985.

## WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER LEVEL | DATE   | WATER LEVEL | DATE    | WATER LEVEL |
|-------|-------------|--------|-------------|---------|-------------|
| MAR 5 | 11.37       | MAY 21 | 10.65       | AUG. 25 | 10.35       |

342151088240401. Local number D046. (USCE P501B)

LOCATION.--Lat 34°21'51", long 88°24'04", Hydrologic Unit 03160101, SE¼SE¼ sec.24, T.8 S., R.8 E., 6.75 mi north of Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 152 ft.

DATUM.--Land-surface datum is 308.5 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.05 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.98 ft below land-surface datum, Aug. 20, 1985; lowest measured, 7.49 ft below land-surface datum, Mar. 5, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|-------|-------------|--------|-------------|--------|-------------|
| MAR 5 | 7.49        | MAY 21 | 7.06        | AUG 20 | 6.98        |

342301088230101. Local number E005. (USCE 65A)

LOCATION.--Lat 34°23'01", long 88°23'01", Hydrologic Unit 03160101, NE¼SE¼ sec.18, T.8 S., R.9 E., 7.1 mi north of Fulton.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 130 ft, cased to 110 ft.

DATUM.--Land-surface datum is about 325 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 5.5 ft above land-surface datum.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--September 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level indicated, flowing &gt;5 ft above land-surface datum, many days in April, September and October 1978; lowest recorded, 47.42 ft below land-surface datum, Aug. 16, 1982.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## LOWEST LEVELS

| DAY         | OCT  | NOV   | DEC   | JAN   | FEB    | MAR        | APR | MAY   | JUN    | JUL | AUG | SEP |
|-------------|------|-------|-------|-------|--------|------------|-----|-------|--------|-----|-----|-----|
| 5           |      | ---   | -3.11 | -1.19 | -0.26  | .20        | .54 | .85   | .74    | .78 | .79 | .86 |
| 10          |      | ---   | -2.45 | -0.98 | -0.18  | .25        | .45 | .90   | .73    | .72 | .79 | .85 |
| 15          |      | ---   | -2.22 | -0.80 | .08    | .30        | .58 | .87   | .74    | .68 | .72 | .77 |
| 20          |      | ---   | -1.83 | -0.57 | .08    | .34        | .58 | .87   | .77    | .66 | .84 | .75 |
| 25          |      | ---   | -1.69 | -0.49 | .17    | .40        | .80 | .84   | .75    | .71 | .85 | .79 |
| EOM         |      | -3.63 | -1.46 | -0.42 | .18    | .48        | .79 | .84   | .78    | .78 | .85 | .75 |
| WTR YR 1985 | MEAN | .15   | HIGH  | .92   | MAY 13 | AND OTHERS | LOW | -3.74 | NOV 29 |     |     |     |

## GROUND-WATER LEVELS IN THE TENNESSEE-TOMBIGBEE STUDY AREA

## ITAWAMBA COUNTY--Continued

342311088222501. Local number E009. (USCE GW113)

LOCATION.--Lat 34°23'11", long 88°22'25", Hydrologic Unit 03160101, SW¼NE¼ sec.17, T.8 S., R.9 E., 8 mi northeast of Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 26 ft.

DATUM.--Land-surface datum is 329.5 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.95 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.99 ft below land-surface datum, Mar. 5, 1985; lowest measured, 15.95 ft below land-surface datum, Aug. 20, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 5 | 14.99          | MAY 21 | 15.38          | AUG 20 | 15.95          |

342301088230201. Local number E010. (USCE GW114)

LOCATION.--Lat 34°23'01", long 88°23'02", Hydrologic Unit 03160101, NE¼SE¼ sec.18, T.8 S., R.9 E., 7.75 mi northeast of Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 12 ft.

DATUM.--Land-surface datum is 311.7 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.65 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.75 ft below land-surface datum, Mar. 5, 1985; lowest measured, 5.24 ft below land-surface datum, Aug. 20, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 5 | 3.75           | MAY 21 | 4.30           | AUG 20 | 5.24           |

342137088231801. Local number E011 (USCE P5038)

LOCATION.--Lat 34°21'37", long 88°23'18", Hydrologic Unit 03160101, NW¼NE¼ sec.30, T.8 S., R.9 E., 6.25 mi northeast of Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 221 ft.

DATUM.--Land-surface datum is about 420 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 1.85 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 98.08 ft below land-surface datum, May 21, 1985; lowest measured, 98.68 ft below land-surface datum, Aug. 20, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 5 | 98.65          | MAY 21 | 98.08          | AUG 20 | 98.68          |

341610088264801. Local number G065. (USCE 67A)

LOCATION.--Lat 34°16'10", long 88°26'48", Hydrologic Unit 03160101, SW¼SE¼ sec.27, T.9 S., R.8 E., 2 mi west of Fulton.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 179 ft, cased to 169 ft.

DATUM.--Land-surface datum is about 270 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.4 ft above land-surface datum.

PERIOD OF RECORD.--January 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.63 ft above land-surface datum, May 17, 1979; lowest measured, 23.21 ft below land-surface datum, Feb. 10, 1982.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 29 | 7.89           | JAN 30 | 5.73           | MAY 24 | 4.30           | AUG 20 | 5.15           |

## ITAWAMBA COUNTY--Continued

341610088264802. Local number G066. (USCE 67B)

LOCATION.--Lat 34°16'10", long 88°26'48", Hydrologic Unit 03160101, SW¼SE¼ sec.27, T.9 S., R.8 E., 2 mi west of Fulton.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 71 ft, cased to 61 ft.

DATUM.--Land-surface datum is about 270 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.4 ft above land-surface datum.

PERIOD OF RECORD.--January 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.42 ft below land-surface datum, May 17, 1979, lowest measured, 19.62 ft below land-surface datum, Oct. 24, 1978.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| NOV 29 | 15.11       | JAN 30 | 16.11       | MAY 24 | 17.24       | AUG 20 | 17.94       |

341604088244601. Local number G067. (USCE GW106B)

LOCATION.--Lat 34°16'04", long 88°24'46", Hydrologic Unit 03160101, SW¼SE¼ sec.25, T.9 S., R.8 E., in Fulton.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 175 ft, cased to 165 ft.

DATUM.--Land-surface datum is about 284 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.80 ft above land-surface datum.

PERIOD OF RECORD.--June 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.17 ft below land-surface datum, June 8, 1978; lowest measured, 44.16 ft below land-surface datum, Oct. 2, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY         | OCT   | NOV   | DEC | JAN   | FEB   | MAR    | APR   | MAY   | JUN   | JUL   | AUG | SEP |
|-------------|-------|-------|-----|-------|-------|--------|-------|-------|-------|-------|-----|-----|
| 5           | 25.55 | 25.55 |     | ---   | 16.00 | 15.97  | 15.34 | ---   | 15.00 | 15.18 |     |     |
| 10          | 25.44 | 25.53 |     | ---   | 16.05 | 15.87  | 15.56 | ---   | 15.54 | 15.16 |     |     |
| 15          | 25.49 | 25.53 |     | ---   | 15.82 | 15.75  | 14.90 | ---   | 15.66 | 15.76 |     |     |
| 20          | 25.45 | 25.53 |     | ---   | 16.00 | 15.32  | 15.76 | ---   | 15.33 | 16.04 |     |     |
| 25          | 25.46 | ---   |     | ---   | 15.92 | 15.50  | 15.51 | 14.56 | 15.31 | 15.52 |     |     |
| EOM         | 25.51 | ---   |     | 16.02 | 15.93 | 15.17  | ---   | 14.69 | 15.54 | ---   |     |     |
| WTR YR 1985 | MEAN  | 17.95 |     | HIGH  | 14.11 | MAY 27 |       | LOW   | 25.58 | OCT 2 |     |     |

341604088244602. Local number G068. (USCE GW106A)

LOCATION.--Lat 34°16'04", long 88°24'46", Hydrologic Unit 03160101, SW¼SE¼ sec.25, T.9 S., R.8 E., in Fulton.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 2 in, depth 10 ft, cased to 5 ft.

DATUM.--Land-surface datum is about 290 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.8 ft above land-surface datum.

PERIOD OF RECORD.--June 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.21 ft above land-surface datum, June 8, 1978; lowest measured, 0.95 ft below land-surface datum, Jan. 29, 1985.

## WATER LEVEL, IN FEET ABOVE AND BELOW (-) LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| NOV 29 | 1.35        | JAN 29 | -0.95       | MAY 20 | -0.48       | AUG 28 | -0.23       |

341621088255001. Local number G070. (USCE GW104C)

LOCATION.--Lat 34°16'21", long 88°25'50", Hydrologic Unit 03160101, NW¼NW¼ sec.26, T.9 S., R.8 E., 1.5 mi west of Fulton.

Owner: U. S. Army, Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 2 in, depth 24 ft, cased to 19 ft.

DATUM.--Land-surface datum is about 260 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.2 ft above land-surface datum.

PERIOD OF RECORD.--February 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.60 ft above land-surface datum, Jan 30, 1985; lowest measured, 4.78 ft below land-surface datum, Aug. 28, 1984.

## WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| NOV 29 | 1.05        | JAN 30 | 1.60        | MAY 24 | 1.25        | AUG 19 | 1.21        |



## ITAWAMBA COUNTY--Continued

341627088250201. Local number G072. (USCE C38-73)

LOCATION.--Lat 34°16'27", long 88°25'02", Hydrologic Unit 03160101, SW¼NW¼ sec.25, T.9 S., R.8 E., 0.75 mi west of center of Fulton on U. S. Highway 78.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 33 ft.

DATUM.--Land-surface datum is 263.2 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.9 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.46 ft above land-surface datum, Mar. 5, 1985; lowest measured, 0.45 ft below land-surface datum, Aug. 25, 1985.

WATER LEVEL, IN FEET ABOVE AND BELOW (-) LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 5 | 0.46           | MAY 21 | 0.23           | AUG 25 | -0.45          |

341527088250001. Local number G074. (USCE GW104A)

LOCATION.--Lat 34°15'27", long 88°25'00", Hydrologic Unit 03160101, NE¼SW¼ sec.36, T.9 S., R.8 E., 1 mi south of U. S. Highway 78 in Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 88 ft.

DATUM.--Land-surface datum is about 290 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.12 ft below land-surface datum, May 20, 1985; lowest measured, 25.80 ft below land-surface datum, Mar. 5, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 5 | 25.80          | MAY 20 | 22.12          | AUG 25 | 24.69          |

341527088250002. Local number G075. (USCE GW104B)

LOCATION.--Lat 34°15'27", long 88°25'00", Hydrologic Unit 03160101, NE¼SW¼ sec.36, T.9 S., R.8 E., 1.5 mi south of old U. S. Highway 78 in Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 138 ft.

DATUM.--Land-surface datum is about 290 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.1 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.21 ft below land-surface datum, May 21, 1985; lowest measured, 22.00 ft below land-surface datum, Mar. 5, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 5 | 22.00          | MAY 21 | 19.21          | AUG 25 | 21.15          |

341518088263001. Local number G076. (USCE GW105)

LOCATION.--Lat 34°15'18", long 88°26'30", Hydrologic Unit 03160101, NE¼SE¼ sec.34, T.9 S., R.8 E., 2.2 mi southwest of Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 29 ft.

DATUM.--Land-surface datum is 254.6 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 1.8 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest level measured, 1.02 ft below land-surface datum, May 24, 1985; lowest measured, 4.92 ft below land-surface datum, Aug. 19, 1985.

WATER LEVEL, IN FEET ABOVE AND BELOW (-) LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 7 | 0.10           | MAY 24 | -1.25          | AUG 19 | -4.92          |



## ITAWAMBA COUNTY--Continued

341602088265001. Local number G077. (USCE GW107)

LOCATION.--Lat 34°16'02", long 88°26'50", Hydrologic Unit 03160101, SW¼SE¼ sec.27, T.9 S., R.8 E., 2.3 mi west of Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 31 ft.

DATUM.--Land-surface datum is 273.3 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 4.05 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.09 ft below land-surface datum, Mar. 6, 1985; lowest measured, 17.50 ft below land-surface datum, Aug. 20, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 6 | 15.09          | MAY 24 | 16.18          | AUG 20 | 17.50          |

341759088245401. Local number G078. (USCE GW108)

LOCATION.--Lat 34°17'59", long 88°24'54", Hydrologic Unit 03160101, NE¼SW¼ sec.13, T.9 S., R.8 E., 2.25 mi north of Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 14 ft.

DATUM.--Land-surface datum is 284.5 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.30 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.58 ft below land-surface datum, Mar. 5, 1985; lowest measured, 3.41 ft below land-surface datum, Aug. 20, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 5 | 1.58           | MAY 20 | 2.72           | AUG 20 | 3.41           |

341759088245402. Local number G079. (USCE GW108B)

LOCATION.--Lat 34°17'59", long 88°24'54", Hydrologic Unit 03160101, NE¼SW¼ sec.13, T.9 S., R.8 E., 2.25 mi north of Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 150 ft.

DATUM.--Land-surface datum is 284.5 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.5 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.18 ft below land-surface datum, May 20, 1985; lowest measured, 3.41 ft below land-surface datum, Aug. 20, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 5 | 2.32           | MAY 20 | 1.18           | AUG 20 | 3.41           |

341754088272001. Local number G080. (USCE GW109)

LOCATION.--Lat 34°17'54", long 88°27'20", Hydrologic Unit 03160101, NW¼SW¼ sec.15, T.9 S., R.8 E., 3.2 mi northwest of Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 24 ft.

DATUM.--Land-surface datum is 278.2 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 4.1 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.33 ft below land-surface datum, Mar. 6, 1985; lowest measured, 3.97 ft below land-surface datum, Aug. 19, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 6 | 2.33           | MAY 24 | 3.08           | AUG 19 | 3.97           |

## ITAWAMBA COUNTY--continued

341754088272002. Local number G081. (USCE GW109B)

LOCATION.--Lat 34°17'54", long 88°27'20", Hydrologic Unit 03160101, NW¼SW¼ sec.15, T.9 S., R.8 E., 3 mi northwest of Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 198 ft.

DATUM.--Land-surface datum is 278.2 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 5.6 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.75 ft above land-surface datum, Mar. 6, 1985; lowest measured, 2.00 ft above land-surface datum, May 24, 1985.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 6 | 3.75           | MAY 24 | 2.00           | AUG 20 | 2.28           |

341934088260101. Local number G082. (USCE GW111)

LOCATION.--Lat 34°19'34", long 88°26'01", Hydrologic Unit 03160101, SE¼SW¼ sec.2, T.9 S., R.8 E., 4 mi northwest of Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 35 ft.

DATUM.--Land-surface datum is 270.9 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 1.5 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.30 ft below land-surface datum, Mar. 6, 1985; lowest measured, 6.10 ft below land-surface datum, May 24, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 6 | 5.30           | MAY 24 | 6.10           | AUG 20 | 6.07           |

341948088271301. Local number G083. (USCE GW112)

LOCATION.--Lat 34°19'48", long 88°27'13", Hydrologic Unit 03160101, NW¼SW¼ sec.3, T.9 S., R.8 E., 4.7 mi northwest of Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 24 ft.

DATUM.--Land-surface datum is 292.9 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.1 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.60 ft below land-surface datum, Mar. 6, 1985; lowest measured, 1.82 ft below land-surface datum, Aug. 20, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 6 | 0.60           | MAY 24 | 1.60           | AUG 20 | 1.82           |

341527088245401. Local number G084. (USCE GW104)

LOCATION.--Lat 34°15'27", long 88°24'54", Hydrologic Unit 03160101, SW¼NW¼ sec.36, T.9 S., R.8 E., 1.2 mi south of U. S. Highway 78 in Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 2.0 in, depth 26 ft.

DATUM.--Land-surface datum is about 240 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 2.0 in pipe, 2.15 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.14 ft below land-surface datum, Mar. 5, 1985; lowest measured, 9.18 ft below land-surface datum, Aug. 25, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 5 | 5.14           | MAY 21 | 7.04           | AUG 25 | 9.18           |

## ITAWAMBA COUNTY--Continued

341221088244101. Local number K039. (USCE 71A)

LOCATION.--Lat 34°14'25", long 88°19'31", Hydrologic Unit 03160101, NE¼SW¼ sec.2, T.10 S., R.9 E., 4.6 mi southwest of Fulton.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 170 ft, cased to 150 ft.

DATUM.--Land-surface datum is about 273 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.0 ft above land-surface datum.

PERIOD OF RECORD.--July 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.24 ft below land-surface datum, Mar. 10, 1976; lowest measured, 17.49 ft below land-surface datum, Nov. 17, 1981.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| NOV 29 | 11.14       | JAN 30 | 9.62        | MAY 24 | 9.01        | AUG 19 | 10.46       |

341215088242801. Local number K041. (USCE GW100)

LOCATION.--Lat 34°12'15", long 88°24'28", Hydrologic Unit 03160101, NE¼NE¼ sec.24, T.10 S., R.8 E., 3.1 mi south of U. S. Highway 78 at Peppertown.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 21 ft.

DATUM.--Land-surface datum is 269.2 ft above National Geodetic Vertical Datum of 1929. Measuring point: No measurement made in 1985.

NOTE: No water level measurements made in water year 1985.

341356088243601. Local number K042. (USCE BF179-75)

LOCATION.--Lat 34°13'56", long 88°24'36", Hydrologic Unit 03160101, sec.12, T.8 E., R.10 S., 3 mi south of Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 2.0 in, depth 46 ft.

DATUM.--Land-surface datum is about 250 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 2.0 in pipe, 3.15 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.35 ft above land-surface datum, May 21, 1985; lowest measured, 5.70 ft above land-surface datum, Aug. 25, 1985.

## WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|-------|-------------|--------|-------------|--------|-------------|
| MAR 5 | 7.19        | MAY 21 | 7.35        | AUG 25 | 5.70        |

341232088225302. Local number L014. (USCE 74A)

LOCATION.--Lat 34°12'32", long 88°22'53", Hydrologic Unit 03160101, SW¼SW¼ sec.17, T.10 S., R.9 E., 4.3 mi south of Fulton.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 150 ft, cased to 130 ft.

DATUM.--Land-surface datum is about 270 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.5 ft above land-surface datum.

PERIOD OF RECORD.--July 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.63 ft below land-surface datum, Mar. 14, 1975; lowest recorded 24.04 ft below land-surface datum, Oct. 20, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY              | OCT | NOV   | DEC   | JAN   | FEB    | MAR   | APR   | MAY    | JUN | JUL | AUG   | SEP   |
|------------------|-----|-------|-------|-------|--------|-------|-------|--------|-----|-----|-------|-------|
| 5                |     | ---   | 17.59 | 16.60 | 16.02  | 15.87 | 15.67 | 15.46  |     |     | ---   | 17.17 |
| 10               |     | ---   | 17.43 | 16.48 | 15.84  | 15.88 | 15.84 | 15.35  |     |     | ---   | 17.16 |
| 15               |     | ---   | 17.36 | 16.44 | 15.58  | 15.93 | 15.79 | 15.44  |     |     | ---   | 17.35 |
| 20               |     | ---   | 17.16 | 16.33 | 15.75  | 15.95 | 15.93 | 15.60  |     |     | ---   | 17.40 |
| 25               |     | ---   | 17.04 | ---   | 15.70  | 15.87 | 15.86 | 15.67  |     |     | ---   | 17.47 |
| EOM              |     | 17.64 | 16.78 | 16.19 | 15.69  | 15.78 | 15.82 | ---    |     |     | 17.16 | 17.53 |
| WTR YR 1985 MEAN |     | 16.33 | HIGH  | 15.34 | MAY 11 | LOW   | 17.80 | NOV 29 |     |     |       |       |

## GROUND-WATER LEVELS IN THE TENNESSEE-TOMBIGBEE STUDY AREA

## ITAWAMBA COUNTY--Continued

341232088222801. Local number L016. (USCE 75A)

LOCATION.--Lat 34°12'32", long 88°22'28", Hydrologic Unit 03160101, SW¼SE¼ sec.17, T.10 S., R.9 E., 4.8 mi south-east of Fulton.

Owner: U.S. Army, Corps of Engineers

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 144 ft, cased to 124 ft.

DATUM.--Land-surface datum is about 300 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.2 ft above land-surface datum.

PERIOD OF RECORD.--July 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.12 ft below land-surface datum, Apr. 25, 1973; lowest measured, 33.49 ft below land-surface datum, Nov. 17, 1981.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| NOV 28 | 25.34       | JAN 29 | 25.85       | MAY 20 | 25.21       | AUG 28 | 26.88       |

341235088233801. Local number L017. (USCE 72A)

LOCATION.--Lat 34°12'35", long 88°23'38", Hydrologic Unit 03160101, NW¼SE¼ sec.18, T.10 S., R.9 E., 4.2 mi south of Fulton.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused artesian wells, diameter 4 in, depth 21 ft, cased to 16 ft.

DATUM.--Land-surface datum is about 249 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 4.6 ft.

PERIOD OF RECORD.--September 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.0 ft above land-surface datum, Feb. 9, 1975; lowest measured, 5.01 ft below land-surface datum, Oct. 24, 1978.

## WATER LEVEL, IN FEET ABOVE AND BELOW (-) AND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| DEC 12 | 0.71        | JAN 30 | 0.83        | MAY 24 | 0.54        | AUG 19 | -0.98       |

NOTE: Well inaccessible during high river stages.

341232088225301. Local number L019. (USCE 74B)

LOCATION.--Lat 34°12'32", long 88°22'53", Hydrologic Unit 03160101, SW¼SW¼ sec.17, T.10 S., R.9 E., 4.3 mi south of Fulton.

Owner: Sarge Benson.

AQUIFER.--Terraces, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS.--Dug unused water-table well, diameter 24 in, depth 16 ft, cased to 16 ft.

DATUM.--Land-surface datum is about 270 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--January 1973 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.48 ft below land-surface datum, Jan. 23, 1973; lowest measured, 17.81 ft below land-surface datum, Nov. 28, 1984.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|
| NOV 28 | 17.81       | JAN 29 | 16.24       | MAY 20 | 5.74        |

341151088231301. Local number L021. (USCE 8F170-75)

LOCATION.--Lat 34°11'51", long 88°23'13", Hydrologic Unit 03160101, NE¼SE¼ sec.19, T.10 S., R.9 E., 4 mi south of Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 67 ft.

DATUM.--Land-surface datum is 247.5 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 5.0 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.98 ft above land-surface datum, May 20, 1985; lowest measured, 3.35 ft above land-surface datum, Mar. 5, 1985.

## WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|-------|-------------|--------|-------------|--------|-------------|
| MAR 5 | 3.35        | MAY 20 | 4.98        | AUG 25 | 4.86        |



## ITAWAMBA COUNTY--Continued

341233088234701. Local number L022. (USCE BF173-75)

LOCATION.--Lat 34°12'33", long 88°23'47", Hydrologic Unit 03160101, NE¼SE¼ sec.18, T.10 S., R.9 E., 4 mi south of Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 51 ft.

DATUM.--Land-surface datum is 252.2 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.3 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.27 ft above land-surface datum, May 20, 1985; lowest measured, 0.20 ft below land-surface datum, Mar. 5, 1985.

WATER LEVEL, IN FEET ABOVE AND BELOW (-) LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 5 | -0.20          | MAY 20 | 3.27           | AUG 25 | 1.75           |

341230088223201. Local number L023. (USCE GW99)

LOCATION.--Lat 34°12'30", long 88°22'32", Hydrologic Unit 03160101, SW¼SE¼ sec.17, T.10 S., R.9 E., 5 mi south of Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 30 ft.

DATUM.--Land-surface datum is 282.8 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.25 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.38 ft below land-surface datum, Mar. 4, 1985; lowest measured, 5.56 ft below land-surface datum, Aug. 25, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 4 | 2.38           | MAY 20 | 2.98           | AUG 25 | 5.56           |

341340088234101. Local number L024. (USCE GW100A)

LOCATION.--Lat 34°13'40", long 88°23'41", Hydrologic Unit 03160101, NW¼NW¼ sec.18, T.10 S., R.9 E., 3.75 mi south of Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 32 ft.

DATUM.--Land-surface datum is about 255 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.2 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.48 ft below land-surface datum, Mar. 4, 1985; lowest measured, 9.00 ft below land-surface datum, Aug. 25, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 4 | 6.48           | MAY 20 | 7.54           | AUG 25 | 9.00           |

341417088234601. Local number L025. (USCE GW101)

LOCATION.--Lat 34°14'17", long 88°23'46", Hydrologic Unit 03160101, SE¼SW¼ sec.6, T.10 S., R.9 E., 2.5 mi southeast of Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 21 ft.

DATUM.--Land-surface datum is 304.8 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.5 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.30 ft below land-surface datum, Mar. 4, 1985; lowest measured, 3.77 ft below land-surface datum, Aug. 25, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 4 | 3.30           | MAY 20 | 3.69           | AUG 25 | 3.77           |



## ITAWAMBA COUNTY--Continued

341412088241601. Local number L026. (USCE GW102)

LOCATION.--Lat 34°14'12", long 88°24'16", Hydrologic Unit 03160101, SE¼SE¼ sec.1, T.10 S., R.8 E., 2.5 mi south of Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 21 ft.

DATUM.--Land-surface datum is 277.1 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 4.55 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.25 ft below land-surface datum, Mar. 4, 1985; lowest measured, 5.65 ft below land-surface datum, Aug. 25, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 4 | 3.25           | MAY 20 | 4.86           | AUG 25 | 5.65           |

340544088255201. Local number N028. (USCE 81A)

LOCATION.--Lat 34°05'44", long 88°25'52", Hydrologic Unit 03160101, NE¼SW¼ sec.26, T.11 S., R.8 E., 12.3 mi south of Fulton.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 180 ft, cased to 170 ft.

DATUM.--Land-surface datum is about 246 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.4 ft above land-surface datum.

PERIOD OF RECORD.--August 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.85 ft below land-surface datum, Mar. 10, 1976; lowest measured, 22.60 ft below land-surface datum, Nov. 5, 1980.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 29 | 12.01          | JAN 30 | 10.69          | MAY 24 | 10.46          | AUG 19 | 11.71          |

340649088252401. Local number N029. (USCE GW95A)

LOCATION.--Lat 34°06'49", long 88°25'24", Hydrologic Unit 03160101, SE¼NE¼ sec.23, T.11 S., R.8 E., 3.5 mi north-west of Smithville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 35 ft.

DATUM.--Land-surface datum is 242.4 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.4 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.50 ft below land-surface datum, Mar. 7, 1985; lowest measured, 4.35 ft below land-surface datum, Aug. 19, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 7 | 3.50           | MAY 24 | 4.29           | AUG 19 | 4.35           |

340056088282901. Local number 0010. (USCE GW94)

LOCATION.--Lat 34°00'56", long 88°28'29", Hydrologic Unit 03160101, SE¼SE¼ sec.20, T.12 S., R.8 E., 1.5 mi north of Smithville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 23 ft.

DATUM.--Land-surface datum is about 278 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.7 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.40 ft below land-surface datum, May 20, 1985; lowest measured, dry, Aug. 28, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 4 | 18.66          | MAY 20 | 17.40          | AUG 28 | DRY            |

## ITAWAMBA COUNTY--Continued

340705088225801. Local number 0011. (USCE GW95)

LOCATION.--Lat 34°07'05", long 88°22'58", Hydrologic Unit 03160101, SW¼SW¼ sec.17, T.11 S., R.9 E., 3.0 mi north of Smithville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 29 ft.

DATUM.--Land-surface datum is 325.4 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 4.35 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.11 ft below land-surface datum, May 20, 1985; lowest measured, 20.93 ft below land-surface datum, Aug. 28, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 4 | 20.45          | MAY 20 | 20.11          | AUG 28 | 20.93          |

340724088232301. Local number 0012. (USCE GW96)

LOCATION.--Lat 34°07'24", long 88°23'23", Hydrologic Unit 03160101, NW¼SE¼ sec.18, T.11 S., R.9 E., 4 mi north of Smithville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 23 ft.

DATUM.--Land-surface datum is 262.9 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 1.9 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.37 ft below land-surface datum, Mar. 4, 1985; lowest measured, 12.97 ft below land-surface datum, Aug. 28, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 4 | 10.37          | MAY 20 | 12.01          | AUG 28 | 12.97          |

340017088270201. Local number 0013. (USCE GW96A)

LOCATION.--Lat 34°00'17", long 88°27'02", Hydrologic Unit 03160101, SW¼NW¼ sec.20, T.12 S., R.18 W., 4.4 mi north of Smithville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 24 ft.

DATUM.--Land-surface datum is 238.6 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 4.15 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.35 ft below land-surface datum, Mar. 7, 1985; lowest measured, 5.04 ft below land-surface datum, Aug. 19, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 7 | 3.35           | MAY 24 | 3.69           | AUG 19 | 5.04           |

341746088260401. Local number 0014. (USCE GW97)

LOCATION.--Lat 34°17'46", long 88°26'04", Hydrologic Unit 03160101, SE¼SW¼ sec.14, T.9 S., R.8 E., 6.5 mi south of Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 60 ft.

DATUM.--Land-surface datum is 393.9 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.65 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 4 | DRY            | MAY 20 | DRY            | AUG 28 | DRY            |

## GROUND-WATER LEVELS IN THE TENNESSEE-TOMBIGBEE STUDY AREA

## ITAWAMBA COUNTY--Continued

340941088240901. Local number 0015. (USCE GW98)

LOCATION.--Lat 34°09'41", long 88°24'09", Hydrologic Unit 03160101, SW¼SW¼ sec.31, T.10 S., R.9 E., 4.75 mi south of Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 23 ft.

DATUM.--Land-surface datum is 267.2 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.35 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.88 ft below land-surface datum, Mar. 7, 1985; lowest measured, 5.27 ft below land-surface datum, Aug. 19, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|-------|-------------|--------|-------------|--------|-------------|
| MAR 7 | 1.88        | MAY 24 | 3.07        | AUG 19 | 5.27        |

340848088224901. Local number 0016. (USCE BF165-75)

LOCATION.--Lat 34°08'48", long 88°22'49", Hydrologic Unit 03160101, SW¼SW¼ sec.5, T.11 S., R.9 E., 10.5 mi south of Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 2.0 in, depth 50 ft.

DATUM.--Land-surface datum is about 250 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 2.0 in pipe, 7.65 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.66 ft above land-surface datum, May 20, 1985; lowest measured, 3.52 ft above land-surface datum, Aug. 28, 1985.

## WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|-------|-------------|--------|-------------|--------|-------------|
| MAR 4 | 5.55        | MAY 20 | 5.66        | AUG 28 | 3.52        |

340849088230501. Local number 0017. (USCE B54-73)

LOCATION.--Lat 34°08'49", long 88°23'05", Hydrologic Unit 03160101, SW¼SW¼ sec.5, T.11 S., R.9 E., 10.5 mi south of Fulton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 2.0 in, depth 27 ft.

DATUM.--Land-surface datum is about 240 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 2.0 in pipe, 5.15 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.95 ft above land-surface datum, Mar. 4, 1985; lowest measured, 1.64 ft above land-surface datum, Aug. 28, 1985.

## WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|-------|-------------|--------|-------------|--------|-------------|
| MAR 4 | 1.95        | MAY 20 | 1.82        | AUG 28 | 1.64        |

## LOWNDES COUNTY

333805088291001. Local number A033. (USCE TTM3A)

LOCATION.--Lat 33°38'05", long 88°29'10", Hydrologic Unit 03160101, NW¼NW¼ sec.36, T.16 S., R.19 W., 10 mi north-west of Columbus.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 78 ft.

DATUM.--Land-surface datum is about 182 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 5.0 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.27 ft below land-surface datum, June 9, 1978; lowest measured, 10.73 ft below land-surface datum, Nov. 16, 1981.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| NOV 27 | 9.78        | JAN 29 | 6.28        | MAY 14 | 4.22        | AUG 26 | 8.03        |

## LOWNDES COUNTY--Continued

333805088291002. Local number A034. (USCE TTM38)

LOCATION.--Lat 33°38'05", long 88°29'10", Hydrologic Unit 03160104, NW¼NW¼ sec.36, T.16 S., R.19 W., 10 mi north-west of Columbus.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 31 ft, cased to 21 ft.

DATUM.--Land-surface datum is about 182 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 4.9 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.71 ft below land-surface datum, Apr. 20, 1982; lowest measured 25.91 ft below land-surface datum, Sept. 15, 1983.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| 5   | 7.81 | 8.40 | 4.03 | 1.52 | 1.58 | .86  | 1.24 | 1.13 | 4.00 | 6.03 | 7.25 | 8.14 |
| 10  | 7.93 | 8.48 | 2.48 | 1.70 | 1.57 | 1.33 | 1.51 | 1.42 | 4.51 | 6.27 | 7.36 | 8.26 |
| 15  | 8.02 | 8.60 | 1.43 | 1.30 | 1.44 | 1.75 | 1.85 | 2.02 | 4.99 | 6.49 | 7.48 | 8.40 |
| 20  | 8.12 | 8.63 | 1.63 | 1.33 | 1.57 | 1.43 | 1.48 | 2.44 | 5.38 | 6.68 | 7.63 | 8.54 |
| 25  | 8.19 | 8.51 | 1.52 | .96  | 1.88 | 1.64 | 1.69 | 2.59 | 5.62 | 6.93 | 7.80 | 8.71 |
| EOM | 8.31 | 8.24 | 1.21 | 1.44 | 1.39 | 1.71 | 1.11 | 3.31 | 5.83 | 7.16 | 7.97 | 8.86 |

WTR YR 1984 MEAN 4.52 HIGH .67 DEC 28 LOW 8.86 SEP 30

333821088273201. Local number A038. (USCE GW49)

LOCATION.--Lat 33°38'21", long 88°27'32", Hydrologic Unit 03160103, SW¼SE¼ sec.30, T.16 S., R.18 W., 8 mi north of Columbus.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 35 ft.

DATUM.--Land-surface datum is 181.8 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.65 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.33 ft below land-surface datum, Feb. 12, 1985; lowest measured, 6.78 ft below land-surface datum, Aug. 26, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 12 | 1.33           | MAY 14 | 2.56           | AUG 26 | 6.78           |

333354088270501. Local number C099. (USCE 115A)

LOCATION.--Lat 33°33'54", long 88°27'05", Hydrologic Unit 03160101, SE¼SE¼ sec.19, T.17 S., R.18 W., 7 mi north-west of Columbus.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 84 ft, cased to 74 ft.

DATUM.--Land-surface datum is about 172 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.4 ft above land-surface datum.

PERIOD OF RECORD.--September 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.63 ft below land-surface datum, Mar. 22, 1973; lowest measured, 8.82 ft below land-surface datum, Nov. 16, 1981.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 27 | 5.17           | JAN 28 | 5.32           | MAY 15 | 4.94           | AUG 26 | 6.71           |

333355088282502. Local number C100. (USCE 1148)

LOCATION.--Lat 33°33'55", long 88°28'25", Hydrologic Unit 03160101, SE¼SE¼ sec.24, T.17 S., R.19 W., 5.2 mi north-west of Columbus.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Terraces, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 47 ft, cased to 37 ft.

DATUM.--Land-surface datum is about 170 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 1.0 ft above land-surface datum.

PERIOD OF RECORD.--September 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.82 ft above land-surface datum, Mar. 23, 1973; lowest measured, 10.80 ft below land-surface datum, Oct. 23, 1978.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 27 | 5.17           | JAN 28 | 4.57           | MAY 14 | 4.66           | AUG 26 | 5.89           |



## LOWNDES COUNTY--Continued

333355088282503. Local number C101. (USCE 114C)

LOCATION.--Lat 33°33'55", long 88°28'25", Hydrologic Unit 03160101, SE¼SE¼ sec.24, T.17 S., R.19 W., 5.2 mi northwest of Columbus.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 92 ft, cased to 82 ft.

DATUM.--Land-surface datum is about 170 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.3 ft above land-surface datum.

PERIOD OF RECORD.--September 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.59 ft below land-surface datum, Mar. 23, 1973; lowest measured, 11.61 ft below land-surface datum, Feb. 5, 1981.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 27 | 3.68           | JAN 28 | 8.76           | MAY 14 | 8.46           | AUG 26 | 9.37           |

333354088270502. Local number C102. (USCE 115B)

LOCATION.--Lat 33°33'54", long 88°27'05", Hydrologic Unit 03160101, SE¼SE¼ sec.19, T.17 S., R.18 W., 7 mi northwest of Columbus.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Terraces, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 24 ft, cased to 19 ft.

DATUM.--Land-surface datum is about 172 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.4 ft above land-surface datum.

PERIOD OF RECORD.--September 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.34 ft below land-surface datum, Mar. 22, 1973; lowest measured, 10.57 ft below land-surface datum, Oct. 19, 1972.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 27 | 5.29           | JAN 28 | 2.30           | MAY 14 | 2.75           | AUG 26 | 5.28           |

333307088281801. Local number C130. (USCE GW42)

LOCATION.--Lat 33°33'07", long 88°28'18", Hydrologic Unit 03160105, SE¼SE¼ sec.25, T.18 S., R.19 W.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 32 ft.

DATUM.--Land-surface datum is 168.9 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.20 ft below land-surface datum, Feb. 13, 1985; lowest measured, 3.54 ft below land-surface datum, Aug. 26, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 13 | 1.20           | MAY 14 | 3.07           | AUG 26 | 3.54           |

333609088272801. Local number C131. (USCE GW45)

LOCATION.--Lat 33°36'09", long 88°27'28", Hydrologic Unit 03160101, SW¼NE¼ sec.7, T.17 S., R.19 W., 7.75 mi north of Columbus.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 22 ft.

DATUM.--Land-surface datum is 198.3 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 1.50 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.15 ft below land-surface datum, Feb. 12, 1985; lowest measured, 9.39 ft below land-surface datum, Aug. 26, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 12 | 8.15           | MAY 14 | 8.48           | AUG 26 | 9.39           |



## LOWNDES COUNTY--Continued

332935088282001. Local number F073. (USCE TTM2A)

LOCATION.--Lat 33°29'35", long 88°28'20", Hydrologic Unit 03160101, NE¼NW¼ sec.25, T.19 N., R.17 E., 2.3 mi west of Columbus.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 162 ft, cased to 152 ft.

DATUM.--Land-surface datum is about 160 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 5.8 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.16 ft below land-surface datum, June 4, 1975; lowest measured, 27.64 ft below land-surface datum, Aug. 26, 1980.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 26 | 25.50          | JAN 28 | 24.98          | MAY 13 | 24.69          | AUG 29 | 25.85          |

332935088282002. Local number F074. (USCE TTM2B)

LOCATION.--Lat 33°29'35", long 88°28'20", Hydrologic Unit 03160101, NE¼SW¼ sec.17, T.20 S., R.17 W., 2.3 mi west of Columbus.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 19 ft, cased to 9 ft.

DATUM.--Land-surface datum is about 160 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 5.3 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.14 ft below land-surface datum, Mar. 7, 1983; lowest measured, dry, Feb. 11, 1981.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 26 | 17.41          | JAN 28 | 18.08          | MAY 13 | 16.02          | AUG 28 | 19.86          |

333035088300401. Local number F081. (USCE P2-101)

LOCATION.--Lat 33°30'35", long 88°30'04", Hydrologic Unit 03160101, SE¼ sec.15, T.18 S., R.17 E., 5.5 mi west of center of Columbus.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 140 ft.

DATUM.--Land-surface datum is about 208 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.80 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 61.30 ft below land-surface datum, Feb. 12, 1985; lowest measured, 63.15 ft below land-surface datum, Aug. 29, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 12 | 61.30          | MAY 13 | 62.19          | AUG 29 | 63.15          |

333044088305001. Local number F082. (USCE P2-102)

LOCATION.--Lat 33°30'44", long 88°30'50", Hydrologic Unit 03160101, NW¼SW¼ sec.15, T.18 S., R.17 E., 6.0 mi west of Columbus.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 143 ft.

DATUM.--Land-surface datum is about 204 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.70 ft above land-surface datum.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 143 ft.

DATUM.--Land-surface datum is 204 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.70 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 54.03 ft below land-surface datum, May 13, 1985; lowest measured, 55.26 ft below land-surface datum, Aug. 29, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 12 | 54.08          | MAY 13 | 54.03          | AUG 29 | 55.26          |

## GROUND-WATER LEVELS IN THE TENNESSEE-TOMBIGBEE STUDY AREA

## LOWNDES COUNTY--Continued

333035088300402. Local number F083. (USCE P3-101)

LOCATION.--Lat 33°30'35", long 88°30'04", Hydrologic Unit 03160101, SE¼ sec.15, T.18 S., R.17 E., 5.5 mi west of center of Columbus.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 200 ft.

DATUM.--Land-surface datum is about 208 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.80 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 62.75 below land-surface datum, May 13, 1985; lowest measured, 64.17 ft below land-surface datum, Aug. 29, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 12 | 63.77          | MAY 13 | 62.75          | AUG 29 | 64.17          |

333044088305002. Local number F084. (USCE P3-102)

LOCATION.--Lat 33°30'44", long 88°30'50", Hydrologic Unit 03160101, NW¼SW¼ sec.15, T.18 S., R.17 E., 6 mi west of Columbus.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 236 ft.

DATUM.--Land-surface datum is about 210 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.40 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 59.27 ft below land-surface datum, May 13, 1985; lowest measured, 61.15 ft below land-surface datum, Feb. 12, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 12 | 61.15          | MAY 13 | 59.27          | AUG 29 | 60.55          |

332648088245901. Local number G197. (USCE GW40)

LOCATION.--Lat 33°26'48", long 88°24'59", Hydrologic Unit 03160106, NE¼NE¼ sec.4, T.19 S., R.18 W.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 25 ft.

DATUM.--Land-surface datum is 162.3 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.50 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.91 ft below land-surface datum, Feb. 11, 1985; lowest measured, 15.67 ft below land-surface datum, Aug. 29, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 11 | 12.91          | MAY 13 | 13.87          | AUG 29 | 15.67          |

332647088254801. Local number G198. (USCE GW41)

LOCATION.--Lat 33°26'47", long 88°25'48", Hydrologic Unit 03160106, NW¼NW¼ sec.4, T.19 S., R.18 W.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 28 ft.

DATUM.--Land-surface datum is 160.4 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.35 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.48 ft below land-surface datum, Feb. 11, 1985; lowest measured, 13.76 ft below land-surface datum, Aug. 29, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 11 | 11.48          | MAY 13 | 12.19          | AUG 29 | 13.76          |

## LOWNDES COUNTY--Continued

333140088273101. Local number G199. (USCE GW42A)

LOCATION.--Lat 33°31'40", long 88°27'31", Hydrologic Unit 03160105, sec.6, T.18 S., R.19 W.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 37 ft.

DATUM.--Land-surface datum is about 160 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.65 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.90 ft below land-surface datum, May 14, 1985; lowest measured, 2.32 ft below land-surface datum, Aug. 26, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|
| FEB 13 | 1.93        | MAY 14 | 1.90        | AUG 27 | 2.32        |

332235088221901. Local number L051. (USCE GW35)

LOCATION.--Lat 33°22'35", long 88°22'19", Hydrologic Unit 03160106, sec.25, T.19 S., R.18 W.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 22 ft.

DATUM.--Land-surface datum is 152.3 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.65 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.55 ft below land-surface datum, Feb. 11, 1985; lowest measured, 5.09 ft below land-surface datum, Aug. 29, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|
| FEB 11 | 0.55        | MAY 13 | 2.72        | AUG 29 | 5.09        |

332328088222401. Local number L052. (USCE GW36)

LOCATION.--Lat 33°23'28", long 88°22'24", Hydrologic Unit 03160106, sec.24, T.19 S., R.18 W.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 32 ft.

DATUM.--Land-surface datum is 179.0 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.10 ft below land-surface datum, Feb. 11, 1985; lowest measured, 18.83 ft below land-surface datum, Aug. 29, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|
| FEB 11 | 11.10       | MAY 13 | 17.13       | AUG 29 | 18.83       |

332448088262201. Local number L053. (USCE GW38)

LOCATION.--Lat 33°24'48", long 88°26'22", Hydrologic Unit 03160101, SE¼NW¼ sec.20, T.18 N., R.18 W.,

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 40 ft.

DATUM.--Land-surface datum is about 160 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.80 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.30 ft below land-surface datum, Feb. 12, 1985; lowest measured, 5.84 ft below land-surface datum, Aug. 24, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|
| FEB 12 | 2.30        | MAY 13 | 2.89        | AUG 29 | 5.84        |

## LOWNDES COUNTY--Continued

332520088263901. Local number L054. (USCE GW39)

LOCATION.--Lat 33°25'20", long 88°26'39", Hydrologic Unit 03160101, SW¼ sec.17, T.18 N., R.18 W.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 32 ft.

DATUM.--Land-surface datum is about 160 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.35 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.70 ft below land-surface datum, Feb. 12, 1985; lowest measured, 15.50 ft below land-surface datum, Aug. 29, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 12 | 13.70          | MAY 13 | 13.94          | AUG 29 | 15.50          |

331825088222001. Local number P026. (USCE GW33)

LOCATION.--Lat 33°18'25", long 88°22'20", Hydrologic Unit 03160105, sec.25, T.17 N., R.18 E.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 20 ft.

DATUM.--Land-surface datum is about 160 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.75 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.75 ft below land-surface datum, Feb. 12, 1985; lowest measured, 7.86 ft below land-surface datum, Aug. 29, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 12 | 0.75           | MAY 13 | 2.24           | AUG 29 | 7.86           |

331915088220001. Local number P027. (USCE GW34)

LOCATION.--Lat 33°19'15", long 88°22'00", Hydrologic Unit 03160106, sec.24, T.17 N., R.18 E.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 17 ft.

DATUM.--Land-surface datum is about 160 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.90 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.98 ft below land-surface datum, May 13, 1985; lowest measured, 12.82 ft below land-surface datum, Aug. 29, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 12 | 5.30           | MAY 13 | 4.98           | AUG 29 | 12.82          |

332210088252501. Local number P028. (USCE GW37)

LOCATION.--Lat 33°22'10", long 88°25'25", Hydrologic Unit 03160106, sec.4, T.17 N., R.18 E.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 22 ft.

DATUM.--Land-surface datum is about 170 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.65 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.35 ft below land-surface datum, Feb. 12, 1985; lowest measured, 6.44 ft below land-surface datum, Aug. 29, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 12 | 0.35           | MAY 13 | 2.08           | AUG 29 | 6.44           |



## LOWNDES COUNTY--Continued

331915088202001. Local number Q012. (USCE TTM1A)

LOCATION.--Lat 33°19'15", long 88°20'20", Hydrologic Unit 03160106, NE¼SW¼ sec.17, T.20 S., R.17 W., 12.3 mi south-east of Columbus.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 141 ft, cased to 131 ft.

DATUM.--Land-surface datum is about 150 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 5.0 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.55 ft below land-surface datum, Mar. 7, 1983; lowest measured, 13.90 ft below land-surface datum, Oct. 3, 1978.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 26 | 6.10           | JAN 28 | 5.83           | MAY 13 | 5.60           | AUG 29 | 6.28           |

331915088202002. Local number Q013. (USCE TTM1B)

LOCATION.--Lat 33°19'15", long 88°20'20", Hydrologic Unit 03160106, NE¼SW¼ sec.17, T.20 S., R.17 W., 12.3 mi southeast of Columbus.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 24 ft, cased to 14 ft.

DATUM.--Land-surface datum is about 150 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 5.2 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.04 ft below land-surface datum, Mar. 7, 1983; lowest measured, 17.60 ft below land-surface datum, Oct. 3, 1978.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 26 | 12.24          | JAN 28 | 11.50          | MAY 13 | 10.65          | AUG 29 | 12.23          |

331854088184901. Local number Q014. (USCE GW30)

LOCATION.--Lat 33°18'54", long 88°18'49", Hydrologic Unit 03160106, sec.28, T.20 S., R.17 W.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 24 ft.

DATUM.--Land-surface datum is 144.2 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.90 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.73 ft below land-surface datum, Feb. 11, 1985; lowest measured, 5.74 ft below land-surface datum, Aug. 29, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 11 | 0.73           | MAY 13 | 2.97           | AUG 29 | 5.74           |

331929088190001. Local number Q015. (USCE GW31)

LOCATION.--Lat 33°19'29", long 88°19'00", Hydrologic Unit 03160106, sec.16, T.20 S., R.17 W.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 25 ft.

DATUM.--Land-surface datum is 142.6 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.15 ft above land-surface datum, Feb. 11, 1985; lowest measured, 3.64 ft below land-surface datum, Aug. 29, 1985.

## WATER LEVEL, IN FEET ABOVE AND BELOW (-) LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 11 | 1.15           | MAY 13 | 0.21           | AUG 29 | -3.64          |



## GROUND-WATER LEVELS IN THE TENNESSEE-TOMBIGBEE STUDY AREA

## LOWNDES COUNTY--Continued

332016088185001. Local number Q016. (USCE GW32)

LOCATION.--Lat 33°20'16", long 88°18'50", Hydrologic Unit 03160101, sec.9, T.20 S., R.17 W.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 35 ft.

DATUM.--Land-surface datum is 152.8 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.60 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.31 ft below land-surface datum, Feb. 11, 1985; lowest measured, 13.49 ft below land-surface datum, Aug. 29, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 11 | 7.31           | MAY 13 | 10.19          | AUG 29 | 13.49          |

## MONROE COUNTY

332900088313601. Local number 8068. (USCE APF58)

LOCATION.--Lat 33°29'00", long 88°31'36", Hydrologic Unit 03160101, NE¼NW¼ sec.34, T.12 S., R.19 W., 2 mi west of Amory on State Highway 278.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 2.0 in, depth 60 ft.

DATUM.--Land-surface datum is about 210 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 2.0 in pipe, 2.50 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.87 ft below land-surface datum, Feb. 14, 1985; lowest measured, 18.27 ft below land-surface datum, Aug. 27, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 14 | 17.87          | MAY 16 | 18.20          | AUG 27 | 18.27          |

340504088241101. Local number C051. (USCE 84A)

LOCATION.--Lat 34°05'04", long 88°24'11", Hydrologic Unit 03160101, NW¼NW¼ sec.36, T.11 S., R.8 E., 6 mi northeast of Amory.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 170 ft, cased to 150 ft.

DATUM.--Land-surface datum is about 234 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.8 ft above land-surface datum.

PERIOD OF RECORD.--August 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.3 ft above land-surface datum, Mar. 10, 1976; lowest measured, 7.63 ft below land-surface datum, Feb. 1, 1979.

## WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| NOV 29 | 3.15           | MAY 17 | 4.00           | AUG 28 | 3.32           |

340504088241102. Local number C052. (USCE 84B)

LOCATION.--Lat 34°05'04", long 88°14'11", Hydrologic Unit 03160101, NW¼NW¼ sec.36, T.11 S., R.8 E., 6 mi northeast of Amory.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 110 ft, cased to 100 ft.

DATUM.--Land-surface datum is about 234 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.2 ft above land-surface datum.

PERIOD OF RECORD.--August 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 11.46 ft above land-surface datum, Aug. 2, 1977; lowest measured, 12.64 ft below land-surface datum, Feb. 11, 1981.

## WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 29 | 2.33           | JAN 30 | 2.45           | MAY 17 | 2.58           | AUG 28 | 0.53           |

## MONROE COUNTY--Continued

340504088241103. Local number C053. (USCE 84C)

LOCATION.--Lat 34°05'04", long 88°24'11", Hydrologic Unit 03160101, NW¼NW¼ sec.36, T.11 S., R.8 E., 6 mi northeast of Amory.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 27 ft, cased to 7 ft.

DATUM.--Land-surface datum is about 234 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.3 ft above land-surface datum.

PERIOD OF RECORD.--August 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.77 ft above land-surface datum, Feb. 13, 1977; lowest measured, 9.17 ft below land-surface datum, Nov. 17, 1981.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| NOV 29 | 1.04        | JAN 30 | 0.27        | MAY 17 | 0.03        | AUG 28 | 4.42        |

340454088250401. Local number C054. (USCE 85A)

LOCATION.--Lat 34°04'54", long 88°25'04", Hydrologic Unit 03160101, SW¼NE¼ sec.36, T.11 S., R.8 E., 6.0 mi north-east of Amory.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 21 ft, cased to 11 ft.

DATUM.--Land-surface datum is about 235 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.5 ft above land-surface datum.

PERIOD OF RECORD.--August 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.17 ft below land-surface datum, Jan. 23, 1973; lowest measured, 8.72 ft below land-surface datum, Oct. 24, 1978.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| NOV 29 | 1.89        | JAN 30 | 1.56        | MAY 17 | 2.32        | AUG 28 | 2.48        |

340409088243801. Local number C057. (USCE 89A)

LOCATION.--Lat 34°04'09", long 88°24'38", Hydrologic Unit 03160101, SW¼NE¼ sec.1, T.12 S., R.8 E., 5.9 mi northeast of Amory.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 166 ft, cased to 146 ft.

DATUM.--Land-surface datum is about 245 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 1.65 ft above land-surface datum.

PERIOD OF RECORD.--August 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.48 ft above land-surface datum, Apr. 26, 1973; lowest measured, 33.35 ft below land-surface datum, Feb. 12, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY | OCT   | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-----|-------|------|------|------|------|------|------|------|------|------|------|------|
| 5   | 10.20 | 9.38 | 8.55 | 7.75 | 7.47 | 7.24 | 7.19 | 7.35 | 7.78 | 8.19 | 8.75 | 8.73 |
| 10  | 9.95  | 9.25 | 8.50 | 7.64 | 7.37 | 7.26 | 7.27 | 7.24 | 7.93 | 8.36 | 8.75 | 8.77 |
| 15  | 9.89  | 9.13 | 8.46 | 7.61 | 7.26 | 7.25 | 7.21 | 7.30 | 7.96 | 8.65 | 8.78 | 8.92 |
| 20  | 9.83  | 8.91 | 7.74 | 7.63 | 7.31 | 7.24 | 7.38 | 7.33 | 8.00 | 8.85 | 8.68 | 8.94 |
| 25  | 9.50  | 8.82 | 7.83 | 7.64 | 7.17 | 7.22 | 7.37 | 7.40 | 8.20 | 8.81 | 8.64 | 8.85 |
| EOM | 9.38  | 8.60 | 7.77 | 7.49 | 7.33 | 7.14 | 7.40 | 7.52 | 8.18 | 8.74 | 8.78 | 8.91 |

WTR YR 1985 MEAN 8.18 HIGH 7.12 APR 4 LOW 10.23 OCT 1

340409088243802. Local number C058. (USCE 89B)

LOCATION.--Lat 34°04'09", long 88°24'38", Hydrologic Unit 03160101, SW¼NE¼ sec.1, T.12 S., R.8 E., 5.9 mi northeast of Amory.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--McShan sand member of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 45 ft, cased to 40 ft.

DATUM.--Land-surface datum is about 245 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.0 ft above land-surface datum.

PERIOD OF RECORD.--August 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.77 ft above land-surface datum, Aug. 28, 1985; lowest measured, 10.03 ft below land-surface datum, Aug. 27, 1980.

## WATER LEVEL, IN FEET ABOVE AND (-) BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| NOV 28 | -4.10       | JAN 29 | 0.52        | MAY 17 | 0.75        | AUG 28 | 0.77        |

## GROUND-WATER LEVELS IN THE TENNESSEE-TOMBIGBEE STUDY AREA

## MONROE COUNTY--Continued

340054088281801. Local number C059. (USCE 95A)

LOCATION.--Lat 34°00'54", long 88°28'18", Hydrologic Unit 03160101, SW¼SW¼ sec.21, T.12 S., R.8 S., 0.5 mi north of Amory.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 166 ft, cased to 156 ft.

DATUM.--Land-surface datum is about 220 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 1.6 ft above land-surface datum.

PERIOD OF RECORD.--August 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.09 ft above land-surface datum, March 22, 1973; lowest measured, 16.45 ft below land-surface datum, Feb. 13, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5   | 12.70 | 11.67 | 11.12 | 10.49 | 10.48 | 10.39 | 10.29 | 10.39 | 11.50 | 11.78 | 12.34 | 12.26 |
| 10  | 12.64 | 11.67 | 11.08 | 10.52 | 10.44 | 10.41 | 10.47 | 10.40 | 11.72 | 11.94 | 12.30 | 12.22 |
| 15  | 12.31 | 11.59 | 11.08 | 10.57 | 10.40 | 10.42 | 10.39 | 10.42 | 11.67 | 12.46 | 12.37 | 12.30 |
| 20  | 12.33 | 11.46 | 10.90 | 10.52 | 10.42 | 10.41 | 10.48 | 10.46 | 11.69 | 12.46 | 12.29 | 12.27 |
| 25  | 11.83 | 11.45 | 10.70 | 10.71 | 10.33 | 10.34 | 10.42 | 10.74 | 11.72 | 12.47 | 12.31 | 12.27 |
| EOM | 11.83 | 11.12 | 10.47 | 10.57 | 10.33 | 10.32 | 10.43 | 10.94 | 11.73 | 12.37 | 12.30 | 12.12 |

WTR YR 1985 MEAN 11.30 HIGH 10.27 FEB 26 LOW 12.71 OCT 1

340018088270701. Local number C060. (USCE 96A)

LOCATION.--Lat 34°00'18", long 88°27'07", Hydrologic Unit 03160101, NW¼SE¼ sec.20, T.12 S., R.18 W., 0.8 mi north-east of Amory.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 164 ft, cased to 154 ft.

DATUM.--Land-surface datum is about 253 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.8 ft above land-surface datum.

PERIOD OF RECORD.--August 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.92 ft below land-surface datum, Apr. 26, 1973; lowest measured, 35.57 ft below land-surface datum, Feb. 12, 1981.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 28 | 30.91          | JAN 29 | 30.55          | MAY 16 | 30.30          | AUG 27 | 31.50          |

340149088292201. Local number C061. (USCE 91A)

LOCATION.--Lat 34°01'49", long 88°29'22", Hydrologic Unit 03160101, SW¼SW¼ sec.17, T.12 S., R.8 E.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--McShan sand member of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4.0 in, depth 88 ft.

DATUM.--Land-surface datum is about 218 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 4.0 in pipe, 2.10 ft above land-surface datum.

PERIOD OF RECORD.--August 1972 to May 1977, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.81 ft below land-surface datum, Feb. 9, 1975; lowest measured, 7.99 ft below land-surface datum, Aug. 7, 1972.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 14 | 7.65           | MAY 16 | 6.37           | AUG 27 | 3.65           |

340115088292101. Local number C062. (USCE 92A)

LOCATION.--Lat 34°01'15", long 88°29'21", Hydrologic Unit 03160101, NW¼SW¼ sec.20, T.12 S., R.8 E.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 200 ft.

DATUM.--Land-surface datum is about 216 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 4.0 in pipe, 1.85 ft above land-surface datum.

PERIOD OF RECORD.--October 1972 to May 1977, May 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.94 ft above land-surface datum, Oct. 1, 1972; lowest measured, 1.97 ft below land-surface datum, Aug. 27, 1985.

## WATER LEVEL, IN FEET ABOVE AND BELOW (-) LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| MAY 16 | 0.04           | AUG 27 | -1.97          |

## MONROE COUNTY--Continued

340056088283001. Local number C066. (USCE 94A)

LOCATION.--Lat 34°00'56", long 88°28'30", Hydrologic Unit 03160101, SE¼SE¼ sec.20, T.12 S., R.8 E., 0.5 mi north of Amory.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Terraces, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 20 ft, cased to 10 ft.

DATUM.--Land-surface datum is about 217 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.0 ft above land-surface datum.

PERIOD OF RECORD.--August 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.77 ft above land-surface datum, Feb. 17, 1982, 1974; lowest measured, 4.87 ft below land-surface datum, Oct. 24, 1978.

## WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| NOV 28 | 0.70           |

340054088281802. Local number C067. (USCE 95B)

LOCATION.--Lat 34°00'54", long 88°28'18", Hydrologic Unit 03160101, SW¼SW¼ sec.21, T.12 S., R.8 E., 0.5 mi north of Amory.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in depth 20 ft, cased to 10 ft.

DATUM.--Land-surface datum is about 220 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 1.65 ft above land-surface datum.

PERIOD OF RECORD.--August 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.57 ft below land-surface datum, Apr. 10, 1983; lowest measured, 9.97 ft below land-surface datum, Aug. 27, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY              | OCT  | NOV  | DEC  | JAN        | FEB | MAR | APR        | MAY | JUN | JUL | AUG  | SEP  |
|------------------|------|------|------|------------|-----|-----|------------|-----|-----|-----|------|------|
| 5                | 2.90 | 1.28 | .89  | .99        | .68 | .34 | .53        | .45 |     |     | ---  | 1.27 |
| 10               | 2.22 | 1.39 | .97  | 1.02       | .41 | .39 | .62        | .33 |     |     | ---  | 1.43 |
| 15               | 2.54 | 1.42 | .99  | 1.04       | .28 | .47 | .57        | .52 |     |     | ---  | 1.53 |
| 20               | 2.05 | 1.23 | .97  | .83        | .27 | .54 | .76        | .63 |     |     | ---  | 1.62 |
| 25               | 1.34 | 1.30 | .99  | .92        | .25 | .48 | .67        | --- |     |     | ---  | 1.51 |
| EOM              | 1.49 | .96  | 1.01 | .84        | .26 | .51 | .77        | --- |     |     | 1.45 | 1.57 |
| WTR YR 1985 MEAN |      | 1.00 | HIGH | .20 FEB 11 |     | LOW | 2.90 OCT 5 |     |     |     |      |      |

340115088292102. Local number C068. (USCE 92B)

LOCATION.--Lat 34°01'15", long 88°29'21", Hydrologic Unit 03160101, NW¼SW¼ sec.20, T.12 S., R.8 E.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 4.0 in, depth 19 ft.

DATUM.--Land-surface datum is about 216 ft above National Geodetic Vertical of 1929. Measuring point: Top of 4.0 in pipe, 1.20 ft above land-surface datum.

PERIOD OF RECORD.--September 1972 to May 1977, May 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.09 ft above land-surface datum; Feb. 9, 1975; lowest measured, 10.81 ft below land-surface datum, Sept. 1, 1972.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| MAY 16 | 2.02           | AUG 27 | 7.14           |

340149088292202. Local number C069. (USCE 91B)

LOCATION.--Lat 34°01'49", long 88°29'22", Hydrologic Unit 03160101, SW¼SW¼ sec.17, T.12 S., R.8 E.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 4.0 in, depth 20 ft.

DATUM.--Land-surface datum is about 218 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 4.0 in pipe, 1.05 ft above land-surface datum.

PERIOD OF RECORD.--October 1972 to May 1977, February to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.57 ft below land-surface datum, Feb. 9, 1975; lowest measured, 11.30 ft below land-surface datum, Oct. 1, 1972.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 14 | 8.25           | MAY 16 | 7.42           | AUG 27 | 9.41           |



## GROUND-WATER LEVELS IN THE TENNESSEE-TOMBIGBEE STUDY AREA

## MONROE COUNTY--Continued

340018088270702. Local number C070. (USCE 968)

LOCATION.--Lat 34°00'18", long 88°27'07", Hydrologic Unit 03160101, SW¼SE¼ sec.20, T.12 S., R.18 W., 0.5 mi north of Amory.

Owner: Irma Tubbs.

AQUIFER.--Terraces, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS.--Dug unused water table well, diameter 24 in, depth 16 ft.

DATUM.--Land-surface datum is about 257 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 2.9 ft above land-surface datum.

PERIOD OF RECORD.--August 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.10 ft below land-surface datum, Apr. 14, 1980; lowest measured, 12.10 ft below land-surface datum, Nov. 25, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY | OCT   | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-----|-------|------|------|------|------|------|------|------|------|------|------|------|
| 5   | 11.45 | 6.88 | 3.38 | 3.71 | 3.02 | 3.43 | 3.89 | 3.67 | 6.24 | 6.08 | 7.54 | 7.60 |
| 10  | 11.53 | 6.95 | 3.72 | 3.89 | 2.56 | 3.74 | 4.37 | 3.03 | 6.76 | 6.72 | 7.53 | 7.27 |
| 15  | 11.57 | 7.02 | 3.95 | 4.05 | 2.88 | 4.12 | 4.54 | 3.93 | 6.50 | 7.29 | 7.94 | 7.80 |
| 20  | 11.53 | 5.95 | 3.77 | 3.33 | 3.14 | 4.48 | 5.14 | 4.82 | 5.84 | 7.15 | 6.85 | 8.19 |
| 25  | 8.27  | 5.74 | 3.84 | 3.71 | 2.95 | 3.65 | 5.11 | 5.02 | 6.44 | 7.55 | 7.02 | 8.15 |
| EOM | 8.41  | 3.73 | 3.87 | 3.49 | 3.02 | 3.79 | 5.21 | 5.43 | 5.45 | 7.54 | 7.31 | 8.44 |

WTR YR 1985 MEAN 5.69 HIGH 2.37 FEB 11 LOW 11.58 OCT 16

335902088314501. Local number C080. (USCE TTM6A)

LOCATION.--Lat 33°59'02", long 88°31'45", Hydrologic Unit 03160101, NE¼NE¼ sec.33, T.13 S., R.19 W., 2 mi west of Amory.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Tombigbee Sand Member of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 65 ft, cased to 55 ft.

DATUM.--Land-surface datum is about 210 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 5.0 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.62 ft below land-surface datum, Mar. 8, 1983; lowest measured 13.19 ft below land-surface datum, Nov. 17, 1981.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| DEC 11 | 10.22       | JAN 29 | 9.94        | MAY 15 | 8.43        | AUG 27 | 10.68       |

335902088314502. Local number C081. (USCE TTM6B)

LOCATION.--Lat 33°59'02", long 88°31'45", Hydrologic Unit 03160101, NE¼NE¼ sec.33, T.13 S., R.19 W., 2 mi west of Amory.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 38 ft, cased to 28 ft.

DATUM.--Land-surface datum is about 210 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 5.0 ft above land-surface datum.

PERIOD OF RECORD.--June 1973 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.36 ft below land-surface datum, Mar. 8, 1983; lowest measured, 12.82 ft below land-surface datum, Nov. 17, 1981.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| DEC 11 | 9.91        | JAN 29 | 9.63        | MAY 15 | 8.27        | AUG 27 | 10.37       |

340054088292101. Local number C085. (USCE A1A)

LOCATION.--Lat 34°00'54", long 88°29'21", Hydrologic Unit 03160101, SW¼SW¼ sec.20, T.12 S., R.8 E., 2.75 mi north-west of Amory.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.0 in, depth 5 ft.

DATUM.--Land-surface datum is about 215 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.0 in pipe, 3.16 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES OF PERIOD OF RECORD.--Highest water level measured, 1.26 ft above land-surface datum, Feb. 14, 1985; lowest measured, 0.03 ft below land-surface datum, Aug. 27, 1985.

## WATER LEVEL, IN FEET ABOVE AND BELOW (-) LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|
| FEB 14 | 1.26        | MAY 16 | 0.34        | AUG 27 | -0.03       |



## MONROE COUNTY--Continued

340052088291801. Local number C086. (USCE A1)

LOCATION.--Lat 34°00'52", long 88°29'18", Hydrologic Unit 03160101, SW¼SW¼ sec.20, T.12 S., R.8 E., 2.75 mi north-west of Amory.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 24 ft.

DATUM.--Land-surface datum is about 215 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.00 ft above land-surface datum, Feb. 14, 1985; lowest measured, 0.15 ft below land-surface datum, Aug. 27, 1985.

WATER LEVEL, IN FEET ABOVE AND BELOW (-) LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 14 | 1.00           | MAY 16 | 0.96           | AUG 27 | -0.15          |

340052088292001. Local number C087. (USCE A2)

LOCATION.--Lat 34°00'52", long 88°29'20", Hydrologic Unit 03160101, NW¼NW¼ sec.29, T.12 S., R.8 E., 2.75 mi north-west of Amory.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 29 ft.

DATUM.--Land-surface datum is about 215 ft above National Geodetic Vertical of 1929. Measuring point: Top of 1.5 in pipe, 3.16 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.26 ft above land-surface datum, Feb. 14, 1985; lowest measured, 0.02 ft above land-surface datum Aug. 27, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 14 | 1.26           | MAY 16 | 1.16           | AUG 27 | 0.02           |

340051088291801. Local number C088. (USCE A2A)

LOCATION.--Lat 34°00'51", long 88°29'18", Hydrologic Unit 03160101, NW¼NW¼ sec.29, T.12 S., R.8 E., 2.75 mi north-west of Amory.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 5 ft.

DATUM.--Land-surface datum is about 215 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.25 ft above land-surface datum, May 16, 1985; lowest measured, 0.50 ft below land-surface datum, Aug. 27, 1985.

WATER LEVEL, IN FEET ABOVE AND BELOW (-) LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 14 | 0.25           | MAY 16 | 0.20           | AUG 27 | -0.50          |

340050088294901. Local number C089. (USCE A3)

LOCATION.--Lat 34°00'50", long 88°29'49", Hydrologic Unit 03160101, NW¼NW¼ sec.29, T.12 S., R.8 E., 2.75 mi north-west of Amory.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 25 ft.

DATUM.--Land-surface datum is about 215 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.85 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.45 ft below land-surface datum, Feb. 14, 1985; lowest measured, 4.13 ft below land-surface datum, Aug. 27, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 14 | 0.45           | MAY 16 | 0.93           | AUG 27 | 4.13           |

## MONROE COUNTY--Continued

335940088310201. Local number C091. (USCE APF60)

LOCATION.--Lat 33°59'40", long 88°31'02", Hydrologic Unit 03160101, NW¼ sec.26, T.12 S., R.19 W.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 70 ft.

DATUM.--Land-surface datum is 210.5 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.10 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 (discontinued).

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL |
|--------|----------------|
| FEB 14 | 7.90           |

NOTE: Well destroyed.

335842088300301. Local number C092. (USCE GW80)

LOCATION.--Lat 33°58'42", long 88°30'03", Hydrologic Unit 03160101, SW¼NE¼ sec.35, T.12 S., R.19 W., 1 mi west of Amory.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 33 ft.

DATUM.--Land-surface datum is 236.4 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.4 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 17.87 ft below land-surface datum, May 15, 1985; lowest measured, 19.20 ft below land-surface datum, Aug. 27, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 14 | 18.23          | MAY 15 | 17.87          | AUG 27 | 19.20          |

335830088284001. Local number C093. (USCE GW81)

LOCATION.--Lat 33°58'30", long 88°28'40", Hydrologic Unit 03160101, NE¼SE¼ sec.36, T.12 S., R.19 W., 0.5 mi southeast intersection of State Highway 278 and 25.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 25 ft.

DATUM.--Land-surface datum is about 215 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.10 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 1.17 ft below land-surface datum, Feb. 14, 1985; lowest measured, 6.34 ft below land-surface datum, Aug. 27, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 14 | 1.17           | MAY 16 | 2.33           | AUG 27 | 6.34           |

340010088292501. Local number C094. (USCE GW83)

LOCATION.--Lat 34°00'10", long 88°29'25", Hydrologic Unit 03160101, SE¼SE¼ sec.30, T.12 S., R.8 E., 1.5 mi north of Amory.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 33 ft.

DATUM.--Land-surface datum is 213.2 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.40 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.00 ft below land-surface datum, Feb. 14, 1985; lowest measured, 2.85 ft below land-surface datum, Aug. 27, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 14 | 1.00           | MAY 16 | 1.15           | AUG 27 | 2.85           |

## MONROE COUNTY--Continued

340016088270001. Local number C095. (USCE GW85)

LOCATION.--Lat 34°00'16", long 88°27'00", Hydrologic Unit 03160101, SW¼SE¼ sec.20, T.12 S., R.18 W., 2.5 mi northeast of Amory.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 26 ft.

DATUM.--Land-surface datum is 257.6 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.1 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.75 ft below land-surface datum, Mar. 4, 1985; lowest measured, 6.28 ft below land-surface datum, Aug. 27, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 4 | 2.75           | MAY 16 | 3.38           | AUG 27 | 6.28           |

340049088275201. Local number C096. (USCE GW86)

LOCATION.--Lat 34°00'49", long 88°27'52", Hydrologic Unit 03160101, NW¼NE¼ sec.19, T.12 S., R.18 W., 2.5 mi north of Amory.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 24 ft.

DATUM.--Land-surface datum is 247.1 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.40 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.86 ft below land-surface datum, Feb. 14, 1985; lowest measured, 7.19 ft below land-surface datum, Aug. 25, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 14 | 0.86           | MAY 16 | 2.17           | AUG 25 | 7.19           |

340121088275001. Local number C097. (USCE GW86A)

LOCATION.--Lat 34°01'21", long 88°27'50", Hydrologic Unit 03160101, NE¼SW¼ sec.21, T.12 S., R.8 E., 3 mi North of Amory.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 31 ft.

DATUM.--Land-surface datum is about 210 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 1.95 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.45 ft below land-surface datum, Feb. 14, 1985; lowest measured, 1.86 ft below land-surface datum, Aug. 28, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 14 | 1.45           | MAY 16 | 1.75           | AUG 28 | 1.86           |

340130088261501. Local number C098. (USCE GW87)

LOCATION.--Lat 34°01'30", long 88°26'15", Hydrologic Unit 03160101, SE¼NW¼ sec.16, T.12 S., R.18 W., 4 mi northeast of Amory.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 30 ft.

DATUM.--Land-surface datum is 258.0 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.25 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.55 ft below land-surface datum, Feb. 14, 1985; lowest measured, 5.53 ft below land-surface datum, Aug. 27, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 14 | 0.55           | MAY 16 | 2.17           | AUG 27 | 5.53           |

## GROUND-WATER LEVELS IN THE TENNESSEE-TOMBIGBEE STUDY AREA

## MONROE COUNTY--Continued

340201088270201. Local number C099. (USCE GW88)

LOCATION.--Lat 34°02'01", long 88°27'02", Hydrologic Unit 03160101, SW¼SW¼ sec.15, T.12 S., R.8 E., 2.7 mi northeast of Amory High School.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 24 ft.

DATUM.--Land-surface datum is 244.2 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top 1.5 in pipe, 1.50 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.50 ft below land-surface datum, Feb. 14, 1985; lowest measured, 12.53 ft below land-surface datum, Aug. 28, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 14 | 11.50          | MAY 16 | 11.60          | AUG 28 | 12.53          |

340246088280001. Local number C100. (USCE GW89)

LOCATION.--Lat 34°02'46", long 88°28'00", Hydrologic Unit 03160101, SE¼SW¼ sec.9, T.12 S., R.8 E., 4.75 mi north of Amory.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 30 ft.

DATUM.--Land-surface datum is 225.2 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.10 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.10 ft below land-surface datum, Feb. 14, 1985; lowest measured, 5.04 ft below land-surface datum, Aug. 27, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 14 | 1.10           | MAY 16 | 2.45           | AUG 27 | 5.04           |

340238088244401. Local number C101. (USCE GW90)

LOCATION.--Lat 34°02'38", long 88°24'44", Hydrologic Unit 03160101, NE¼NW¼ sec.13, T.12 S., R.8 E., 2.25 mi south of Smithville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 26 ft.

DATUM.--Land-surface datum is about 270 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.65 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.62 ft below land-surface datum, Mar. 4, 1985; lowest measured, 5.04 ft below land-surface datum, Aug. 27, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 4 | 2.62           | MAY 17 | 3.67           | AUG 27 | 5.04           |

340307088252101. Local number C102. (USCE GW91)

LOCATION.--Lat 34°03'07", long 88°25'21", Hydrologic Unit 03160101, SE¼NE¼ sec.11, T.12 S., R.8 E., 2 mi south of Smithville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 23 ft.

DATUM.--Land-surface datum is 261.3 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.10 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.65 ft below land-surface datum, Feb. 14, 1985; lowest measured, 12.71 ft below land-surface datum, Aug. 28, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 14 | 7.65           | MAY 17 | 11.01          | AUG 28 | 12.71          |



## MONROE COUNTY--Continued

340351088250801. Local number C104. (USCE GW92A)

LOCATION.--Lat 34°03'51", long 88°25'08", Hydrologic Unit 03160101, NW¼SW¼ sec.1, T.12 S., R.8 E., 1.75 mi west of Smithville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 215 ft.

DATUM.--Land-surface datum is 257.3 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.50 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.49 ft below land-surface datum, May 17, 1985; lowest measured, 24.88 ft below land-surface datum, Aug. 28, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 14 | 23.70          | MAY 17 | 23.49          | AUG 28 | 24.88          |

340351088250802. Local number C105. (USCE GW92B)

LOCATION.--Lat 34°03'51", long 88°25'08", Hydrologic Unit 03160101, NW¼SW¼ sec.1, T.12 S., R.8 E., 1.5 mi west of Smithville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 122 ft.

DATUM.--Land-surface datum is 257.3 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.60 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.82 ft below land-surface datum, May 17, 1985; lowest measured, 24.08 ft below land-surface datum, Aug. 28, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 14 | 23.09          | MAY 17 | 22.82          | AUG 28 | 24.08          |

340351088250803. Local number C106. (USCE GW92C)

LOCATION.--Lat 34°03'51", long 88°25'08", Hydrologic Unit 03160101, NW¼SW¼ sec.1, T.12 S., R.8 E., 1.5 mi west of Smithville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 100 ft.

DATUM.--Land-surface datum is 257.4 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.50 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.67 ft below land-surface datum, May 17, 1985; lowest measured, 23.96 ft below land-surface datum, Aug. 28, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 14 | 23.13          | MAY 17 | 22.67          | AUG 28 | 23.96          |

340017088290801. Local number C107. (USCE LA2L)

LOCATION.--Lat 34°00'17", long 88°29'08", Hydrologic Unit 03160101, SW¼NW¼ sec.24, T.12 S., R.19 W., 0.7 mi west of Amory High School.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 147 ft.

DATUM.--Land-surface datum is about 220 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.04 ft below land-surface datum, May 16, 1985; lowest measured, 20.10 ft below land-surface datum, Aug. 27, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 14 | 18.27          | MAY 16 | 18.04          | AUG 27 | 20.10          |



## MONROE COUNTY--Continued

340017088290802. Local number C108. (USCE LA2U)

LOCATION.--Lat 34°00'17", long 88°29'08", Hydrologic Unit 03160101, SW¼NW¼ sec.24, T.12 S., R.19 W., 0.7 mi west of Amory High School.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 67 ft.

DATUM.--Land-surface datum is about 220 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.67 ft below land-surface datum, May 16, 1985; lowest measured, 21.21 ft below land-surface datum, Aug. 27, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 14 | 20.81          | MAY 16 | 20.67          | AUG 27 | 21.21          |

335829088283901. Local number C109. (USCE LA4L)

LOCATION.--Lat 33°58'29", long 88°28'39", Hydrologic Unit 03160101, NE¼SE¼ sec.36, T.12 S., R.19 W., 1.5 mi north of Amory.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 190 ft.

DATUM.--Land-surface datum is about 235 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.85 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.88 ft below land-surface datum, May 16, 1985; lowest measured, 34.63 ft below land-surface datum, Aug. 27, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 14 | 32.95          | MAY 16 | 32.88          | AUG 27 | 34.63          |

335829088283902. Local number C110. (USCE LA4U)

LOCATION.--Lat 33°58'29", long 88°28'39", Hydrologic Unit 03160101, NE¼SE¼ sec.36, T.12 S., R.19 W., 1.5 mi north of Amory.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 122 ft.

DATUM.--Land-surface datum is about 235 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.85 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.00 ft below land-surface datum, Feb. 14, 1985; lowest measured, 10.18 ft below land-surface datum, Aug. 27, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 14 | 5.00           | MAY 16 | 5.54           | AUG 27 | 10.18          |

340009088293701. Local number C111. (USCE LA5L)

LOCATION.--Lat 34°00'09", long 88°29'37", Hydrologic Unit 03160101, SW¼SE¼ sec.30, T.12 S., R.8 E., 1.5 mi north of Amory.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 205 ft.

DATUM.--Land-surface datum is about 210 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.90 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.00 ft below land-surface datum, May 16, 1985; lowest measured, 7.30 ft below land-surface datum, Feb. 14, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 14 | 7.30           | MAY 16 | 3.00           | AUG 27 | 5.92           |

## MONROE COUNTY--Continued

340009088293702. Local number C112. (USCE LASU)

LOCATION.--Lat 34°00'09", long 88°29'37", Hydrologic Unit 03160101, SW¼SE¼ sec.30, T.12 S., R.8 E., 1.5 mi north of Amory.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 57 ft.

DATUM.--Land-surface datum is about 210 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.80 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.45 ft below land-surface datum, Feb. 14, 1985; lowest measured, 10.63 ft below land-surface datum, Aug. 27, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 14 | 5.45           | MAY 16 | 8.04           | AUG 27 | 10.63          |

340334088264601. Local number C113. (USCE AF63)

LOCATION.--Lat 34°03'34", long 88°26'64", Hydrologic Unit 03160101, SW¼SE¼ sec.3, T.12 S., R.8 E., 4.1 mi southwest of Smithville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 2.0 in, depth 54 ft.

DATUM.--Land-surface datum is about 230 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 2.0 in pipe, 2.30 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.04 ft below land-surface datum, May 17, 1985; lowest measured, 3.79 ft below land-surface datum, Aug. 28, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 14 | 3.30           | MAY 17 | 3.04           | AUG 28 | 3.79           |

340238088244401. Local number C115. (USCE GW90)

LOCATION.--Lat 34°02'38", long 88°24'44", Hydrologic Unit 03160101, NE¼NW¼ sec.13, T.12 S., R.8 E., 2.75 mi south of Smithville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 26 ft.

DATUM.--Land-surface datum is about 270 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.65 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.62 ft below land-surface datum, Mar. 4, 1985; lowest measured, 5.04 ft below land-surface datum, Aug. 27, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 4 | 2.62           | MAY 17 | 3.67           | AUG 27 | 5.04           |

340346088233801. Local number D032. (USCE GW92)

LOCATION.--Lat 34°03'46", long 88°23'38", Hydrologic Unit 03160101, NE¼SW¼ sec.6, T.12 S., R.9 E., in Smithville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 20 ft.

DATUM.--Land-surface datum is 266.7 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.6 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.10 ft below land-surface datum, Mar. 4, 1985; lowest measured, 3.14 ft below land-surface datum, Aug. 28, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 4 | 1.10           | MAY 17 | 2.18           | AUG 28 | 3.14           |

## MONROE COUNTY--Continued

340408088240601. Local number D033. (USCE GW93A)

LOCATION.--Lat 34°04'08", long 88°24'06", Hydrologic Unit 03160101, SW¼NW¼ sec.6, T.12 S., R.9 E., in Smithville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 178 ft.

DATUM.--Land-surface datum is 259.2 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.20 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.77 ft below land-surface datum, May 17, 1985; lowest measured 16.35 ft below land-surface datum, Aug. 28, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 14 | 15.66          | MAY 17 | 14.77          | AUG 28 | 16.35          |

340408088240602. Local number D034. (USCE GW93B)

LOCATION.--Lat 34°04'08", long 88°24'06", Hydrologic Unit 03160101, SW¼NW¼ sec.6, T.12 S., R.9 E., in Smithville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 102 ft.

DATUM.--Land-surface datum is 259.4 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.2 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.53 ft below land-surface datum, May 17, 1985; lowest measured, 16.39 ft below land-surface datum, Aug. 28, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 14 | 14.70          | MAY 17 | 14.53          | AUG 28 | 16.39          |

340408088240603. Local number D035. (USCE GW93C)

LOCATION.--Lat 34°04'08", long 88°24'06", Hydrologic Unit 03160101, SW¼NW¼ sec.6, T.12 S., R.9 E., in Smithville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 20 ft.

DATUM.--Land-surface datum is 259.4 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.15 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.65 ft below land-surface datum, Feb. 14, 1985; lowest measured, 4.75 ft below land-surface datum, Aug. 28, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 14 | 0.65           | MAY 17 | 3.42           | AUG 28 | 4.75           |

340420088240001. Local number D036. (USCE GW94A)

LOCATION.--Lat 34°04'20", long 88°24'00", Hydrologic Unit 03160101, NW¼NW¼ sec.6, T.12 S., R.9 E., in Smithville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 27 ft.

DATUM.--Land-surface datum is about 255 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.10 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.70 ft below land-surface datum, Feb. 14, 1985; lowest measured, 2.97 ft below land-surface datum, May 17, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 14 | 2.70           | MAY 17 | 2.97           | AUG 28 | 2.78           |

## MONROE COUNTY--Continued

335725088313501. Local number G052. (USCE APF55)

LOCATION.--Lat 33°57'25", long 88°31'35", Hydrologic Unit 03160101, SW¼ sec.3, T.13 S., R.19 W., 2.75 mi southwest of Amory.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 69 ft.

DATUM.--Land-surface datum is 205.7 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.50 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.64 ft below land-surface datum, Feb. 14, 1985; lowest measured, 12.34 ft below land-surface datum, Aug. 27, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 14 | 10.64          | MAY 16 | 11.36          | AUG 27 | 12.34          |

335815088312601. Local number G053. (USCE APF57)

LOCATION.--Lat 33°58'15", long 88°31'26", Hydrologic Unit 03160101, SE¼SW¼ sec.34, T.12 S., R.19 W., 2 mi southwest of Amory.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 50 ft.

DATUM.--Land-surface datum is 207.3 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 4.15 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.26 ft below land-surface datum, May 16, 1985; lowest measured, 18.23 ft below land-surface datum, Feb. 14, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 14 | 18.23          | MAY 16 | 14.26          | AUG 27 | 14.85          |

335353088312801. Local number G054. (USCE GW73)

LOCATION.--Lat 33°53'53", long 88°31'28", Hydrologic Unit 03160101, SE¼SW¼ sec.27, T.13 S., R.7 E., 5.5 mi northeast of Aberdeen.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 32 ft.

DATUM.--Land-surface datum is about 198 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.10 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.61 ft below land-surface datum, Feb. 13, 1985; lowest measured, 5.65 ft below land-surface datum, Aug. 27, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 13 | 0.16           | MAY 15 | 2.21           | AUG 27 | 5.65           |

335337088293701. Local number G055. (USCE GW74)

LOCATION.--Lat 33°53'37", long 88°29'37", Hydrologic Unit 03160101, SW¼NW¼ sec.36, T.13 S., R.19 W., 6 mi south of Amory.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 32 ft.

DATUM.--Land-surface datum is 214.3 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.25 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.25 ft below land-surface datum, Feb. 13, 1985; lowest measured, 9.77 ft below land-surface datum, Aug. 27, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 13 | 8.25           | MAY 15 | 8.76           | AUG 27 | 9.77           |



## GROUND-WATER LEVELS IN THE TENNESSEE-TOMBIGBEE STUDY AREA

## MONROE COUNTY--Continued

335710088310501. Local number G056. (USCE GW76)

LOCATION.--Lat 33°57'10", long 88°31'05", Hydrologic Unit 03160101, NW¼NE¼ sec.10, T.13 S., R.19 W., 3 mi southwest of Amory.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 45 ft.

DATUM.--Land-surface datum is 203.4 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.30 ft below land-surface datum, Feb. 13, 1985; lowest measured, 3.20 ft below land-surface datum, Aug. 26, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 13 | 1.30           | MAY 15 | 2.34           | AUG 26 | 3.20           |

335654088325401. Local number G057. (USCE GW76A)

LOCATION.--Lat 33°56'54", long 88°32'54", Hydrologic Unit 03160101, NW¼SE¼ sec.15, T.13 S., R.7 E., 4.5 mi southwest of Amory.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 25 ft.

DATUM.--Land-surface datum is 202.4 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.90 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.00 ft below land-surface datum, Feb. 13, 1985; lowest measured, 1.88 ft below land-surface datum, Aug. 26, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 13 | 1.00           | MAY 14 | 1.45           | AUG 26 | 1.88           |

335715088295601. Local number G058 (USCE GW77)

LOCATION.--Lat 33°57'15", long 88°29'56", Hydrologic Unit 03160101, NE¼NE¼ sec.11, T.13 S., R.19 W., 2 mi southwest of Amory.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 46 ft.

DATUM.--Land-surface datum is 234.2 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.20 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.50 ft below land-surface datum, Feb. 13, 1985; lowest measured, 11.53 ft below land-surface datum, Aug. 27, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 13 | 9.50           | MAY 15 | 10.01          | AUG 27 | 11.53          |

335909088330501. Local number G059. (USCE GW78)

LOCATION.--Lat 33°59'09", long 88°33'05", Hydrologic Unit 03160101, NE¼NW¼ sec.3, T.13 S., R.7 E., 4 mi west of Amory.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 36 ft.

DATUM.--Land-surface datum is 205.3 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 4.2 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.04 ft below land-surface datum, Feb. 14, 1985; lowest measured, 11.70 ft below land-surface datum, Aug. 27, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 14 | 6.04           | MAY 15 | 10.46          | AUG 27 | 11.70          |



## MONROE COUNTY--Continued

335456088300201. Local number G060. (USCE GW75)

LOCATION.--Lat 33°54'56", long 88°30'02", Hydrologic Unit 03160101, NW¼SE¼ sec.23, T.13 S., R.19 W., 6 mi southwest of Amory.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 2.0 in, depth 30 ft.

DATUM.--Land-surface datum is about 200 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 2.0 in pipe, 1.70 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.90 ft below land-surface datum, Feb. 13, 1985; lowest measured, 5.57 ft below land-surface datum, Aug. 27, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|
| FEB 13 | 0.90        | MAY 15 | 2.66        | AUG 27 | 5.57        |

335445088312501. Local number H017. (USCE TTM5A)

LOCATION.--Lat 33°54'45", long 88°31'25", Hydrologic Unit 03160101, SE¼SW¼ sec.22, T.13 S., R.19 W., 6.4 mi north of Aberdeen.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 90 ft, cased to 80 ft.

DATUM.--Land-surface datum is about 200 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 5.0 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.18 ft below land-surface datum, Mar. 8, 1983; lowest measurement, 15.15 ft below land-surface datum, Oct. 24, 1978.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| NOV 26 | 7.95        | JAN 29 | 6.98        | MAY 15 | 6.74        | AUG 27 | 8.88        |

335445088312502. Local number H018. (USCE TTM5B)

LOCATION.--Lat 33°54'45", long 88°31'25", Hydrologic Unit 03160101, SE¼SW¼ sec.22, T.13 S., R.19 W., 6.4 mi north of Aberdeen.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 26 ft, cased to 16 ft.

DATUM.--Land-surface datum is about 200 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 5.0 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.71 ft below land-surface datum, Mar. 8, 1983; lowest measured, 13.86 ft below land-surface datum, Nov. 17, 1981.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| NOV 26 | 8.73        | JAN 29 | 7.86        | MAY 15 | 6.75        | AUG 27 | 9.71        |

335122088293001. Local number L062. (USCE 105A)

LOCATION.--Lat 33°51'22", long 88°29'30", Hydrologic Unit 03160101, SW¼SW¼ sec.19, T.14 S., R.19 W., 3.7 mi north-east of Aberdeen.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 64 ft, cased to 54 ft.

DATUM.--Land-surface datum is about 210 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 0.8 ft above land-surface datum.

PERIOD OF RECORD.--August 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 6.20 ft below land-surface datum, Mar. 22, 1973; lowest measured, 14.65 ft Nov. 15, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY         | OCT  | NOV  | DEC  | JAN  | FEB    | MAR  | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|------|------|------|------|--------|------|-------|-------|-------|-------|-------|-------|
| 5           |      | ---  | 9.27 | 9.43 | 8.62   | 8.13 | 8.25  | ---   | 9.95  | 10.35 | 10.98 | 11.58 |
| 10          |      | ---  | 9.11 | 9.41 | 8.13   | 8.10 | 8.43  | ---   | 10.34 | 10.68 | 11.08 | 11.36 |
| 15          |      | ---  | 9.22 | 9.43 | 8.13   | 8.30 | 8.56  | 8.06  | 10.15 | 11.05 | 11.30 | 11.21 |
| 20          |      | ---  | 9.24 | 9.09 | 8.13   | 8.52 | 8.73  | 8.56  | 9.93  | 11.07 | 11.12 | 11.44 |
| 25          |      | ---  | 9.34 | 9.04 | 8.13   | 8.29 | 8.91  | 8.99  | 9.92  | 11.02 | 11.24 | 11.35 |
| EOM         |      | 9.77 | 9.41 | 9.15 | 8.13   | 8.30 | 8.87  | 9.47  | 10.06 | 10.87 | 11.41 | 11.24 |
| WTR YR 1985 | MEAN | 9.63 | HIGH | 8.06 | MAY 15 | LOW  | 11.62 | SEP 8 |       |       |       |       |

## GROUND-WATER LEVELS IN THE TENNESSEE-TOMBIGBEE STUDY AREA

## MONROE COUNTY--Continued

335117088332801. Local number L063. (USCE 101A)

LOCATION.--Lat 33°51'17", long 88°33'28", Hydrologic Unit 03610101, SW¼SW¼ sec.15, T.14 S., R.7 E., 2 mi north of Aberdeen.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 90 ft, cased to 80 ft.

DATUM.--Land-surface datum is about 202 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.6 ft above land-surface datum.

PERIOD OF RECORD.--August 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.92 ft below land-surface datum, Mar. 22, 1973; lowest measured, 25.28 ft below land-surface datum, Oct. 24, 1978.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 27 | 20.57          | JAN 29 | 19.37          | MAY 14 | 17.27          | AUG 26 | 21.28          |

335118088323201. Local number L064. (USCE 102A)

LOCATION.--Lat 34°51'18", long 88°32'32", Hydrologic Unit 03160101, NW¼NW¼ sec.23, T.14 S., R.7 E., 2 mi north of Aberdeen.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 50 ft, cased to 40 ft.

DATUM.--Land-surface datum is about 191 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--August 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.39 ft above land-surface datum, Mar. 12, 1980; lowest measured, 11.46 ft below land-surface datum, Oct. 19, 1972.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 27 | 1.98           | JAN 29 | 1.52           | MAY 14 | 1.13           | AUG 26 | 2.93           |

335122088305201. Local number L065. (USCE 104A)

LOCATION.--Lat 33°51'22", long 88°30'52", Hydrologic Unit 03160101, SE¼SE¼ sec.10, T.14 S., R.19 W., 2.3 mi north-east of Aberdeen.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 55 ft, cased to 50 ft.

DATUM.--Land-surface datum is about 194 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.5 ft above land-surface datum.

PERIOD OF RECORD.--August 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.47 ft below land-surface datum, Jan. 29, 1985; lowest measured, 9.77 ft below land-surface datum, Oct. 24, 1978.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 27 | 1.49           | JAN 29 | 1.47           | MAY 15 | 1.73           | AUG 27 | 3.99           |

335122088305202. Local number L067. (USCE 104B)

LOCATION.--Lat 33°51'22", long 88°30'52", Hydrologic Unit 03160101, SE¼SE¼ sec.10, T.14 S., R.19 E., 2.3 mi north-east of Aberdeen.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 24 ft, cased to 19 ft.

DATUM.--Land-surface datum is about 194 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--August 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.54 ft below land-surface datum, Nov. 27, 1984; lowest measured 9.27 ft below land-surface datum, Nov. 17, 1981.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 27 | 1.54           | JAN 29 | 2.59           | MAY 15 | 2.43           | AUG 27 | 4.54           |

## MONROE COUNTY--Continued

335118088323202. Local number, L068. (USCE 1028)

LOCATION.--Lat 33°51'18", long 88°32'32", Hydrologic Unit 03160101, NW¼NW¼ sec.23, T.14 S., R.7 E., 2.0 mi north of Aberdeen.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 30 ft, cased to 25 ft.

DATUM.--Land-surface datum is about 191 ft National Geodetic Vertical Datum of 1929. Measuring point:

Top of casing, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--August 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.98 ft above land-surface datum, May 26, 1980;

lowest measured, 8.80 ft below land-surface datum, Dec. 11, 1975.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE | WATER LEVEL |
|------|-------------|
|------|-------------|

|        |      |
|--------|------|
| NOV 27 | 0.70 |
|--------|------|

Obstruction. No measurement since November 27, 1984.

335117088332802. Local number L069. (USCE 1018)

LOCATION.--Lat 33°51'17", long 88°33'28", Hydrologic Unit 03160101, SW¼SW¼ sec.15, T.14 S., R.7 E., 2 mi north of Aberdeen.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Terraces, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 20 ft, cased to 15 ft.

DATUM.--Land-surface datum is about 202 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of

casing, 1.6 ft above land-surface datum.

PERIOD OF RECORD.--August 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.05 ft below land-surface datum, May 30, 1973;

lowest measured, 13.00 ft below land-surface datum, Nov. 15, 1982.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| NOV 27 | 9.34        | JAN 29 | 5.79        | MAY 14 | 3.04        | AUG 26 | 7.26        |

334910088311501. Local number L073. (USCE TTM4A)

LOCATION.--Lat 33°49'10", long 88°31'15", Hydrologic Unit 03160101, SE¼NW¼ sec.36, T.14 S., R.7 E., 1.3 mi east of Aberdeen.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 177 ft, cased to 167 ft.

DATUM.--Land-surface datum is about 200 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of

casing, 5.2 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.73 ft below land-surface datum, Mar. 11, 1980;

lowest measured, 33.46 ft below land-surface datum, Oct. 23, 1978.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| NOV 27 | 30.43       | JAN 29 | 30.37       | MAY 15 | 28.89       | AUG 26 | 30.52       |

334910088311502. Local number L074. (USCE TTM4B)

LOCATION.--Lat 33°49'10", long 88°31'15", Hydrologic Unit 03160101, SE¼NW¼ sec.36, T.14 S., R.7 E., 1.3 mi east of Aberdeen.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 26 ft, cased to 16 ft.

DATUM.--Land-surface datum is about 200 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of

casing, 5.3 ft above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.50 ft below land-surface datum, Mar. 8, 1983;

lowest measured, 14.87 ft below land-surface datum, Oct. 23, 1978.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| NOV 27 | 11.02       | JAN 29 | 10.04       | MAY 13 | 10.24       | AUG 26 | 12.70       |

## GROUND-WATER LEVELS IN THE TENNESSEE-TOMBIGBEE STUDY AREA

## MONROE COUNTY--Continued

334958088323601. Local number L075. (USCE AB11)

LOCATION.--Lat 33°49'58", long 88°32'36", Hydrologic Unit 03160101, SE¼SE¼ sec.26, T.14 S., R.7 E., in Aberdeen.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--McShan sand member of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 224 ft, cased to 204 ft.

DATUM.--Land-surface datum is about 200 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 3.2 ft above land-surface datum.

PERIOD OF RECORD.--February 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.52 ft below land-surface datum, May 11, 1977; lowest measured, 27.43 ft below land-surface datum, Aug. 25, 1979.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## LOWEST LEVELS

| DAY | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5   | 25.35 | 23.49 | 23.35 | 24.22 | 23.38 | 23.67 | 23.67 | 23.33 | 23.99 | 24.66 | 24.85 | 23.98 |
| 10  | 25.07 | 23.72 | 23.60 | 23.88 | 23.21 | 23.96 | 23.61 | 23.62 | 24.34 | 25.18 | 24.95 | 23.69 |
| 15  | 24.54 | 23.83 | 23.56 | 24.45 | 22.88 | 23.79 | 23.41 | 24.05 | 24.36 | 25.10 | 24.91 | 24.17 |
| 20  | 24.82 | 23.70 | 23.45 | 24.23 | 23.11 | 23.61 | 23.65 | 23.27 | 24.69 | 25.10 | 25.09 | 24.80 |
| 25  | 24.31 | 23.66 | 23.45 | 24.29 | 22.99 | 23.76 | 23.59 | 23.16 | 24.57 | 25.22 | 25.48 | 25.22 |
| EOM | 23.67 | 23.34 | 23.45 | 23.53 | 23.42 | 23.62 | 23.87 | 23.47 | 24.90 | 24.77 | 24.22 | 25.08 |

WTR YR 1985 MEAN 24.06 HIGH 22.83 FEB 13 LOW 25.49 JUL 11

334958088323602. Local number L077. (USCE AB10)

LOCATION.--Lat 33°49'58", long 88°32'36", Hydrologic Unit 03160101, SW¼SW¼ sec.26, T.14 S., R.7 E., in Aberdeen.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 145 ft, cased to 135 ft.

DATUM.--Land-surface datum is about 200 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 3.5 ft above land-surface datum.

PERIOD OF RECORD.--February 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.25 ft below land-surface datum, Mar. 8, 1983; lowest measured, 67.86 ft below land-surface datum, Aug. 8, 1979

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 28 | 38.14          | JAN 29 | 40.87          | MAY 15 | 49.09          | AUG 26 | 52.66          |

334958088323603. Local number L078. (USCE AB12)

LOCATION.--Lat 33°49'58", long 88°32'36", Hydrologic Unit 03160101, SW¼SW¼ sec.26, T.14 S., R.7 E., in Aberdeen.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 90 ft, cased to 80 ft.

DATUM.--Land-surface datum is about 200 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--February 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.40 ft below land-surface datum, Apr. 10, 1983; lowest measured, 52.09 ft below land-surface datum, Jan. 10, 1979.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

## LOWEST LEVELS

| DAY | OCT   | NOV   | DEC | JAN | FEB | MAR | APR | MAY   | JUN   | JUL   | AUG   | SEP   |
|-----|-------|-------|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|
| 5   | 43.02 | 38.82 |     |     |     |     |     | ---   | 43.25 | 42.60 | 41.95 | 42.43 |
| 10  | 42.09 | 39.51 |     |     |     |     |     | ---   | 42.99 | 44.83 | 42.59 | 39.98 |
| 15  | 40.11 | 40.12 |     |     |     |     |     | 42.51 | 43.37 | 45.59 | 41.60 | 41.22 |
| 20  | 39.93 | 38.83 |     |     |     |     |     | 43.22 | 43.15 | 45.49 | 42.60 | 42.86 |
| 25  | 40.01 | 38.62 |     |     |     |     |     | 40.57 | 41.84 | 45.86 | 44.77 | 44.10 |
| EOM | 39.13 | ---   |     |     |     |     |     | 42.90 | 43.91 | 43.54 | 45.48 | 42.72 |

WTR YR 1985 MEAN 42.27 HIGH 38.54 NOV 27 LOW 46.77 JUL 22

334958088322201. Local number L084. (USCE AB1)

LOCATION.--Lat 33°49'55", long 88°32'22", Hydrologic Unit 03160101, NW¼SW¼ sec.26, T.14 S., R.7 E., 0.6 mi northeast of Shivers High School in Aberdeen.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 80 ft.

DATUM.--Land-surface datum is about 195 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 4.50 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.23 ft below land-surface datum, Feb. 13, 1985; lowest measured, 32.10 ft below land-surface datum, Aug. 26, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 13 | 27.23          | MAY 15 | 30.47          | AUG 26 | 32.10          |



## MONROE COUNTY--Continued

334955088322202. Local number L085. (USCE AB2)

LOCATION.--Lat 33°49'55", long 88°32'22", Hydrologic Unit 03160101, NW¼SW¼ sec.26, T.14 S., R.7 E., 0.6 northeast of Shivers High School in Aberdeen.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 146 ft.

DATUM.--Land-surface datum is about 195 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 4.50 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.98 ft below land-surface datum, May 15, 1985; lowest measured, 28.65 ft below land-surface datum, Aug. 26, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 13 | 27.23          | MAY 15 | 25.98          | AUG 26 | 28.65          |

334955088322203. Local number L086. (USCE AB2A)

LOCATION.--Lat 33°49'55", long 88°32'22", Hydrologic Unit 03160101, NW¼SW¼ sec.26, T.14 S., R.7 E., 0.6 mi northeast of Shivers High School in Aberdeen.

Owner: U. S. Army Corps of Engineers.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 119 ft.

DATUM.--Land-surface datum is about 195 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 4.00 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.00 ft below land-surface datum, Feb. 13, 1985; lowest measured, 28.70 ft below land-surface datum, Aug. 26, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 13 | 24.00          | MAY 15 | 26.22          | AUG 26 | 28.70          |

335149088305401. Local number L087. (USCE AB5)

LOCATION.--Lat 33°51'49", long 88°30'54", Hydrologic Unit 03160101, NE¼SE¼ sec.10, T.14 S., R.19 W., 3 mi northeast of Aberdeen.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 150 ft.

DATUM.--Land-surface datum is about 192 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.75 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.85 ft below land-surface datum, May 15, 1985; lowest measured, 2.91 ft below land-surface datum, Aug. 27, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 13 | 0.95           | MAY 15 | 0.85           | AUG 27 | 2.91           |

334951088321001. Local number L088. (USCE AB6)

LOCATION.--Lat 33°49'51", long 88°32'10", Hydrologic Unit 03160101, NW¼SW¼ sec.26, T.14 S., R.7 E., 0.75 mi north of Amory.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 70 ft.

DATUM.--Land-surface datum is about 190 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.55 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.55 ft below land-surface datum, Feb. 13, 1985; lowest measured, 22.85 ft below land-surface datum, Aug. 26, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 13 | 20.55          | MAY 15 | 21.06          | AUG 27 | 22.85          |



## MONROE COUNTY--Continued

334951088321002. Local number L089. (USCE A87)

LOCATION.--Lat 33°49'51", long 88°32'10", Hydrologic Unit 03160101, NW¼SW¼ sec.26, T.14 S., R.7 E., 0.75 mi north of Amory.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 133 ft.

DATUM.--Land-surface datum is 187.4 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.20 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.28 ft below land-surface datum, Feb. 13, 1985; lowest measured, 23.46 ft below land-surface datum, Aug. 26, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 13 | 20.28          | MAY 15 | 21.22          | AUG 26 | 23.46          |

335127088322101. Local number L090. (USCE GW70)

LOCATION.--Lat 33°51'27", long 88°32'21", Hydrologic Unit 03160101, SW¼SW¼ sec.14, T.14 S., R.7 E., 2 mi northeast of Shivers High School in Aberdeen.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 26 ft.

DATUM.--Land-surface datum is 193.3 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.40 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.20 ft below land-surface datum, Feb. 13, 1985; lowest measured, 3.60 ft below land-surface datum, Aug. 26, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 13 | 0.20           | MAY 14 | 1.44           | AUG 26 | 3.60           |

335008088303001. Local number L091. (USCE GW70A)

LOCATION.--Lat 33°50'08", long 88°30'30", Hydrologic Unit 03160101, NW¼NW¼ sec.23, T.14 S., R.19 W., 1.5 mi northeast of Aberdeen.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 27 ft.

DATUM.--Land-surface datum is about 193 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.35 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.35 ft below land-surface datum, Feb. 13, 1985; lowest measured, 3.54 ft below land-surface datum, Aug. 27, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 13 | 0.35           | MAY 15 | 2.07           | AUG 26 | 3.54           |

335158088291901. Local number L092. (USCE GW71)

LOCATION.--Lat 33°51'58", long 88°29'19", Hydrologic Unit 03160101, NE¼NW¼ sec.12, T.12 S., R.19 W., 4.75 mi northeast of Aberdeen.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 32 ft.

DATUM.--Land-surface datum is 225.4 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 0.50 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.36 ft below land-surface datum, May 15, 1985; lowest measured, 12.75 ft below land-surface datum, Aug. 26, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 13 | 10.70          | MAY 15 | 10.36          | AUG 26 | 12.75          |

## MONROE COUNTY--Continued

335207088285501. Local number L093. (USCE GW72)

LOCATION.--Lat 33°52'07", long 88°28'55", Hydrologic Unit 03160101, SE¼SE¼ sec.1, T.14 S., R.19 W., 3.3 mi north of intersection of State Highway 25 and 8.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 30 ft.

DATUM.--Land-surface datum is 220.8 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.40 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.80 ft below land-surface datum, Feb. 13, 1985; lowest measured, 5.06 ft below land-surface datum, Aug. 27, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 13 | 0.80           | MAY 15 | 1.94           | AUG 27 | 5.06           |

334617088302201. Local number P077. (USCE GW58)

LOCATION.--Lat 33°46'17", long 88°30'22", Hydrologic Unit 03160101, NW¼SW¼ sec.18 T.15 S., R.8 E., 4.3 mi southeast of Aberdeen.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 9 ft.

DATUM.--Land-surface datum is 203.3 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.40 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.44 ft below land-surface datum, Feb. 13, 1985; lowest measured, 3.46 ft below land-surface datum, Aug. 26, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 13 | 1.44           | MAY 15 | 2.09           | AUG 26 | 3.46           |

334026088291001. Local number Q083. (USCE GW50)

LOCATION.--Lat 33°40'26", long 88°29'10", Hydrologic Unit 03160101, SW¼NW¼ sec.13, T.16 S., R.19 W., 13 mi north-west of Columbus.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 9 ft.

DATUM.--Land-surface datum is 193.2 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.20 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.28 ft below land-surface datum, Feb. 12, 1985; lowest measured, 6.76 ft below land-surface datum, Aug. 26, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 12 | 4.28           | MAY 14 | 4.32           | AUG 26 | 6.76           |

334029088281101. Local number Q084. (USCE GW51)

LOCATION.--Lat 33°40'29", long 88°28'11", Hydrologic Unit 03160101, SW¼NW¼ sec.18, T.16 S., R.18 W., 4.6 mi south-west of Hamilton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 21 ft.

DATUM.--Land-surface datum is 204.9 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.20 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.20 ft below land-surface datum Feb. 12, 1985; lowest measured, 14.41 ft below land-surface datum, Aug. 26, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 12 | 11.20          | MAY 14 | 11.81          | AUG 26 | 14.41          |

## MONROE COUNTY--Continued

334030088273101. Local number Q085. (USCE GW52)

LOCATION.--Lat 33°40'30", long 88°27'31", Hydrologic Unit 03160101, SE¼NE¼ sec.18, T.16 S., R.18 W., 4.3 mi south-west of Hamilton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 19 ft.

DATUM.--Land-surface datum is 199.8 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.20 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.04 ft below land-surface datum, Feb. 12, 1985; lowest measured, 11.89 ft below land-surface datum, Aug. 26, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 12 | 8.04           | MAY 14 | 9.37           | AUG 26 | 11.89          |

334152088283701. Local number Q086. (USCE GW53)

LOCATION.--Lat 33°41'52", long 88°28'37", Hydrologic Unit 03160101, NW¼SE¼ sec.1, T.16 S., R.19 W., 3.2 mi south-west of Hamilton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 29 ft.

DATUM.--Land-surface datum is 180.8 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.55 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.10 ft below land-surface datum, Feb. 12, 1985; lowest measured, 11.87 ft below land-surface datum, Aug. 26, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 12 | 9.10           | MAY 14 | 9.77           | AUG 26 | 11.87          |

334225088271601. Local number Q087. (USCE GW54)

LOCATION.--Lat 33°42'25", long 88°27'16", Hydrologic Unit 03160101, NE¼NE¼ sec.6, T.16 S., R.18 W., 2.1 mi south of Hamilton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 18 ft.

DATUM.--Land-surface datum is 199.1 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.70 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.94 ft below land-surface datum, Feb. 12, 1985; lowest measured, 4.29 ft below land-surface datum, Aug. 26, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 12 | 0.94           | MAY 14 | 2.00           | AUG 26 | 4.29           |

334320088292501. Local number Q088. (USCE GW55)

LOCATION.--Lat 33°43'20", long 88°29'25", Hydrologic Unit 03160101, NE¼NE¼ sec.35, T.15 S., R.19 W., 2.8 mi west of Hamilton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 33 ft.

DATUM.--Land-surface datum is 179.2 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.23 ft above land-surface datum, Feb. 12, 1985; lowest measured, 3.46 ft below land-surface datum, Aug. 26, 1985.

WATER LEVEL, IN FEET ABOVE AND BELOW (-) LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 12 | 0.23           | MAY 14 | -1.83          | AUG 26 | -3.46          |

## MONROE COUNTY--Continued

304321088284401. Local number Q089. (USCE GW56)

LOCATION.--Lat 30°43'21", long 88°28'44", Hydrologic Unit 03160101, NW¼NE¼ sec.36, T.15 S., R.19 W., 2.5 mi south-west of Hamilton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 30 ft.

DATUM.--Land-surface datum is 185.5 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 1.70 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.30 ft below land-surface datum, Feb. 12, 1985; lowest measured, 5.52 ft below land-surface datum, Aug. 26, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 12 | 2.30           | MAY 14 | 4.18           | AUG 26 | 5.52           |

334330088280201. Local number Q090. (USCE GW57)

LOCATION.--Lat 33°43'30", long 88°28'02", Hydrologic Unit 03160101, SW¼SW¼ sec.30, T.15 S., R.18 W., 1.5 mi south-west of Hamilton.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 20 ft.

DATUM.--Land-surface datum is 205.4 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.38 ft below land-surface datum, Feb. 12, 1985; lowest measured, 5.75 ft below land-surface datum, Aug. 26, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 12 | 0.38           | MAY 14 | 2.60           | AUG 26 | 5.75           |

334709088292301. Local number Q091. (USCE GW59)

LOCATION.--Lat 33°47'09", long 88°29'23", Hydrologic Unit 03160101, NW¼SW¼ sec.1, T.15 S., R.19 W., 4.3 mi south-west of Aberdeen.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 42 ft.

DATUM.--Land-surface datum is 189.9 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.90 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.50 ft below land-surface datum, May 14, 1985; lowest measured, 21.98 ft below land-surface datum, Aug. 26, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 12 | 21.45          | MAY 14 | 19.50          | AUG 26 | 21.98          |

334720088282801. Local number Q092. (USCE GW60)

LOCATION.--Lat 33°47'20", long 88°28'28", Hydrologic Unit 03160101, SE¼NE¼ sec.1, T.15 S., R.19 W., 4.8 mi southeast of Aberdeen.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 21 ft.

DATUM.--Land-surface datum is 184.1 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.10 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.33 ft below land-surface datum, Feb. 12, 1985; lowest measured, 9.29 ft below land-surface datum, Aug. 26, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 12 | 4.33           | MAY 14 | 5.79           | AUG 26 | 9.29           |



## GROUND-WATER LEVELS IN THE TENNESSEE-TOMBIGBEE STUDY AREA

## MONROE COUNTY--Continued

334535088284801. Local number Q095. (USCE GW60A)

LOCATION.--Lat 33°45'35", long 88°28'48", Hydrologic Unit 03160101, SW¼NW¼ sec.13, T.15 S., R.19 W., 3.4 mi southwest of Lackey.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in, depth 24 ft.

DATUM.--Land-surface datum is about 184 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 0.80 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.80 ft below land-surface datum, Feb. 12, 1985; lowest measured, 7.50 ft below land-surface datum, Aug. 28, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE    | WATER<br>LEVEL |
|--------|----------------|--------|----------------|---------|----------------|
| FEB 14 | 0.80           | MAY 14 | 2.93           | AUG. 28 | 7.50           |

## PRENTISS COUNTY

344137088211001. Local number D027. (USCE MW1-1)

LOCATION.--Lat 34°41'37", long 88°21'10", Hydrologic Unit 03160101, NW¼NE¼ sec.33, T.4 S., R.9 E., 2.4 mi south of Cairo.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 242 ft.

DATUM.--Land-surface datum is about 510 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.10 ft above land-surface datum.

PERIOD OF RECORD.--September 1977, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 84.0 ft below land-surface datum, Sept. 6, 1977; lowest measured, 91.10 ft below land-surface datum, Nov. 30, 1982.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 89.84          | MAY 29 | 89.49          | AUG 23 | 90.10          |

344137088211002. Local number D028. (USCE MW1-2)

LOCATION.--Lat 34°41'37", long 88°21'10", Hydrologic Unit 03160101, NW¼NE¼ sec.33, T.4 S., R.9 E., 2.4 mi south of Cairo.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 158 ft.

DATUM.--Land-surface datum is about 510 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.45 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 73.43 ft below land-surface datum, May 29, 1985; lowest measured, 80.76 ft below land-surface datum, Feb. 22, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 80.76          | MAY 29 | 73.43          | AUG 23 | 73.90          |

344137088211003. Local number D029. (USCE MW1-3)

LOCATION.--Lat 34°41'37", long 88°21'10", Hydrologic Unit 03160101, NW¼NE¼ sec.33, T.4 S., R.9 E., 2.4 mi south of Cairo.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 63 ft.

DATUM.--Land-surface datum is about 510 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--September 1977, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 42.47 ft below land-surface datum, Aug. 23, 1985; lowest measured, 49.40 ft below land-surface datum, May 29, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 45.68          | MAY 29 | 49.40          | AUG 23 | 42.47          |



## PRENTISS COUNTY--Continued

344137088210904. Local number D030. (USCE MW1-4)

LOCATION.--Lat 34°41'37", long 88°21'09", Hydrologic Unit 03160101, NE¼ sec.33, T.4 S., R.9 E., 2.4 mi south of Cairo.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 285 ft.

DATUM.--Land-surface datum is about 510 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.40 ft above land-surface datum.

PERIOD OF RECORD.--October 1978, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 82.0 ft below land-surface datum, Oct. 18, 1978; lowest measured, 94.32 ft below land-surface datum, Aug. 23, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 94.26          | MAY 29 | 93.90          | AUG 23 | 94.32          |

344125088230801. Local number D031. (USCE MW2-1)

LOCATION.--Lat 34°41'25", long 88°23'08", Hydrologic Unit 03160101, NE¼SE¼ sec.31, T.4 S., R.9 E., 3.2 mi southwest of Cairo.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 270 ft.

DATUM.--Land-surface datum is about 440 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.65 ft above land-surface datum.

PERIOD OF RECORD.--July 1980, March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 35.0 ft below land-surface datum, July 15, 1980; lowest measured, 39.98 ft below land-surface datum, Aug. 23, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 6 | 39.43          | MAY 29 | 39.27          | AUG 23 | 39.98          |

344125088230802. Local number D032. (USCE MW2-2)

LOCATION.--Lat 34°41'25", long 88°23'08", Hydrologic Unit 03160101, NE¼SE¼ sec.31, T.4 S., R.9 E., 3.2 mi southwest of Cairo.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 220 ft.

DATUM.--Land-surface datum is about 440 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.70 ft above land-surface datum.

PERIOD OF RECORD.--July 1980, March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 36.0 ft below land-surface datum, July 15, 1980; lowest measured, 38.21 ft below land-surface datum, Aug. 23, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 6 | 37.68          | MAY 29 | 36.97          | AUG 23 | 38.21          |

344125088230803. Local number D033. (USCE MW2-3)

LOCATION.--Lat 34°41'25", long 88°23'08", Hydrologic Unit 03160101, NE¼SE¼ sec.31, T.4 S., R.9 E., 3.2 mi southwest of Cairo.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 181 ft.

DATUM.--Land-surface datum is about 440 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--July 1980, March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 36.0 ft below land-surface datum, July 15, 1980; lowest measured, 38.84 ft below land-surface datum, Aug. 23, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 6 | 38.27          | MAY 29 | 38.14          | AUG 23 | 38.84          |

## GROUND-WATER LEVELS IN THE TENNESSEE-TOMBIGBEE STUDY AREA

## PRENTISS COUNTY--Continued

344125088230804. Local number D034. (USCE MW2-4)

LOCATION.--Lat 34°41'25", long 88°23'08", Hydrologic Unit 03160101, NE¼SE¼ sec.31, T.4 S., R.9 E., 3.2 mi southwest of Cairo.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 128 ft.

DATUM.--Land-surface datum is about 440 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.10 ft above land-surface datum.

PERIOD OF RECORD.--July 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 35.0 ft below land-surface datum, July 15, 1980; lowest measured, 38.09 ft below land-surface datum, Mar. 6, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 6 | 38.09          | MAY 29 | 36.00          | AUG 23 | 37.65          |

344125088230805. Local number D035. (USCE MW2-5)

LOCATION.--Lat 34°41'25", long 88°23'08", Hydrologic Unit 03160101, NE¼SE¼ sec.31, T.4 S., R.9 E., 3.2 mi southwest of Cairo.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Tombigbee sand member of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 60 ft.

DATUM.--Land-surface datum is about 440 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.85 ft above land-surface datum.

PERIOD OF RECORD.--July 1980, March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.72 ft below land-surface datum, Mar. 6, 1985; lowest measured, 33.0 ft below land-surface datum, July 15, 1980.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 6 | 29.72          | MAY 29 | 29.97          | AUG 23 | 30.94          |

344456088224901. Local number D036. (USCE W1-1)

LOCATION.--Lat 34°44'56", long 88°22'49", Hydrologic Unit 06030005, SW¼NW¼ sec.8, T.4 S., R.9 E., 2.3 mi northwest of Cairo.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 371 ft.

DATUM.--Land-surface datum is about 580 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.10 ft above land-surface datum.

PERIOD OF RECORD.--July 1980, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 172.0 ft below land-surface datum, July 17, 1980; lowest measured, 185.59 ft below land-surface datum, Feb. 22, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 185.59         | MAY 29 | 184.73         | AUG 23 | 185.54         |

344456088224902. Local number D037. (USCE W1-2)

LOCATION.--Lat 34°44'56", long 88°22'49", Hydrologic Unit 06030005, SW¼NW¼ sec.8, T.4 S., R.9 E., 2 mi northwest of Cairo.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 280 ft.

DATUM.--Land-surface datum is about 580 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.85 ft above land-surface datum.

PERIOD OF RECORD.--July 1980, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 171.0 ft below land-surface datum, July 17, 1980; lowest measured, 185.59 ft below land-surface datum, Feb. 22, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 185.59         | MAY 29 | 183.98         | AUG 23 | 185.03         |

## PRENTISS COUNTY--Continued

344342088203701. Local number D039. (USCE W3-1)

LOCATION.--Lat 34°43'42", long 88°20'37", Hydrologic Unit 06030005, SE¼SW¼ sec.15, T.4 S., R.9 E., at Cairo.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 215 ft.

DATUM.--Land-surface datum is about 495 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 76.77 ft below land-surface datum, May 29, 1985; lowest measured, 78.12 ft below land-surface datum, Feb. 22, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 78.12          | MAY 29 | 76.77          | AUG 23 | 77.97          |

344342088203702. Local number D040. (USCE W3-2)

LOCATION.--Lat 34°43'42", long 88°20'37", Hydrologic Unit 06030005, SE¼SW¼ sec.15, T.4 S., R.9 E., at Cairo.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 180 ft.

DATUM.--Land-surface datum is about 495 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.9 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 80.08 ft below land-surface datum, May 29, 1985; lowest measured, 81.37 ft below land-surface datum, Feb. 22, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 81.37          | MAY 29 | 80.08          | AUG 23 | 81.07          |

344304088212701. Local number D041. (USCE W5-1)

LOCATION.--Lat 34°43'04", long 88°21'27", Hydrologic Unit 06030005, NE¼SW¼ sec.21, T.4 S., R.9 E., 0.8 mi southwest of Cairo.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 250 ft.

DATUM.--Land-surface datum is about 580 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.90 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 142.22 ft below land-surface datum, May 29, 1985; lowest measured, 143.11 ft below land-surface datum, Aug. 23, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 142.40         | MAY 29 | 142.22         | AUG 23 | 143.11         |

344304088212702. Local number D042. (USCE W5-2)

LOCATION.--Lat 34°43'04", long 88°21'27", Hydrologic Unit 06030005, NE¼SW¼ sec.21, T.4 S., R.9 E., 1 mi southwest of Cairo.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 192 ft.

DATUM.--Land-surface datum is about 580 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.1 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 112.74 ft below land-surface datum, Feb. 22, 1985; lowest measured, 113.61 ft below land-surface datum, Aug. 23, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 112.74         | MAY 29 | 113.08         | AUG 23 | 113.61         |

## GROUND-WATER LEVELS IN THE TENNESSEE-TOMBIGBEE STUDY AREA

## PRENTISS COUNTY--Continued

343924088201101. Local number H023. (USCE SW2-1)

LOCATION.--Lat 34°39'24", long 88°20'11", Hydrologic Unit 03160101, SW¼SE¼ sec.10, T.5 S., R.9 E.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Rocks of Paleozoic age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 533 ft.

DATUM.--Land-surface datum is about 480 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.35 ft above land-surface datum.

PERIOD OF RECORD.--October 1978, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 100.78 ft below land-surface datum, Nov. 30, 1982; lowest measured, 106.0 ft below land-surface datum, Oct. 18, 1978.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 102.48         | MAY 28 | 102.68         | AUG 23 | 102.91         |

343924088201102. Local number H025. (USCE SW2-2)

LOCATION.--Lat 34°39'24", long 88°20'11", Hydrologic Unit 03160101, SW¼SE¼ sec.10, T.5 S., R.9 E.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 256 ft.

DATUM.--Land-surface datum is about 480 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.10 ft above land-surface datum.

PERIOD OF RECORD.--October 1978, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 58.44 ft below land-surface datum, May 28, 1985; lowest measured, 90.0 ft below land-surface datum, Oct. 18, 1978.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 58.74          | MAY 28 | 58.44          | AUG 23 | 58.99          |

343924088201103. Local number H026. (USCE SW2-3)

LOCATION.--Lat 34°39'24", long 88°20'11", Hydrologic Unit 03160101, SW¼SE¼ sec.10, T.5 S., R.9 E., 4.1 mi west of Paden.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 217 ft.

DATUM.--Land-surface datum is about 480 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.95 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 42.40 ft below land-surface datum, May 28, 1985; lowest measured, 43.46 ft below land-surface datum, Feb. 22, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 43.46          | MAY 28 | 42.40          | AUG 23 | 43.22          |

343856088215501. Local number H027. (USCE SW3-1)

LOCATION.--Lat 34°38'56", long 88°21'55", Hydrologic Unit 03160101, SW¼NW¼ sec.16, T.5 S., R.9 E., 5.8 mi west of Paden.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 250 ft.

DATUM.--Land-surface datum is about 450 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.15 ft above land-surface datum.

PERIOD OF RECORD.--July 1980, March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 56.0 ft below land-surface datum, July 15, 1980; lowest measured, 64.40 ft below land-surface datum, Aug. 23, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 6 | 63.69          | MAY 29 | 63.86          | AUG 23 | 64.40          |



## PRENTISS COUNTY--Continued

343856088215502. Local number H028. (USCE SW3-2)

LOCATION.--Lat 34°38'56", long 88°21'55", Hydrologic Unit 03160101, SW¼NW¼ sec.16, T.5 S., R.9 E., 5.8 mi west of Paden.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 192 ft.

DATUM.--Land-surface datum is about 450 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--July 1980, March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 62.30 ft below land-surface datum, Mar. 6, 1985; lowest measured, 65.0 ft below land-surface datum, July 15, 1980.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 6 | 62.30          | MAY 29 | 62.69          | AUG 23 | 63.03          |

343856088215503. Local number H029. (USCE SW3-3)

LOCATION.--Lat 34°38'56", long 88°21'55", Hydrologic Unit 03160101, SW¼NW¼ sec.16, T.5 S., R.9 E., 5.8 mi west of Paden.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 132 ft.

DATUM.--Land-surface datum is about 450 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.20 ft above land-surface datum.

PERIOD OF RECORD.--July 1980, March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 62.38 ft below land-surface datum, Mar. 6, 1985; lowest measured, 65.0 ft below land-surface datum, July 15, 1980.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 6 | 62.38          | MAY 29 | 62.69          | AUG 23 | 63.06          |

343856088215504. Local number H030. (USCE SW3-4)

LOCATION.--Lat 34°38'56", long 88°21'55", Hydrologic Unit 03160101, SW¼NW¼ sec.16, T.5 S., R.9 E., 5.8 mi west of Paden.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 79 ft.

DATUM.--Land-surface datum is about 450 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.80 ft above land-surface datum.

PERIOD OF RECORD.--July 1980, March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 60.67 ft below land-surface datum, Mar. 6, 1985; lowest measured, 65.0 ft below land-surface datum, July 15, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 6 | 60.67          | MAY 29 | 61.36          | AUG 23 | 61.52          |

343927088201504. Local number H031. (USCE SW2-4)

LOCATION.--Lat 34°39'27", long 88°20'15", Hydrologic Unit 03160101, SW¼SE¼ sec.10, T.5 S., R.9 E., 4 mi west of Paden.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--McShan sand member of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 133 ft.

DATUM.--Land-surface datum is about 480 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.7 ft above land-surface datum.

PERIOD OF RECORD.--January 1978, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 55.26 ft below land-surface datum, Aug. 23, 1985; lowest measured 57.0 ft below land-surface datum, Jan. 1, 1978.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 55.66          | MAY 28 | 55.71          | AUG 23 | 55.26          |



## PRENTISS COUNTY--Continued

343924088195001. Local number H032. (USCE W6-1)

LOCATION.--Lat 34°39'24", long 88°19'50", Hydrologic Unit 03160101, SE¼SE¼ sec.10, T.5 S., R.9 E., 3.6 mi west of Paden.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 225 ft.

DATUM.--Land-surface datum is about 480 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.4 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 40.85 ft below land-surface datum, May 28, 1985; lowest measured, 41.82 ft below land-surface datum, Feb. 22, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 41.82          | MAY 28 | 40.85          | AUG 23 | 41.80          |

343924088195002. Local number H033. (USCE W6-2)

LOCATION.--Lat 34°39'24", long 88°19'50", Hydrologic Unit 03160101, SE¼SE¼ sec.10, T.5 S., R.9 E., 3.6 mi west of Paden.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 162 ft.

DATUM.--Land-surface datum is about 480 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.55 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 41.41 ft below land-surface datum, May 28, 1985; lowest measured, 41.80 ft below land-surface datum, Aug. 23, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 41.61          | MAY 28 | 41.41          | AUG 23 | 41.93          |

343924088195003. Local number H034. (USCE W6-3)

LOCATION.--Lat 34°39'24", long 88°19'50", Hydrologic Unit 03160101, SE¼SE¼ sec.10, T.5 S., R.9 E., 3.5 mi west of Paden.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 92 ft.

DATUM.--Land-surface datum is about 480 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.75 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 36.87 ft below land-surface datum, May 28, 1985; lowest measured, 37.25 ft below land-surface datum, Aug. 23, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 37.13          | MAY 28 | 36.87          | AUG 23 | 37.25          |

342900088201601. Local number M016. (USCE 53A)

LOCATION.--Lat 34°29'00", long 88°20'16", Hydrologic Unit 03160101, NW¼SE¼ sec.10, T.7 S., R.9 E., 15.7 mi south-east of Baldwyn.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 35 ft, cased to 30 ft.

DATUM.--Land-surface datum is about 332 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.4 ft above land-surface datum.

PERIOD OF RECORD.--May 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.31 ft below land-surface datum, Apr. 25, 1973; lowest measured, 10.24 ft below land-surface datum, Nov. 19, 1981.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 29 | 3.14           | JAN 30 | 1.20           | MAY 22 | 2.35           | AUG 21 | 3.76           |

## PRENTISS COUNTY--Continued

343201088204703. Local number M017. (USCE 43C)

LOCATION.--Lat 34°32'01", long 88°20'47", Hydrologic Unit 03160101, NW¼NW¼ sec.27, T.6 S., R.9 E., 14 mi southeast of Booneville.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 90 ft, cased to 85 ft.

DATUM.--Land-surface datum is about 445 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 1.2 ft above land-surface datum.

PERIOD OF RECORD.--May 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.83 ft below land-surface datum, May 23, 1980; lowest measured, 34.93 ft below land-surface datum, Dec. 15, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5   | 27.82 | 27.96 | 27.81 | 27.83 | 27.76 | 27.53 | 27.07 | 26.92 | 26.81 | 26.90 | 27.15 | 27.42 |
| 10  | 27.86 | 27.95 | 27.69 | 27.84 | 27.84 | 27.30 | 27.05 | 26.83 | 26.85 | 26.91 | 27.19 | 27.46 |
| 15  | 27.80 | 27.97 | 27.81 | 27.90 | 27.78 | 27.25 | 26.88 | 26.84 | 26.82 | 26.99 | 27.25 | 27.57 |
| 20  | 27.88 | 28.17 | 27.66 | 28.10 | 27.64 | 27.13 | 26.99 | 26.78 | 26.88 | 27.06 | 27.28 | 27.59 |
| 25  | 27.95 | 27.88 | 27.96 | 28.05 | 27.51 | 27.22 | 26.92 | 26.80 | 26.87 | 27.08 | 27.32 | 27.61 |
| EOM | 27.94 | 27.77 | 27.70 | 27.81 | 27.56 | 27.07 | 26.94 | 26.77 | 26.91 | 27.10 | 27.31 | 27.68 |

WTR YR 1985 MEAN 27.41 HIGH 26.74 MAY 17 LOW 28.17 NOV 20

343201088204702. Local number M018. (USCE 43B)

LOCATION.--Lat 34°32'01", long 88°20'47", Hydrologic Unit 03160101, NW¼NW¼ sec.27, T.6 S., R.9 E., 14 mi southeast of Booneville.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--McShan sand member of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 120 ft, cased to 110 ft.

DATUM.--Land-surface datum is about 460 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.2 ft above land-surface datum.

PERIOD OF RECORD.--May 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 43.52 ft below land-surface datum, May 22, 1985; lowest measured, 52.45 ft below land-surface datum, May 20, 1982.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 29 | 44.55          | JAN 30 | 44.54          | MAY 22 | 43.52          | AUG 20 | 43.88          |

24

342911088205201. Local number M019. (USCE 52A)

LOCATION.--Lat 34°29'11", long 88°20'52", Hydrologic Unit 03160101, NE¼SE¼ sec.9, T.7 S., R.9 E., 15.6 mi southeast of Baldwyn.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 40 ft, cased to 35 ft.

DATUM.--Land-surface datum is about 324 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.0 ft above land-surface datum.

PERIOD OF RECORD.--May 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.2 ft above land-surface datum, Apr. 25, 1973; lowest measured, 8.44 ft below land-surface datum, Aug. 29, 1984.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 29 | 5.93           | JAN 30 | 5.38           | MAY 22 | 5.64           | AUG 21 | 8.16           |

342917088212701. Local number M020. (USCE 51A)

LOCATION.--Lat 34°29'17", long 88°21'27", Hydrologic Unit 03160101, SE¼NW¼ sec.9, T.7 S., R.9 E., 15.5 mi southeast of Baldwyn.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 64 ft, cased to 59 ft.

DATUM.--Land-surface datum is about 356 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.0 ft above land-surface datum.

PERIOD OF RECORD.--May 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 30.24 ft below land-surface datum, Apr. 25, 1973; lowest measured, 35.22 ft below land-surface datum, Aug. 11, 1981.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 29 | 31.50          | JAN 30 | 31.56          | MAY 22 | 32.06          | AUG 21 | 33.36          |

## PRENTISS COUNTY--Continued

343152088213002. Local number M021. (USCE 41A)

LOCATION.--Lat 34°31'52", long 88°21'30", Hydrologic Unit 03160101, SE¼NW¼ sec.28, T.6 S., R.9 E., 16 mi east of Baldwyn.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 226 ft, cased to 206 ft.

DATUM.--Land-surface datum is about 480 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 1.4 ft above land-surface datum.

PERIOD OF RECORD.--May 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 134.65 ft below land-surface datum, July 12, 1973; lowest recorded, 154.02 ft below land-surface datum, Sept. 29, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5   | 152.48 | 152.22 | 152.07 | 151.97 | 152.00 | 152.19 | 152.21 | 152.40 | 152.74 | 153.12 | 153.51 | 153.66 |
| 10  | 152.44 | 152.25 | 152.07 | 151.97 | 152.07 | 152.36 | 152.42 | 152.40 | 152.80 | 153.20 | 153.56 | 153.70 |
| 15  | 152.35 | 152.33 | 152.09 | 151.97 | 152.08 | 152.35 | 152.29 | 152.43 | 152.82 | 153.24 | 153.62 | 153.74 |
| 20  | 152.38 | 152.22 | 152.08 | 152.02 | 152.12 | 152.38 | 152.40 | 152.44 | 152.84 | 153.27 | 153.57 | 153.98 |
| 25  | 152.26 | 152.21 | 152.08 | 151.98 | 152.16 | 152.30 | 152.28 | 152.47 | 152.90 | 153.27 | 153.58 | 153.98 |
| EOM | 152.31 | 152.01 | 152.08 | 151.97 | 152.17 | 152.21 | 152.39 | 152.47 | 152.93 | 153.28 | 153.64 | 154.02 |

WTR YR 1985 MEAN 152.60 HIGH 151.84 JAN 24 LOW 154.02 SEP 29

343152088213003. Local number M022. (USCE 41B)

LOCATION.--Lat 34°31'52", long 88°21'30", Hydrologic Unit 03160101, SE¼NW¼ sec.28, T.6 S., R.9 E., 16 mi east of Baldwyn.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 176 ft, cased to 166 ft.

DATUM.--Land-surface datum is about 480 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 1.7 ft above land-surface datum.

PERIOD OF RECORD.--May 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 71.30 ft below land-surface datum, June 19, 1980; lowest measured, 77.96 ft below land-surface datum, Nov. 25, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| 5   | 73.73 | 74.03 | 74.18 | 74.36 | 74.20 | 74.39 | 73.99 | 74.07 | 73.92 | 74.03 | 74.37 |     |
| 10  | 73.80 | 73.93 | 74.09 | 74.33 | 74.27 | 74.18 | 74.11 | 73.97 | 73.97 | 74.07 | 74.40 |     |
| 15  | 73.73 | 74.00 | 74.33 | 74.36 | 74.35 | 74.24 | 73.83 | 73.99 | 73.91 | 74.16 | 74.41 |     |
| 20  | 73.83 | 74.33 | 74.11 | 74.72 | 74.29 | 74.08 | 74.05 | 73.92 | 74.05 | 74.26 | 74.44 |     |
| 25  | 73.95 | 73.95 | 74.53 | 74.57 | 74.25 | 74.29 | 74.03 | 73.91 | 74.01 | 74.28 | ---   |     |
| EOM | 73.98 | 74.10 | 74.17 | 74.25 | 74.35 | 74.11 | 74.01 | 73.86 | 74.07 | 74.34 | ---   |     |

WTR YR 1985 MEAN 74.13 HIGH 73.66 OCT 3 LOW 74.78 JAN 21

343201088204701. Local number M023. (USCE 43A)

LOCATION.--Lat 34°32'01", long 88°20'47", Hydrologic Unit 03160101, NW¼NW¼ sec.27, T.6 S., R.9 E., 14 mi southeast of Booneville.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 170 ft, cased to 150 ft.

DATUM.--Land-surface datum is about 460 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.7 ft above land-surface datum.

PERIOD OF RECORD.--May 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 116.43 ft below land-surface datum, Apr. 25, 1973; lowest measured, 132.78 ft below land-surface datum, Nov. 18, 1983.

Obstruction. No measurement since August 29, 1984.

343201088194701. Local number M025. (USCE 43D)

LOCATION.--Lat 34°32'01", long 88°19'47", Hydrologic Unit 03160101, NW¼NW¼ sec.27, T.6 S., R.9 E., 14 mi southeast of Booneville.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 118 ft, cased to 108 ft.

DATUM.--Land-surface datum is about 460 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.8 ft above land-surface datum.

PERIOD OF RECORD.--January 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 42.38 ft below land-surface datum, Aug. 10, 1983; lowest measured, 54.16 ft below land-surface datum, Nov. 17, 1982.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| NOV 29 | 46.50       | JAN 30 | 46.60       | MAY 22 | 45.51       | AUG 20 | 45.87       |

## PRENTISS COUNTY--Continued

343150088205801. Local number M026. (USCE 42A)

LOCATION.--Lat 34°31'50", long 88°20'58", Hydrologic Unit 03160101, NE¼NE¼ sec.28, T.6 S., R.9 E., 16.3 mi east of Baldwyn.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 69 ft, cased to 59 ft.

DATUM.--Land-surface datum is about 420 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.7 ft above land-surface datum.

PERIOD OF RECORD.--January 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.03 ft below land-surface datum, May 22, 1985; lowest measured, 25.83 ft below land-surface datum, Nov. 17, 1982.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 29 | 19.85          | JAN 30 | 19.87          | MAY 22 | 18.03          | AUG 20 | 19.45          |

343150088205802. Local number M027. (USCE 428)

LOCATION.--Lat 34°31'50", long 88°20'58", Hydrologic Unit 03160101, NE¼NE¼ sec.28, T.6 S., R.9 E., 16.3 mi east of Baldwyn.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 49 ft, cased to 39 ft.

DATUM.--Land-surface datum is about 420 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--January 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.38 ft below land-surface datum, May 27, 1980; lowest measured, 25.90 ft below land-surface datum, Nov. 17, 1982.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 29 | 19.69          | JAN 30 | 19.78          | MAY 22 | 18.87          | AUG 20 | 19.77          |

342838088215001. Local number M028. (USCE GW123A)

LOCATION.--Lat 34°28'38", long 88°21'50", Hydrologic Unit 03160101, NW¼NW¼ sec.16, T.7 S., R.9 E., 6.25 mi southeast of Marietta.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Terraces, undifferentiated, of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 2 in, depth 23 ft, cased to 18 ft.

DATUM.--Land-surface datum is about 316 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.2 ft above land-surface datum.

PERIOD OF RECORD.--February 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.50 ft below land-surface datum, Feb. 14, 1981; lowest measured, 10.76 ft below land-surface datum, Nov. 19, 1981.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 29 | 4.75           | JAN 30 | 2.89           | MAY 22 | 3.54           | AUG 22 | 7.05           |

342851088233501. Local number M030. (USCE GW122)

LOCATION.--Lat 34°28'51", long 88°23'35", Hydrologic Unit 03160101, SW¼SE¼ sec.7, T.7 S., R.9 E. 7 mi south of East Prentiss Church.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 2.0 in, depth 23 ft.

DATUM.--Land-surface datum is about 330 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 2.0 in pipe, 2.65 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.31 ft below land-surface datum, Mar. 6, 1985; lowest measured, 5.69 ft below land-surface datum, Aug. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 6 | 3.31           | MAY 22 | 3.86           | AUG 21 | 5.69           |



## PRENTISS COUNTY--Continued

342755088203401. Local number M031. (USCE GW123)

LOCATION.--Lat 34°27'55", long 88°20'34", Hydrologic Unit 03160101, SE¼SW¼ sec.15, T.7 S., R.9 E., 4.5 mi south of Bay Springs Lock and Dam.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 2.0 in, depth 22 ft.

DATUM.--Land-surface datum is about 354 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 2.0 in pipe, 4.30 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.70 ft below land-surface datum, Mar. 6, 1985; lowest measured, 13.52 ft below land-surface datum, Aug. 20, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 6 | 10.70          | MAY 22 | 12.11          | AUG 20 | 13.52          |

342916088211001. Local number M032. (USCE GW124)

LOCATION.--Lat 34°29'16", long 88°21'10", Hydrologic Unit 03160101, SE¼NW¼ sec.9, T.7 S., R.9 E., 6 mi south of East Prentiss Church.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 2.0 in, depth 39 ft.

DATUM.--Land-surface datum is about 350 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 2.0 in pipe, 3.25 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 30.20 ft below land-surface datum, Aug. 21, 1985; lowest measured, 31.39 ft below land-surface datum, Mar. 6, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 6 | 31.39          | MAY 22 | 30.78          | AUG 21 | 30.20          |

## TISHOMINGO COUNTY

345335088175501. Local number A014. (USCE 80P169)

LOCATION.--Lat 34°53'35", long 88°17'55", Hydrologic Unit 06030005, SE¼NE¼ sec.24, T.2 S., R.9 E., 0.65 mi south of Doskie.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 3.0 in, depth 49 ft.

DATUM.--Land-surface datum is about 425 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 3.0 in pipe, 1.45 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.35 ft below land-surface datum, May 23, 1985; lowest measured, 20.78 ft below land-surface datum, Feb. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 20.78          | MAY 23 | 17.35          | AUG 22 | 18.81          |

345335088175202. Local number A015. (USCE 80P170)

LOCATION.--Lat 34°53'35", long 88°17'52", Hydrologic Unit 06030005, SE¼NE¼ sec.24, T.2 S., R.9 E., 0.65 mi south of Doskie.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 3.0 in, depth 38 ft.

DATUM.--Land-surface datum is about 425 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 3.0 in pipe, 2.15 ft above land-surface datum.

PERIOD OF RECORD.--May 1985 to current year.

EXTREME FOR PERIOD OF RECORD.--Highest water level measured, 17.14 ft below land-surface datum, May 23, 1985; lowest measured, 18.64 ft below land-surface datum, Aug. 22, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|
| MAY 23 | 17.14          | AUG 22 | 18.64          |



## TISHOMINGO COUNTY--Continued

345214088180001. Local number A016. (USCE 10DP176)

LOCATION.--Lat 34°52'14", long 88°18'00", Hydrologic Unit 06030005, NE¼NW¼ sec.36, T.2 S., R.9 E., 2.4 mi north of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4.0 in, depth 68 ft.

DATUM.--Land-surface datum is about 430 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 4.0 in pipe, 3.55 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.50 ft below land-surface datum, May 23, 1985; lowest measured, 19.54 ft below land-surface datum, Feb. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 19.54          | MAY 23 | 16.50          | AUG 22 | 17.85          |

345214088180002. Local number A017. (USCE 10DP177)

LOCATION.--Lat 34°52'14", long 88°18'00", Hydrologic Unit 06030005, NE¼NW¼ sec.36, T.2 S., R.9 E., 2.4 mi north of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4.0 in, depth 48 ft.

DATUM.--Land-surface datum is about 430 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 4.0 in pipe, 4.10 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.60 ft below land-surface datum, May 23, 1985; lowest measured, 20.05 ft below land-surface datum, Feb. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 20.05          | MAY 23 | 16.60          | AUG 22 | 18.15          |

345214088180003. Local number A018. (USCE 10DP178)

LOCATION.--Lat 34°52'14", long 88°18'00", Hydrologic Unit 06030005, NE¼NW¼ sec.36, T.2 S., R.9 E., 2.4 mi north of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4.0 in, depth 26 ft.

DATUM.--Land-surface datum is about 430 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 4.0 in pipe, 3.90 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.13 ft below land-surface datum, Feb. 21, 1985; lowest measured, 9.27 ft below land-surface datum, Aug. 22, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 5.13           | MAY 23 | 5.55           | AUG 22 | 9.27           |

345142088190101. Local number A019. (USCE 2MW16)

LOCATION.--Lat 34°51'42", long 88°19'01", Hydrologic Unit 06030005, NW¼SE¼ sec.35, T.2 S., R.9 E., 1.5 mi north of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 108 ft.

DATUM.--Land-surface datum is about 500 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.65 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 57.35 ft below land-surface datum, May 23, 1985; lowest measured, 58.54 ft below land-surface datum, Feb. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 58.54          | MAY 23 | 57.35          | AUG 22 | 58.21          |

## TISHOMINGO COUNTY--Continued

345142088190102. Local number A020. (USCE 2MW17)

LOCATION.--Lat 34°51'42", long 88°19'01", Hydrologic Unit 06030005, NW¼SE¼ sec.6, T.2 S., R.9 E., 1.5 mi north of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 119 ft.

DATUM.--Land-surface datum is about 500 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.6 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 57.83 ft below land-surface datum, May 23, 1985; lowest measured, 58.47 ft below land-surface datum, Feb. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 58.47          | MAY 23 | 57.83          | AUG 22 | 58.17          |

345142088190103. Local number A021. (USCE 2MW18)

LOCATION.--Lat 34°51'42", long 88°19'01", Hydrologic Unit 06030005, NW¼SE¼ sec.35, T.2 S., R.9 E.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 138 ft.

DATUM.--Land-surface datum is about 500 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.95 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 57.56 ft below land-surface datum, May 23, 1985; lowest measured, 58.25 ft below land-surface datum, Feb. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 58.25          | MAY 23 | 57.56          | AUG 22 | 57.98          |

344642088193801. Local number D036. (USCE 13A)

LOCATION.--Lat 34°46'42", long 88°19'38", Hydrologic Unit 06030005, SW¼NW¼ sec.35, T.3 S., R.9 E.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Rocks of Paleozoic age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in, depth 378 ft.

DATUM.--Land-surface datum is about 462 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 12 in pipe, 1.60 ft above land-surface datum.

PERIOD OF RECORD.--September 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.82 ft below land-surface datum, Sept. 1, 1972; lowest measured, 38.72 ft below land-surface datum, Feb. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 38.72          | MAY 23 | 37.24          | AUG 22 | 37.84          |

344643088182102. Local number D037. (USCE 14A)

LOCATION.--Lat 34°46'43", long 88°18'21", Hydrologic Unit 06030005, SE¼NW¼ sec.36, T.3 S., R.9 E., 4 mi south of Burnsville.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 184 ft.

DATUM.--Land-surface datum is about 545 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.0 ft above land-surface datum.

PERIOD OF RECORD.--March 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 67.59 ft below land-surface datum, Apr. 25, 1973; lowest measured, 78.52 ft below land-surface datum, May 19, 1981.

Obstruction. No measurement made since May 19, 1981.

## TISHOMINGO COUNTY--Continued

344638088200102. Local number D040. (USCE 12A)

LOCATION.--Lat 34°46'38", long 88°20'01", Hydrologic Unit 06030005, SE¼NE¼ sec.34, T.3 S., R.9 E., 4.5 mi southwest of Burnsville.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in, depth 190 ft.

DATUM.--Land-surface datum is about 485 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--March 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.98 ft below land-surface datum, Mar. 22, 1973; lowest measured, 98.96 ft below land-surface datum, Aug. 26, 1982.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| NOV 30 | 68.92       | JAN 31 | 56.22       | MAY 23 | 66.43       | AUG 22 | 67.31       |

344638088200103. Local number D041. (USCE 12B)

LOCATION.--Lat 34°46'38", long 88°20'01", Hydrologic Unit 06030005, SE¼NE¼ sec.34, T.3 S., R.9 E., 4.5 mi southwest of Burnsville.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in, depth 150 ft.

DATUM.--Land-surface datum is about 485 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--March 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.29 ft below land-surface datum, Mar. 22, 1973; lowest measured, 83.47 ft below land-surface datum, Aug. 26, 1982.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| NOV 30 | 64.79       | JAN 31 | 65.13       | MAY 23 | 62.90       | AUG 22 | 63.80       |

344638088200104. Local number D042. (USCE 12C)

LOCATION.--Lat 34°46'38", long 88°20'01", Hydrologic Unit 06030005, SE¼NE¼ sec.34, T.3 S., R.9 E., 4.5 mi southwest of Burnsville.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 88 ft, cased to 78 ft.

DATUM.--Land-surface datum is about 485 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 1.8 ft above land-surface datum.

PERIOD OF RECORD.--March 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.39 ft below land-surface datum, Mar. 22, 1973; low-recorded, 62.41 ft below land-surface datum, Aug. 25, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY         | OCT  | NOV   | DEC   | JAN   | FEB    | MAR   | APR   | MAY    | JUN | JUL | AUG   | SEP   |
|-------------|------|-------|-------|-------|--------|-------|-------|--------|-----|-----|-------|-------|
| 5           |      | ---   | 56.21 | 56.21 | 56.37  | 56.65 | 56.13 | 56.03  |     |     | ---   | 56.51 |
| 10          |      | ---   | 56.21 | 56.21 | 56.43  | 56.60 | 56.59 | 55.97  |     |     | ---   | 56.56 |
| 15          |      | ---   | 56.21 | 56.21 | 56.45  | 56.57 | 56.05 | 55.90  |     |     | ---   | 56.90 |
| 20          |      | ---   | 56.21 | 56.21 | 56.52  | 56.47 | 56.23 | 55.84  |     |     | ---   | 56.84 |
| 25          |      | ---   | 56.21 | 56.22 | 56.43  | 56.60 | 56.03 | ---    |     |     | 56.42 | 56.74 |
| EOM         |      | 56.11 | 56.21 | 56.19 | 56.61  | 56.31 | 56.01 | ---    |     |     | 56.46 | 56.80 |
| WTR YR 1985 | MEAN | 56.34 | HIGH  | 55.73 | MAY 17 | LOW   | 56.93 | SEP 28 |     |     |       |       |

344643088182103. Local number D043. (USCE 14B)

LOCATION.--Lat 34°46'43", long 88°18'21", Hydrologic Unit 06030005, SE¼NW¼ sec.36, T.3 S., R.9 E., 4 mi south of Burnsville.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 154 ft.

DATUM.--Land-surface datum is about 545 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.4 ft above land-surface datum.

PERIOD OF RECORD.--March 1972 to May 1985.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 67.51 ft below land-surface datum, Apr. 25, 1973; lowest measured, 89.63 ft below land-surface datum, Feb. 11, 1983.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|
| NOV 30 | 87.22       | JAN 31 | 87.32       | MAY 23 | 86.49       |

NOTE: WELL DESTROYED.

## TISHOMINGO COUNTY--Continued

344643088182104. Local number D044. (USCE 14C)

LOCATION.--Lat 34°46'43", long 88°18'21", Hydrologic Unit 06030005, SE¼NW¼ sec.36, T.3 S., R.9 E., 4 mi south of Burnsville.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 106 ft, cased to 100 ft.

DATUM.--Land-surface datum is about 545 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.2 ft above land-surface datum.

PERIOD OF RECORD.--March 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 65.63 ft below land-surface datum, Apr. 25, 1973; lowest measured, 80.57 ft below land-surface datum, Aug. 26, 1982.

Obstruction. No measurement made since March 8, 1983.

344642088193802. Local number D045. (USCE 13B)

LOCATION.--Lat 34°46'42", long 88°19'38", Hydrologic Unit 06030005, sec.35, T.3 S., R.9 E.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 3.0 in, depth 288 ft.

DATUM.--Land-surface datum is about 462 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 3.0 in pipe, 2.90 ft above land-surface datum.

PERIOD OF RECORD.--September 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.0 ft below land-surface datum, Sept. 1, 1972; lowest measured, 50.31 ft below land-surface datum, Feb. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 50.31          | MAY 23 | 46.58          | AUG 22 | 47.49          |

344642088193803. Local number D046. (USCE 13C)

LOCATION.--Lat 34°46'42", long 88°19'38", Hydrologic Unit 06030005, SE¼NW¼ sec.35, T.3 S., R.9 E.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12.0 in, depth 220 ft.

DATUM.--Land-surface datum is about 462 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 12.0 in pipe, 1.45 ft above land-surface datum.

PERIOD OF RECORD.--September 1972, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.49 ft below land-surface datum, Sept. 1, 1972; lowest measured, 35.71 ft below land-surface datum, Feb. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 35.71          | MAY 23 | 35.39          | AUG 22 | 35.40          |

344616088211801. Local number D050. (USCE 11C)

LOCATION.--Lat 34°46'16", long 88°21'18", Hydrologic Unit 06030005, SW¼SE¼ sec.33, T.3 S., R.9 E., 5.5 mi southwest of Burnsville.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 404 ft.

DATUM.--Land-surface datum is about 505 ft National Geodetic Vertical Datum of 1929. Top of casing, 2.6 ft above land-surface datum.

PERIOD OF RECORD.--January 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 97.65 ft below land-surface datum, Mar. 9, 1976; lowest measured, 118.96 ft below land-surface datum, Aug. 10, 1983.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 30 | 115.36         | JAN 31 | 116.00         | MAY 23 | 116.02         | AUG 24 | 117.56         |

## TISHOMINGO COUNTY--Continued

344617088211901. Local number D051. (USCE 110)

LOCATION.--Lat 34°46'17", long 88°21'19", Hydrologic Unit 06030005, SW¼SE¼ sec.33, T.3 S., R.9 E., 5.5 mi southwest of Burnsville.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 210 ft.

DATUM.--Land-surface datum is about 505 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.4 ft above land-surface datum.

PERIOD OF RECORD.--January 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.02 ft below land-surface datum, Mar. 9, 1976; lowest measured, 103.03 ft below land-surface datum, Jun. 1, 1983.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 30 | 92.20          | JAN 31 | 92.57          | MAY 23 | 92.40          | AUG 24 | 93.16          |

344910088185801. Local number D054. (USCE 3DP150)

LOCATION.--Lat 34°49'10", long 88°18'58", Hydrologic Unit 06030005, NE¼SE¼ sec.14, T.3 S., R.9 E., 1.3 mi south of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 3.0 in, depth 220 ft.

DATUM.--Land-surface datum is about 450 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 3.0 in pipe, 3.10 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.56 ft below land-surface datum, May 23, 1985; lowest measured, 29.99 ft below land-surface datum, Mar. 8, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 8 | 29.99          | MAY 23 | 27.56          | AUG 22 | 28.40          |

344910088185802. Local number D055. (USCE 3DP151)

LOCATION.--Lat 34°49'10", long 88°18'58", Hydrologic Unit 06030005, NE¼SE¼ sec.14, T.3 S., R.9 E., 1.4 mi southeast of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 3.0 in, depth 163 ft.

DATUM.--Land-surface datum is about 450 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 3.0 in pipe, 3.25 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.57 ft below land-surface datum, May 23, 1985; lowest measured, 29.99 ft below land-surface datum, Mar. 8, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 8 | 29.99          | MAY 23 | 27.57          | AUG 22 | 28.38          |

344910088185803. Local number D056. (USCE 3DP152)

LOCATION.--Lat 34°49'10", long 88°18'58", Hydrologic Unit 06030005, NE¼SE¼ sec.14, T.3 S., R.9 E., 1.4 mi southeast of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 3.0 in, depth 100 ft.

DATUM.--Land-surface datum is about 450 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 3.0 in pipe, 3.8 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.37 ft below land-surface datum, May 23, 1985; lowest measured, 34.5 ft below land-surface datum, Mar. 8, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 8 | 34.50          | MAY 23 | 31.37          | AUG 22 | 32.15          |



## TISHOMINGO COUNTY--Continued

344910088185804. Local number D057. (USCE 3DP153)

LOCATION.--Lat 34°49'10", long 88°18'58", Hydrologic Unit 06030005, NE¼SE¼ sec.14, T.3 S., R.9 E., 1.3 mi south of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 3.2 in, depth 77 ft.

DATUM.--Land-surface datum is about 450 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 3.2 in pipe, 3.45 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 33.59 ft below land-surface datum, May 23, 1985; lowest measured, 36.99 ft below land-surface datum, Mar. 8, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 8 | 36.99          | MAY 23 | 33.59          | AUG 22 | 34.32          |

344910088185805. Local number D058. (USCE 3DP154)

LOCATION.--Lat 34°49'10", long 88°18'58", Hydrologic Unit 06030005, NE¼SE¼ sec.14, T.3 S., R.9 E., 1.3 mi south of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 3.2 in, depth 50 ft.

DATUM.--Land-surface datum is about 450 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 3.2 in pipe, 3.15 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.67 ft below land-surface datum, May 23, 1985; lowest measured, 37.94 ft below land-surface datum, Mar. 8, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 8 | 35.35          | MAY 23 | 34.67          | AUG 22 | 37.94          |

345055088175601. Local number D059. (USCE 7DP167)

LOCATION.--Lat 34°50'55", long 88°17'56", Hydrologic Unit 06030005, NE¼SE¼ sec.1, T.3 S., R.9 E., 1.4 mi northeast of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 3.0 in, depth 88 ft.

DATUM.--Land-surface datum is about 435 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 3.0 in pipe, 3.4 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.26 ft below land-surface datum, May 23, 1985; lowest measured, 29.86 ft below land-surface datum, Feb. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 29.86          | MAY 23 | 26.26          | AUG 22 | 27.17          |

345055088175602. Local number D060. (USCE 7DP168)

LOCATION.--Lat 34°50'55", long 88°17'56", Hydrologic Unit 06030005, NE¼SE¼ sec.1, T.3 S. R.9 E., 1.4 mi northeast of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4.0 in, depth 43 ft.

DATUM.--Land-surface datum is about 435 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 4.0 in pipe, 3.45 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.87 ft below land-surface datum, May 23, 1985; lowest measured, 27.63 ft below land-surface datum, Feb. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 27.63          | MAY 23 | 23.87          | AUG 22 | 24.88          |

## TISHOMINGO COUNTY--Continued

344942088193901. Local number D062. (USCE W2-1)

LOCATION.--Lat 34°49'42", long 88°19'39", Hydrologic Unit 06030005, SW¼SW¼ sec.11, T.3 S., R.9 E., 0.8 mi south of U. S. Highway 72 and State Highway 365.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 280 ft.

DATUM.--Land-surface datum is about 500 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 62.47 ft below land-surface datum, May 23, 1985; lowest measured, 63.23 ft below land-surface datum, Feb. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 63.23          | MAR 23 | 62.47          | AUG 22 | 63.16          |

344942088193902. Local number D063. (USCE W2-2)

LOCATION.--Lat 34°49'42", long 88°19'39", Hydrologic Unit 06030005, SW¼SW¼ sec.11, T.3 S., R.9 E., 0.8 mi south of U. S. Highway 72 and State Highway 365.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 225 ft.

DATUM.--Land-surface datum is about 500 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.80 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.40 ft below land-surface datum, Feb. 21, 1985; lowest measured, 30.90 ft below land-surface datum, Aug. 22, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 28.40          | MAY 23 | 28.57          | AUG 22 | 30.90          |

344942088193903. Local number D064. (USCE W2-3)

LOCATION.--Lat 34°49'42", long 88°19'39", Hydrologic Unit 06030005, SW¼SW¼ sec.11, T.3 S., R.9 E., 1 mi south of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 172 ft.

DATUM.--Land-surface datum is about 500 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.1 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 60.15 ft below land-surface datum, May 23, 1985; lowest measured, 61.80 ft below land-surface datum, Feb. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 61.80          | MAY 23 | 60.15          | AUG 22 | 60.94          |

344942088193904. Local number D065. (USCE W2-4)

LOCATION.--Lat 34°49'42", long 88°19'39", Hydrologic Unit 06030005, SW¼SW¼ sec.11, T.3 S., R.9 E., 1 mi south of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 104 ft.

DATUM.--Land-surface datum is about 500 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.80 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.18 ft below land-surface datum, Feb. 21, 1985; lowest measured, 53.21 ft below land-surface datum, Aug. 22, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 31.18          | MAY 23 | 40.75          | AUG 22 | 53.21          |

## GROUND-WATER LEVELS IN THE TENNESSEE-TOMBIGBEE STUDY AREA

## TISHOMINGO COUNTY--Continued

345033088184001. Local number D066. (USCE 2MW-5)

LOCATION.--Lat 34°50'33", long 88°18'40", Hydrologic Unit 06030005, SW¼SW¼ sec.1, T.3 S., R.9 E., 0.8 mi northeast of JCT U. S. Highway 72 and State Highway 365.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 60 ft.

DATUM.--Land-surface datum is about 455 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.85 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.33 ft below land-surface datum, May 23, 1985; lowest measured, 23.72 ft below land-surface datum, Aug. 22, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 23.38          | MAY 23 | 22.33          | AUG 22 | 23.72          |

345033088184002. Local number D067. (USCE 2MW6)

LOCATION.--Lat 34°50'33", long 88°18'40", Hydrologic Unit 06030005, SW¼SW¼ sec.1, T.3 S., R.9 E., in Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 90 ft.

DATUM.--Land-surface datum is about 455 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.65 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.91 ft below land-surface datum, May 23, 1985; lowest measured, 26.40 ft below land-surface datum, Feb. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 26.40          | MAY 23 | 24.91          | AUG 22 | 26.08          |

345033088191102. Local number D068. (USCE 2MW7)

LOCATION.--Lat 34°50'33", long 88°19'11", Hydrologic Unit 06030005, SW¼SE¼ sec.2, T.3 S., R.9 E., at Burnsville Fire Dept.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 110 ft.

DATUM.--Land-surface datum is about 455 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.10 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 37.00 ft below land-surface datum, May 23, 1985; lowest measured, 38.10 ft below land-surface datum, Aug. 22, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 38.08          | MAY 23 | 37.00          | AUG 22 | 38.10          |

345033088191103. Local number D069. (USCE 2MW8)

LOCATION.--Lat 34°50'33", long 88°19'11", Hydrologic Unit 06030005, SW¼SE¼ sec.2, T.3 S., R.9 E., at Burnsville Fire Dept.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 131 ft.

DATUM.--Land-surface datum is about 455 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.30 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.33 ft below land-surface datum, May 23, 1985; lowest measured, 40.60 ft below land-surface datum, Feb. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 40.60          | MAY 23 | 39.33          | AUG 22 | 40.40          |

## TISHOMINGO COUNTY--Continued

344643088193701. Local number D072. (USCE 10P139)

LOCATION.--Lat 34°46'43", long 88°19'37", Hydrologic Unit 06030005, SW¼NW¼ sec.35, T.3 S., R.9 E., 4.2 mi south of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 3.0 in, depth 288 ft.

DATUM.--Land-surface datum is about 463 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 3.0 in pipe, 2.90 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 46.58 ft below land-surface datum, May 23, 1985; lowest measured, 50.31 ft below land-surface datum, Feb. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|
| FEB 21 | 50.31       | MAY 23 | 46.58       | AUG 22 | 47.49       |

344643088193801. Local number D075. (USCE 10P142)

LOCATION.--Lat 34°46'43", long 88°19'38", Hydrologic Unit 03160005, SW¼NW¼ sec.35, T.3 S., R.9 E., 4.2 mi south of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 58 ft.

DATUM.--Land-surface datum is about 463 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.20 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 42.66 ft below land-surface datum, May 23, 1985; lowest measured, 44.60 ft below land-surface datum, Feb. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|
| FEB 21 | 44.60       | MAY 23 | 42.66       | AUG 22 | 42.81       |

344643088173201. Local number E014. (USCE 15A)

LOCATION.--Lat 34°46'34", long 88°17'32", Hydrologic Unit 06030005, NW¼SW¼ sec.31, T.3 S., R.10 E., 4.2 mi south-east of Burnsville.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 2 in, depth 340 ft, cased to 320 ft.

DATUM.--Land-surface datum is about 540 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.4 ft above land-surface datum.

PERIOD OF RECORD.--March 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 77.19 ft below land-surface datum, Apr. 25, 1973; lowest measured, 114.85 ft below land-surface datum, Nov. 18, 1982.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| NOV 30 | 99.87       | JAN 31 | 99.87       | MAY 23 | 98.25       | AUG 22 | 98.90       |

344643088173202. Local number E015. (USCE 15B)

LOCATION.--Lat 34°46'34", long 88°17'32", Hydrologic Unit 06030005, NW¼SW¼ sec.31, T.3 S., R.10 E., 4.2 mi south-east of Burnsville.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 204 ft, cased to 184 ft.

DATUM.--Land-surface datum is about 540 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.2 ft above land-surface datum.

PERIOD OF RECORD.--March 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 51.08 ft below land-surface datum, Mar. 2, 1972; lowest measured, 69.84 ft below land-surface datum, Nov. 18, 1982.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| NOV 30 | 65.85       | JAN 31 | 65.64       | MAY 23 | 65.09       | AUG 22 | 65.89       |



## GROUND-WATER LEVELS IN THE TENNESSEE-TOMBIGBEE STUDY AREA

## TISHOMINGO COUNTY--Continued

344634088173203. Local number E016. (USCE 15C)

LOCATION.--Lat 34°46'34", long 88°17'32", Hydrologic Unit 06030005, NW¼SW¼ sec.31, T.3 S., R.10 E., 4.2 mi south-east of Burnsville.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 130 ft, cased to 120 ft.

DATUM.--Land-surface datum is about 540 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 1.2 ft above land-surface datum.

PERIOD OF RECORD.--March 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 45.66 ft below land-surface datum, Mar. 30, 1976; lowest recorded, 58.16 ft below land-surface datum, Nov. 25, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5   | 57.13 | 56.83 | 56.66 | 56.59 | 56.47 | 56.32 | 56.16 | 55.93 | 56.26 | 56.64 | 56.90 | 56.98 |
| 10  | 56.99 | 56.91 | 56.60 | 56.59 | 56.51 | 56.40 | 56.27 | 55.89 | 56.34 | 56.70 | 56.94 | 57.05 |
| 15  | 57.00 | 56.95 | 56.62 | 56.61 | 56.38 | 56.37 | 56.20 | 55.90 | 56.38 | 56.78 | 57.01 | 57.22 |
| 20  | 56.96 | 56.85 | 56.65 | 56.53 | 56.38 | 56.42 | 56.15 | 55.96 | 56.43 | 56.87 | 56.85 | 57.24 |
| 25  | 56.88 | 56.87 | 56.68 | 56.53 | 56.31 | 56.29 | 56.00 | 56.07 | 56.51 | 56.83 | 56.88 | 57.19 |
| EOM | 56.90 | 56.65 | 56.70 | 56.47 | 56.34 | 56.20 | 56.00 | 56.10 | 56.54 | 56.85 | 56.98 | 57.26 |

WTR YR 1985 MEAN 56.59 HIGH 55.87 MAY 13 LOW 57.27 SEP 22

344620088153001. Local number E022. (USCE NE2-1)

LOCATION.--Lat 34°46'20", long 88°15'30", Hydrologic Unit 06030005, SW¼SW¼ sec.33, T.3 S., R.10 E., 6.0 mi south-east of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Rocks of Paleozoic age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 440 ft.

DATUM.--Land-surface datum is about 480 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.75 ft above land-surface datum.

PERIOD OF RECORD.--December 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest and lowest water-level measured, 62.0 ft below land-surface datum, Dec. 2, 1977.

Obstruction: No measurement made since December 1, 1977.

344618088152602. Local number E026. (USCE NE2-2)

LOCATION.--Lat 34°46'18", long 88°15'26", Hydrologic Unit 06030005, SW¼SW¼ sec.33, T.3 S., R.10 E., 6.0 mi south-east of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 82 ft.

DATUM.--Land-surface datum is about 580 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.20 ft above land-surface datum.

PERIOD OF RECORD.--October 1978, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 62.53 ft below land-surface datum, May 23, 1985; lowest measured, 67.0 ft below land-surface datum, Oct. 18, 1978.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|
| FEB 21 | 62.56       | MAY 23 | 62.53       | AUG 22 | 63.02       |

344618088152603. Local number E027. (USCE NE2-3)

LOCATION.--Lat 34°46'18", long 88°15'26", Hydrologic Unit 06030005, SW¼SW¼ sec.33, T.3 S., R.10 E., 4.9 mi south-east of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 157 ft.

DATUM.--Land-surface datum is about 580 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.85 ft above land-surface datum.

PERIOD OF RECORD.--June 1980, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 65.04 ft below land-surface datum, May 23, 1985; lowest measured, 66.0 ft below land-surface datum, June 4, 1980.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|
| FEB 21 | 65.23       | MAY 23 | 65.04       | AUG 22 | 65.59       |



## TISHOMINGO COUNTY--Continued

344618088152604. Local number E028. (USCE NE2-4)

LOCATION.--Lat 34°46'18", long 88°15'26", Hydrologic Unit 06030005, SW¼SW¼ sec.33, T.3 S., R.10 E., 4.9 mi south-east of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 340 ft.

DATUM.--Land-surface datum is about 580 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.30 ft above land-surface datum.

PERIOD OF RECORD.--October 1978, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water-level measured, 75.0 ft below land-surface datum, Oct. 18, 1978; lowest measured, 119.40 ft below land-surface datum, Feb. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 119.40         | MAY 23 | 118.19         | AUG 22 | 118.96         |

344659088131201. Local number E030. (USCE NE3-1)

LOCATION.--Lat 34°46'59", long 88°13'12", Hydrologic Unit 06030005, SE¼SW¼ sec.26, T.3 S., R.10 E., 2.25 mi south of Iuka.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Rocks of Paleozoic age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 584 ft.

DATUM.--Land-surface datum is about 585 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.10 ft above land-surface datum.

PERIOD OF RECORD.--July 1980, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 90.0 ft below land-surface datum, July 14, 1980; lowest measured, 92.02 ft below land-surface datum, May 23, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 91.95          | MAY 23 | 92.02          | AUG 22 | 91.92          |

344659088131202. Local number E031. (USCE NE3-2)

LOCATION.--Lat 34°46'59", long 88°13'12", Hydrologic Unit 06030005, SW¼SW¼ sec.26, T.3 S., R.10 E., 2.26 mi south of Iuka.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Rocks of Paleozoic age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 450 ft.

DATUM.--Land-surface datum is about 585 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.15 ft above land-surface datum.

PERIOD OF RECORD.--July 1980, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 62.84 ft below land-surface datum, August 22, 1985; lowest measured, 84.0 ft below land-surface datum, July 14, 1980.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 64.18          | MAY 23 | 63.21          | AUG 22 | 62.84          |

344659088131203. Local number E032. (USCE NE3-3)

LOCATION.--Lat 34°46'59", long 88°13'12", Hydrologic Unit 06030005, SE¼SW¼ sec.26, T.3 S., R.10 E., 2.25 mi south of Iuka.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Rocks of Paleozoic age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 270.

DATUM.--Land-surface datum is about 585 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.95 ft above land-surface datum.

PERIOD OF RECORD.--November 1980, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 82.0 ft below land-surface datum, Nov. 14, 1980; lowest measured, 84.40 ft below land-surface datum, Feb. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 84.40          | MAY 23 | 83.04          | AUG 22 | 84.19          |

## TISHOMINGO COUNTY--continued

344659088131204. Local number E033. (USCE NE3-4)

LOCATION.--Lat 34°46'59", long 88°13'12", Hydrologic Unit 06030005, SE¼SW¼ sec.26, T.3 S., R.10 E., 2.2 mi south of Iuka.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 135 ft.

DATUM.--Land-surface datum is about 585 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.85 ft above land-surface datum.

PERIOD OF RECORD.--July 1980, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.28 ft below land-surface datum, May 23, 1985; lowest measured, 34.0 ft below land-surface datum, July 14, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 32.34          | MAY 23 | 32.28          | AUG 22 | 33.01          |

344659088131205. Local number E034. (USCE NE3-5)

LOCATION.--Lat 34°46'59", long 88°13'12", Hydrologic Unit 06030005, SE¼SW¼ sec.26, T.3 S., R.10 E., 2.2 mi south of Iuka.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 63 ft.

DATUM.--Land-surface datum is about 585 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.50 ft above land-surface datum.

PERIOD OF RECORD.--July 1980, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.07 ft below land-surface datum, Feb. 21, 1985; lowest measured, 31.0 ft below land-surface datum, July 14, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | LEVEL | DATE   | LEVEL | DATE   | LEVEL |
|--------|-------|--------|-------|--------|-------|
| FEB 21 | 28.07 | MAY 23 | 28.34 | AUG 22 | 28.82 |

344801088155101. Local number E040. (USCE E2-1)

LOCATION.--Lat 34°48'01", long 88°15'51", Hydrologic Unit 06030005, SE¼SW¼ sec.20, T.3 S., R.10 E., 4.2 mi south-east of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 156 ft.

DATUM.--Land-surface datum is about 560 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.60 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 82.21 ft below land-surface datum, May 23, 1985; lowest measured, 83.48 ft below land-surface datum, Aug. 22, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 82.70          | MAY 23 | 82.21          | AUG 22 | 83.48          |

344801088155102. Local number E041. (USCE E2-2)

LOCATION.--Lat 34°48'01", long 88°15'51", Hydrologic Unit 06030005, SW¼SE¼ sec.20, T.3 S., R.10 E., 4.2 mi south-east of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 107 ft.

DATUM.--Land-surface datum is about 560 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.85 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 82.44 ft below land-surface datum, May 23, 1985; lowest measured, 82.64 ft below land-surface datum, Aug. 22, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 82.55          | MAY 23 | 82.44          | AUG 22 | 82.64          |

## TISHOMINGO COUNTY--Continued

345058088170201. Local number E042. (USCE 2MW9)

LOCATION.--Lat 34°50'58", long 88°17'02", Hydrologic Unit 06030005, SE¼NW¼ sec.6, T.3 S., R.10 E., 2.1 mi northeast of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 36 ft.

DATUM.--Land-surface datum is about 445 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.15 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.63 ft below land-surface datum, May 23, 1985; lowest measured, 1.25 ft below land-surface datum, Aug. 22, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 0.83           | MAY 23 | 0.63           | AUG 22 | 1.25           |

345058088170202. Local number E043. (USCE 2MW10)

LOCATION.--Lat 34°50'58", long 88°17'02", Hydrologic Unit 06030005, SE¼NW¼ sec.6, T.3 S., R.10 E., 2.1 mi northeast of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 42 ft.

DATUM.--Land-surface datum is about 445 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.06 ft below land-surface datum, Feb. 21, 1985; lowest measured, 0.35 ft below land-surface datum, Aug. 22, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 0.06           | MAY 23 | 0.11           | AUG 22 | 0.35           |

345139088183501. Local number E044. (USCE 2MW13)

LOCATION.--Lat 34°51'39", long 88°18'35", Hydrologic Unit 06030006, NW¼SW¼ sec.36, T.2 S., R.9 E., 1.65 mi northeast of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 88 ft.

DATUM.--Land-surface datum is about 445 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.90 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.08 ft below land-surface datum, August 22, 1985; lowest measured 39.79 ft below land-surface datum, Feb. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 39.79          | MAY 23 | 38.93          | AUG 22 | 26.08          |

345139088183502. Local number E045. (USCE 2MW14)

LOCATION.--Lat 34°51'39", long 88°18'35", Hydrologic Unit 06030006, NW¼SW¼ sec.36, T.2 S., R.9 E., 1.65 mi northeast of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 99 ft.

DATUM.--Land-surface datum is about 445 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 38.87 ft below land-surface datum, May 23, 1985; lowest measured, 39.77 ft below land-surface datum, Feb. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 39.77          | MAY 23 | 38.87          | AUG 22 | 39.20          |

## GROUND-WATER LEVELS IN THE TENNESSEE-TOMBIGBEE STUDY AREA

## TISHOMINGO COUNTY--Continued

345139088183503. Local number E046. (USCE 2MW15)

LOCATION.--Lat 34°51'39", long 88°18'35", Hydrologic Unit 06030005, NW¼SW¼ sec.36, T.2 S., R.9 E., 1.65 mi northeast of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 128 ft.

DATUM.--Land-surface datum is about 445 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.40 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 47.43 ft below land-surface datum, Feb. 21, 1985; lowest measured, 50.75 ft below land-surface datum, Aug. 22, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 47.43          | MAY 23 | 49.73          | AUG 22 | 50.75          |

344155088194801. Local number G004. (USCE 21A)

LOCATION.--Lat 34°41'55", long 88°19'48", Hydrologic Unit 06030005, SW¼SW¼ sec.26, T.4 S., R.9 E., 2.2 mi southwest of Holcut.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 278 ft, cased to 268 ft.

DATUM.--Land-surface datum is about 585 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.75 ft above land-surface datum.

PERIOD OF RECORD.--September 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 103.54 ft below land-surface datum, May 17, 1984; lowest measured, 149.15 ft below land-surface datum, Jan. 31, 1979.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 30 | 41.51          | JAN 31 | 99.87          | MAY 29 | 103.09         | AUG 23 | 106.06         |

344155088194802. Local number G005. (USCE 21B)

LOCATION.--Lat 34°41'55", long 88°19'48", Hydrologic Unit 06030005, SW¼SW¼ sec.26, T.4 S., R.9 E., 2.2 mi southwest of Holcut.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 235 ft.

DATUM.--Land-surface datum is about 585 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--September 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 99.90 ft below land-surface datum, Aug. 30, 1984; lowest measured, 138.50 ft below land-surface datum, Jan. 31, 1979.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 30 | 103.68         | JAN 31 | 103.49         | MAY 29 | 107.18         | AUG 23 | 109.09         |

344110088151002. Local number G013. (USCE 35A)

LOCATION.--Lat 34°41'10", long 88°15'10", Hydrologic Unit 03160101, NE¼SW¼ sec.33, T.4 S., R.10 E., 2.0 mi north-east of Paden.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 300 ft, cased to 260 ft.

DATUM.--Land-surface datum is about 600 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing 0.3 ft above land-surface datum.

PERIOD OF RECORD.--July 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 106.68 ft below land-surface datum, May 23, 1974; lowest measured, 130.29 ft below land-surface datum, May 5, 1979.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 29 | 119.24         | JAN 31 | 120.19         | MAY 22 | 119.18         | AUG 21 | 118.69         |



## TISHOMINGO COUNTY--Continued

344110088151003. Local number G014. (USCE 35B)

LOCATION.--Lat 34°41'10", long 88°15'10", Hydrologic Unit 03160101, NE¼SW¼ sec.33, T.4 S., R.10 E., 2.0 mi northeast of Paden.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sands of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 203 ft, cased to 198 ft.

DATUM.--Land-surface datum is about 600 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.5 ft above land-surface datum.

PERIOD OF RECORD.--July 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 98.22 ft below land-surface datum, Mar. 6, 1976; lowest measured, 102.54 ft below land-surface datum, Nov. 18, 1982.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 29 | 101.40         | JAN 31 | 101.07         | MAY 22 | 100.58         | AUG 21 | 101.86         |

344253088162802. Local number G015. (USCE 25A)

LOCATION.--Lat 34°42'53", long 88°16'28", Hydrologic Unit 06030006, NW¼SW¼ sec.20, T.4 S., R.10 E., 1.8 mi south-east of Holcut.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 235 ft, cased to 230 ft.

DATUM.--Land-surface datum is about 610 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.4 ft above land-surface datum.

PERIOD OF RECORD.--September 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 92.37 ft below land-surface datum, June 25, 1975; lowest measured, 126.28 ft below land-surface datum, Aug. 25, 1982.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 29 | 116.69         | JAN 31 | 116.75         | MAY 22 | 116.09         | AUG 21 | 116.40         |

344253088162803. Local number G016. (USCE 25B)

LOCATION.--Lat 34°42'53", long 88°16'28", Hydrologic Unit 06030006, NW¼SW¼ sec.20, T.4 S., R.10 E., 1.8 mi south-east of Holcut.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 200 ft, cased to 190 ft.

DATUM.--Land-surface datum is about 610 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.4 ft above land-surface datum.

PERIOD OF RECORD.--August 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 89.87 ft below land-surface datum, July 13, 1973; lowest measured, 113.20 ft below land-surface datum, May 21, 1982.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 29 | 103.82         | JAN 31 | 103.92         | MAY 22 | 103.62         | AUG 21 | 103.78         |

344302088153802. Local number G017. (USCE 26A)

LOCATION.--Lat 34°43'02", long 88°15'38", Hydrologic Unit 06030006, NE¼SE¼ sec.20, T.4 S., R.10 E., 2.5 mi south-east of Holcut.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 2 in, depth 250 ft, cased to 210 ft.

DATUM.--Land-surface datum is about 565 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.4 ft above land-surface datum.

PERIOD OF RECORD.--August 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.60 ft below land-surface datum, Mar. 4, 1976; lowest measured, 59.68 ft below land-surface datum, Aug. 25, 1982.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 29 | 53.67          | JAN 31 | 53.37          | MAY 22 | 52.64          | AUG 21 | 52.89          |



## TISHOMINGO COUNTY--Continued

344302088153803. Local number G018. (USCE 268)

LOCATION.--Lat 34°43'02", long 88°15'38", Hydrologic Unit 06030006, NE¼SE¼ sec.20, T.4 S., R.10 E., 2.5 mi south-east of Holcut.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 127 ft, cased to 122 ft.

DATUM.--Land-surface datum is about 565 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.4 ft above land-surface datum.

PERIOD OF RECORD.--August 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.00 ft below land-surface datum, Mar. 12, 1980; lowest measured, 47.41 ft below land-surface datum, Nov. 18, 1982.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 29 | 43.05          | JAN 31 | 44.12          | MAY 22 | 43.76          | AUG 21 | 43.96          |

344302088153804. Local number G019. (USCE 26C)

LOCATION.--Lat 34°43'02", long 88°15'38", Hydrologic Unit 06030006, NE¼SE¼ sec.20, T.4 S., R.10 E., 2.5 mi south-east of Holcut.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 2 in, depth 72 ft, cased to 67 ft.

DATUM.--Land-surface datum is about 565 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.5 ft above land-surface datum.

PERIOD OF RECORD.--August 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 35.21 ft below land-surface datum, Apr. 25, 1973; lowest measured, 45.76 ft below land-surface datum, Nov. 18, 1982.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 29 | 42.77          | JAN 31 | 42.50          | MAY 22 | 43.76          | AUG 21 | 43.96          |

344228088173901. Local number G023. (USCE 23G)

LOCATION.--Lat 34°42'28", long 88°17'39", Hydrologic Unit 06030005, NW¼NW¼ sec.30, T.4 S., R.10 E., 1.3 mi southeast of Holcut.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 2.0 in, depth 260 ft.

DATUM.--Land-surface datum is 601.3 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 2.0 in pipe, 0.40 ft above land-surface datum.

PERIOD OF RECORD.--March 1972 to July 1983, March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 97.02 ft below land-surface datum, Feb. 25, 1975; lowest measured, 172.23 ft below land-surface datum, Mar. 28, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| MAR 28 | 172.23         | MAY 29 | 170.35         | AUG 24 | 171.08         |

344234088153402. Local number G032. (USCE 23L)

LOCATION.--Lat 34°42'34", long 88°15'34", Hydrologic Unit 03160101, NW¼NW¼ sec.30, T.4 S., R.10 E., 1.3 mi south-east of Holcut.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in, depth 126 ft, cased to 86 ft.

DATUM.--Land-surface datum is about 563 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.0 ft above land-surface datum.

PERIOD OF RECORD.--December 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 59.16 ft below land-surface datum, May 31, 1973; lowest measured, dry, Nov. 7, 1980.

NOTE: Well reported dry since Nov. 7, 1980.

## TISHOMINGO COUNTY--Continued

344230088173402. Local number G033. (USCE 23D)

LOCATION.--Lat 34°42'30", long 88°17'34", Hydrologic Unit 06030005, NW¼NW¼ sec.30, T.4 S., R.9 E., 1.3 mi southeast of Halcut.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in x 2 in, depth 145 ft.

DATUM.--Land-surface datum is 590.2 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 4.0 in pipe, 1.5 ft above land-surface datum.

PERIOD OF RECORD.--September 1971 to July 1983, March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest and lowest water level measured, 86.20 ft below land-surface datum, Sept. 1, 1971, lowest measured, 144.70 ft below land-surface datum, Aug. 29, 1980.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|
| MAR 28 | DRY         | MAY 29 | DRY         | AUG 24 | DRY         |

344218088184301. Local number G038. (USCE 22A)

LOCATION.--Lat 34°42'18", long 88°18'43", Hydrologic Unit 03160101, SW¼NW¼ sec.25, T.4 S., R.9 E., 2 mi south of Halcut.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 360 ft, cased to 320 ft.

DATUM.--Land-surface datum is about 625 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.6 ft above land-surface datum.

PERIOD OF RECORD.--February 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 151.12 ft below land-surface datum, Mar. 9, 1976; lowest measured, 191.89 ft below land-surface datum, Nov. 18, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVEL

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| NOV 30 | 183.67      | JAN 31 | 183.80      | MAY 29 | 182.97      | AUG 23 | 183.23      |

344218088184302. Local number G040. (USCE 22B)

LOCATION.--Lat 34°42'18", long 88°18'43", Hydrologic Unit 03160101, NW¼SW¼ sec.25, T.4 S., R.9 E., 2.0 mi south of Halcut.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 240 ft, cased to 230 ft.

DATUM.--Land-surface datum is about 625 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.9 ft above land-surface datum.

PERIOD OF RECORD.--February 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 142.33 ft below land-surface datum, Mar. 9, 1976; lowest measured, 176.38 ft below land-surface datum, Aug. 26, 1982.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| NOV 30 | 174.28      | JAN 31 | 174.29      | MAY 29 | 173.99      | AUG 23 | 174.33      |

344228088173902. Local number G041. (USCE 23N)

LOCATION.--Lat 34°42'28", long 88°17'39", Hydrologic Unit 06030005, NW¼NW¼ sec.30, T.4 S., R.10 E., 1.3 mi southeast of Halcut.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--McShan Sand Member of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in x 2 in, depth 200 ft.

DATUM.--Land-surface datum is about 600 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 4.0 in pipe, 0.50 ft above land-surface datum.

PERIOD OF RECORD.--February 1972 to July 1983, March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 99.16 ft below land-surface datum, June 25, 1975; lowest measured, 163.85 ft below land-surface datum, Mar. 28, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|
| MAR 28 | 163.85      | MAY 29 | 161.93      | AUG 24 | 161.69      |

## TISHOMINGO COUNTY--Continued

344228088173903. Local number G042. (USCE 230)

LOCATION.--Lat 34°42'28", long 88°17'39", Hydrologic Unit 03160101, NW¼NW¼ sec.30, T.4 S., R.10 E., 1.3 mi south-east of Holcut.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 60 ft, cased to 50 ft.

DATUM.--Land-surface datum is about 561 ft, National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 2.1 ft above land-surface datum.

PERIOD OF RECORD.--March 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 41.13 ft below land-surface datum, Dec. 4, 1975; lowest measured, dry, Feb. 15, 1981.

NOTE: Well reported dry since Feb. 15, 1981.

344356088185701. Local number G043. (USCE 90P171)

LOCATION.--Lat 34°43'56", long 88°18'57", Hydrologic Unit 06030005, NE¼SE¼ sec.14, T.4 S., R.9 E., 1.85 mi east of Cairo.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 3.5 in, depth 379 ft.

DATUM.--Land-surface datum is about 552 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 3.5 in pipe, 1.40 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 126.95 ft below land-surface datum, Aug. 24, 1985; lowest measured, 129.09 ft below land-surface datum, Mar. 8, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 8 | 129.09         | MAY 29 | 127.24         | AUG 24 | 126.95         |

344244088174401. Local number G078. (USCE 6DP162A)

LOCATION.--Lat 34°42'44", long 88°17'44", Hydrologic Unit 06030005, SE¼SE¼ sec.24, T.4 S., R.9 E., 3.1 mi southeast of Cairo.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4.0 in, depth 332 ft.

DATUM.--Land-surface datum is about 590 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 4.0 in pipe, 0.75 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 141.78 ft below land-surface datum, Aug. 24, 1985; lowest measured, 145.20 ft below land-surface datum, May 29, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 8 | 142.46         | MAY 29 | 145.20         | AUG 24 | 141.78         |

344244088174402. Local number G079. (USCE 6DP163)

LOCATION.--Lat 34°42'44", long 88°17'44", Hydrologic Unit 06030005, SE¼SE¼ sec.24, T.4 S., R.9 E., 2 mi southeast of New Lebanon Church.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4.0 in, depth 222 ft.

DATUM.--Land-surface datum is about 590 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 4.0 in pipe, 1.40 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 143.48 ft below land-surface datum, May 29, 1985; lowest measured, 146.26 ft below land-surface datum, Mar. 8, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 8 | 146.26         | MAY 29 | 143.48         | AUG 24 | 144.22         |

## TISHOMINGO COUNTY--Continued

344244088174403. Local number G080. (USCE 6DP164)

LOCATION.--Lat 34°42'44", long 88°17'44", Hydrologic Unit 06030005, SE¼SE¼ sec.24, T.4 S., R.9 E., 2 mi southeast of New Labanon Church.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4.0 in, depth 125 ft.

DATUM.--Land-surface datum is about 590 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 4.0 in pipe, 1.8 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 98.90 ft below land-surface datum, Mar. 8, 1985; lowest measured, dry, May 29, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 8 | 98.90          | MAY 29 | DRY            | AUG 24 | DRY            |

344244088174404. Local number G081. (USCE 6P165)

LOCATION.--Lat 34°42'44", long 88°17'44", Hydrologic Unit 06030005, SE¼SE¼ sec.24, T.4 S., R.9 E., 3.1 mi southeast of Cairo.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 3.0 in, depth 73 ft.

DATUM.--Land-surface datum is about 573 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 3.0 in pipe, 1.80 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 8 | DRY            | MAY 23 | DRY            | AUG 24 | DRY            |

344606088161303. Local number G085. (USCE NE1-3)

LOCATION.--Lat 34°46'06", long 88°16'13", Hydrologic Unit 06030005, NE¼NW¼ sec.5, T.4 S., R.10 E., 5.7 mi southeast of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 3.0 in, depth 65 ft.

DATUM.--Land-surface datum is about 495 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 3.0 in pipe, 3.20 ft above land-surface datum.

PERIOD OF RECORD.--June 1980, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.57 ft above land-surface datum, May 23, 1985; lowest measured, 2.40 ft above land-surface datum, Feb. 21, 1985.

## WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 2.40           | MAY 23 | 4.57           | AUG 22 | 4.10           |

344328088144401. Local number G086. (USCE ME1-1)

LOCATION.--Lat 34°43'28", long 88°14'44", Hydrologic Unit 06030005, NE¼NE¼ sec.21, T.4 S., R.10 E., 6 mi north of Tishomingo.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 204 ft.

DATUM.--Land-surface datum is about 590 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.20 ft above land-surface datum.

PERIOD OF RECORD.--July 1980, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 50.15 ft below land-surface datum, May 23, 1985; lowest measured, 52.0 ft below land-surface datum, July 15, 1980.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 50.35          | MAY 23 | 50.15          | AUG 21 | 50.62          |



## GROUND-WATER LEVELS IN THE TENNESSEE-TOMBIGBEE STUDY AREA

## TISHOMINGO COUNTY--Continued

344328088144402. Local number G087. (USCE ME1-2)

LOCATION.--Lat 34°43'28", long 88°14'44", Hydrologic Unit 06030006, NE¼NE¼ sec.21, T.4 S., R.10 E., 6 mi north of Tishomingo.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 129 ft.

DATUM.--Land-surface datum is about 560 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.10 ft above land-surface datum.

PERIOD OF RECORD.--July 1980, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 41.00 ft below land-surface datum, May 23, 1985; lowest measured, 43.0 ft below land-surface datum, July 15, 1980.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|
| FEB 21 | 41.14       | MAY 23 | 41.00       | AUG 21 | 41.58       |

344328088144403. Local number G088. (USCE ME1-3)

LOCATION.--Lat 34°43'28", long 88°14'44", Hydrologic Unit 06030006, NE¼NE¼ sec.21, T.4 S., R.10 E., 6.7 mi south-west of Iuka.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 71 ft.

DATUM.--Land-surface datum is about 560 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.10 ft above land-surface datum.

PERIOD OF RECORD.--July 1980, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 40.57 ft below land-surface datum, Feb. 21, 1985; lowest measured, 44.0 ft below land-surface datum, July 15, 1980.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|
| FEB 21 | 40.57       | MAY 23 | 41.45       | AUG 21 | 41.99       |

344347088131701. Local number G092. (USCE ME2-1)

LOCATION.--Lat 34°43'47", long 88°13'17", Hydrologic Unit 06030006, NW¼SW¼ sec.14, T.4 S., R.10 E., 6.65 mi north of Tishomingo.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 162 ft.

DATUM.--Land-surface datum is about 560 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.90 ft above land-surface datum.

PERIOD OF RECORD.--July 1980, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.36 ft below land-surface datum, May 23, 1985; lowest measured, 30.0 ft below land-surface datum, July 16, 1980.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|
| FEB 21 | 28.47       | MAY 23 | 28.36       | AUG 21 | 29.11       |

344347088131702. Local number G093. (USCE ME2-2)

LOCATION.--Lat 34°43'47", long 88°13'17", Hydrologic Unit 06030006, NW¼SW¼ sec.14, T.4 S., R.10 E., 6.65 mi north of Tishomingo.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 67 ft.

DATUM.--Land-surface datum is about 560 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.45 ft above land-surface datum.

PERIOD OF RECORD.--July 1980, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.80 ft below land-surface datum, Feb. 21, 1985; lowest measured, 11.0 ft below land-surface datum, July 16, 1980

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|
| FEB 21 | 8.80        | MAY 23 | 9.15        | AUG 29 | 9.52        |



## TISHOMINGO COUNTY--Continued

344358088115401. Local number G094. (USCE ME3-1)

LOCATION.--Lat 34°43'58", long 88°11'54", Hydrologic Unit 06030006, SW¼NE¼ sec.13, T.4 S., R.10 E., 3 mi south of Iuka.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Rocks of Paleozoic age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 466 ft.

DATUM.--Land-surface datum is about 517 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.90 ft above land-surface datum.

PERIOD OF RECORD.--July 1980, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.44 ft below land-surface datum, May 23, 1985; lowest measured, 31.0 ft below land-surface datum, July 16, 1980.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 5.68           | MAY 23 | 5.44           | AUG 21 | 5.49           |

344358088115402. Local number G095. (USCE ME3-2)

LOCATION.--Lat 34°43'58", long 88°11'54", Hydrologic Unit 06030006, SW¼NE¼ sec.13, T.4 S., R.10 E., 3 mi south of Iuka.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 93 ft.

DATUM.--Land-surface datum is about 517 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.90 ft above land-surface datum.

PERIOD OF RECORD.--July 1980, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.36 ft below land-surface datum, May 23, 1985; lowest measured, 16.0 ft below land-surface datum, July 16, 1980.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 14.55          | MAY 23 | 14.36          | AUG 21 | 15.11          |

344131088132001. Local number G099. (USCE SE1-1)

LOCATION.--Lat 34°41'31", long 88°13'20", Hydrologic Unit 06030006, SW¼NW¼ sec.35, T.4 S., R.10 E., 3.8 mi north of Tishomingo.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Rocks of Paleozoic age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 344 ft.

DATUM.--Land-surface datum is about 560 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.30 ft above land-surface datum.

PERIOD OF RECORD.--July 1980, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 45.0 ft below land-surface datum, July 14, 1980; lowest measured, 52.13 ft below land-surface datum, Feb. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 52.13          | MAY 23 | 51.72          | AUG 21 | 51.37          |

344131088132002. Local number G100. (USCE SE1-2)

LOCATION.--Lat 34°41'31", long 88°13'20", Hydrologic Unit 06030006, SW¼NW¼ sec.35, T.4 S., R.10 E., 3.8 mi north of Tishomingo.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 218 ft.

DATUM.--Land-surface datum is about 560 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.70 ft above land-surface datum.

PERIOD OF RECORD.--July 1980, February to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 55.75 ft below land-surface datum, May 23, 1985; lowest measured, 58.0 ft below land-surface datum, July 14, 1980.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 55.76          | MAY 23 | 55.75          | AUG 21 | 56.05          |

## GROUND-WATER LEVELS IN THE TENNESSEE-TOMBIGBEE STUDY AREA

## TISHOMINGO COUNTY--Continued

344131088132003. Local number G101. (USCE SE1-3)

LOCATION.--Lat 34°41'31", long 88°13'20", Hydrologic Unit 06030006, SW¼NW¼ sec.35, T.4 S., R.10 E., 3.85 mi north of Tishomingo.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--McShan Sand Member of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 130 ft.

DATUM.--Land-surface datum is about 560 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.10 ft above land-surface datum.

PERIOD OF RECORD.--July 1980, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 44.10 ft below land-surface datum, Aug. 21, 1985; lowest measured, 45.88 ft below land-surface datum, Feb. 21, 1985

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 45.88          | MAY 23 | 45.49          | AUG 21 | 44.10          |

344131088132004. Local number G102. (USCE SE1-4)

LOCATION.--Lat 34°41'31", long 88°13'20", Hydrologic Unit 06030006, SW¼NW¼ sec.35, T.4 S., R.10 E., 3.8 mi north of Tishomingo.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 73 ft.

DATUM.--Land-surface datum is about 560 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.30 ft above land-surface datum.

PERIOD OF RECORD.--July 1980, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 38.54 ft below land-surface datum, Feb. 21, 1985; lowest measured, 44.62 ft below land-surface datum, Aug. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 38.54          | MAY 23 | 44.10          | AUG 21 | 44.62          |

344207088122001. Local number G103. (USCE SE2-1)

LOCATION.--Lat 34°42'07", long 88°12'20", Hydrologic Unit 06030005, NW¼SW¼ sec.25, T.4 S., R.10 E., 4.8 mi north of Tishomingo.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Rocks of Paleozoic age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 341 ft.

DATUM.--Land-surface datum is about 580 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 104.95 ft below land-surface datum, May 23, 1985; lowest measured, 105.27 ft below land-surface datum, Aug. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 105.27         | MAY 23 | 104.95         | AUG 21 | 105.17         |

344207088122002. Local number G104. (USCE SE2-2)

LOCATION.--Lat 34°42'07", long 88°12'20", Hydrologic Unit 06030006, NW¼SW¼ sec.25, T.4 S., R.10 E., 4.7 mi northeast of Tishomingo.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 183 ft.

DATUM.--Land-surface datum is about 580 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.70 ft above land-surface datum.

PERIOD OF RECORD.--July 1980, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 61.93 ft below land-surface datum, Aug. 21, 1985; lowest measured, 69.0 ft below land-surface datum, July 16, 1980.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 62.48          | MAY 23 | 62.09          | AUG 21 | 61.93          |

## TISHOMINGO COUNTY--Continued

344207088122003. Local number G105. (USCE SE2-3)

LOCATION.--Lat 34°42'07", long 88°12'20", Hydrologic Unit 06030006, NW¼SW¼ sec.25, T.4 S., R.10 E., 4.8 mi north of Tishomingo.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--MsShan Sand Member of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 137 ft.

DATUM.--Land-surface datum is about 580 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.80 ft above land-surface datum.

PERIOD OF RECORD.--July 1980, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 66.49 ft below land-surface datum, May 23, 1985; lowest measured, 69.0 ft below land-surface datum, July 16, 1980.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 66.82          | MAY 23 | 66.49          | AUG 21 | 66.71          |

344207088122004. Local number G106. (USCE SE2-4)

LOCATION.--Lat 34°42'07", long 88°12'20", Hydrologic Unit 06030006, NW¼SW¼ sec.25, T.4 S., R.10 E., 4.8 mi north of Tishomingo.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 103 ft.

DATUM.--Land-surface datum is about 580 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--July 1980, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 45.27 ft below land-surface datum, Aug. 21, 1985; lowest measured, 47.66 ft below land-surface datum, Feb. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 21 | 47.66          | MAY 23 | 46.68          | AUG 21 | 45.27          |

344436088190301. Local number G110. (USCE 2DP143)

LOCATION.--Lat 34°44'36", long 88°19'03", Hydrologic Unit 06030005, SE¼SW¼ sec.11, T.4 S., R.9 E., 2.5 mi north of Paden.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Rocks of Paleozoic age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 3.2 in, depth 647 ft.

DATUM.--Land-surface datum is about 500 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 3.2 in pipe, 3.15 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 102.27 ft below land-surface datum, Aug. 24, 1985; lowest measured, 103.94 ft below land-surface datum, Mar. 8, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 8 | 103.94         | MAY 29 | 103.32         | AUG 24 | 102.27         |

344436088190302. Local number G111. (USCE 2DP144A)

LOCATION.--Lat 34°44'36", long 88°19'03", Hydrologic Unit 06030005, SE¼SW¼ sec.11, T.4 S., R.9 E., 1.9 mi northeast of Cairo.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 3.2 in, depth 270 ft.

DATUM.--Land-surface datum is about 500 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 3.2 in pipe, 3.85 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 86.83 ft below land-surface datum, May 29, 1985; lowest measured, 91.42 ft below land-surface datum, Mar. 8, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 8 | 91.42          | MAY 29 | 86.83          | AUG 24 | 88.50          |

## GROUND-WATER LEVELS IN THE TENNESSEE-TOMBIGBEE STUDY AREA

## TISHOMINGO COUNTY--Continued

344436088190303. Local number G112. (USCE 2DP147)

LOCATION.--Lat 34°44'36", long 88°19'03", Hydrologic Unit 03060005, SE¼SW¼ sec.11, T.4 S., R.9 E., 0.5 mi south of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 3.0 in, depth 165 ft.

DATUM.--Land-surface datum is about 500 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 3.0 in pipe, 2.70 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES OF PERIOD OF RECORD.--Highest water level measured, 88.39 ft below land-surface datum, May 29, 1985; lowest measured, 92.89 ft below land-surface datum, Mar. 8, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 8 | 92.89          | MAY 29 | 88.39          | AUG 24 | 89.49          |

344436088190304. Local number G113. (USCE 2DP148)

LOCATION.--Lat 34°44'36", long 88°19'03", Hydrologic Unit 06030005, SE¼SW¼ sec.11, T.4 S., R.9 E., 0.5 mi south of Burnsville.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 3.0 in, depth 130 ft.

DATUM.--Land-surface datum is about 500 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 3.0 in pipe, 2.80 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 89.26 ft below land-surface datum, May 29, 1985; lowest measured, 93.76 ft below land-surface datum, Mar. 8, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 8 | 93.76          | MAY 29 | 89.26          | AUG 24 | 90.69          |

344436088190305. Local number G114. (USCE 2DP149A)

LOCATION.--Lat 34°44'36", long 88°19'03", Hydrologic Unit 06030005, SE¼SW¼ sec.11, T.R S., R.9 E., 1.9 mi northeast of Cairo.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 3.2 in, depth 100 ft.

DATUM.--Land-surface datum is about 506 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 3.2 in pipe, 3.60 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 78.07 ft below land-surface datum, May 29, 1985; lowest measured, 79.59 ft below land-surface datum.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 8 | 79.77          | MAY 29 | 78.07          | AUG 24 | 79.59          |

344104088171601. Local number G115. (USCE 4DP155)

LOCATION.--Lat 34°41'04", long 88°17'16", Hydrologic Unit 06030005, SE¼SW¼ sec.31, T.4 S., R.10 E., 2.5 mi north of Paden.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 3.2 in, depth 231 ft.

DATUM.--Land-surface datum is about 500 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 3.2 in pipe, 3.40 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 51.49 ft below land-surface datum, May 28, 1985; lowest measured, 52.62 ft below land-surface datum, Mar. 8, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 8 | 52.62          | MAY 28 | 51.49          | AUG 23 | 51.70          |



## TISHOMINGO COUNTY--Continued

344104088171602. Local number G116. (USCE 4DP156)

LOCATION.--Lat 34°41'04", long 88°17'16", Hydrologic Unit 06030006, SE¼SW¼ sec.31, T.4 S., R.10 E., 4.2 mi north-west of Paden.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 3.5 in, depth 153 ft.

DATUM.--Land-surface datum is about 500 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 3.5 in pipe, 2.40 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 51.26 ft below land-surface datum, May 28, 1985; lowest measured, 52.89 ft below land-surface datum, Mar. 8, 1986.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 8 | 52.89          | MAY 28 | 51.26          | AUG 23 | 51.49          |

344104088171603. Local number G117. (USCE 4DP157)

LOCATION.--Lat 34°41'04", long 88°17'16", Hydrologic Unit 06030006, SE¼SW¼ sec.31, T.4 S., R.10 E., 4.2 mi north-west of Paden.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4.0 in, depth 94 ft.

DATUM.--Land-surface datum is about 500 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 4.0 in pipe, 2.95 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 60.02 ft below land-surface datum, May 28, 1985; lowest measured, 61.81 ft below land-surface datum, Mar. 8, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 8 | 61.81          | MAY 28 | 60.02          | AUG 23 | 60.62          |

344104088171604. Local number G118. (USCE 4DP158)

LOCATION.--Lat 34°41'04", long 88°17'16", Hydrologic Unit 06030006, SE¼SW¼ sec.31, T.4 S., R.10 E., 4.2 mi north-west of Paden.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4.0 in, depth 56 ft.

DATUM.--Land-surface datum is about 500 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 4.0 in pipe, 2.95 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 44.77 ft below land-surface datum, May 28, 1985; lowest measured, 45.01 ft below land-surface datum, Mar. 8, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 8 | 45.01          | MAY 28 | 44.77          | AUG 23 | 44.99          |

344356088185702. Local number G120. (USCE 9DP172)

LOCATION.--Lat 34°43'56", long 88°18'57", Hydrologic Unit 06030005, NE¼SE¼ sec.14, T.4 S., R.9 E., 1.9 mi east of Cairo.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4.0 in, depth 255 ft.

DATUM.--Land-surface datum is about 560 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 4.0 in pipe, 1.15 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 123.41 ft below land-surface datum, Mar. 8, 1985; lowest measured, 125.18 ft below land-surface datum, Aug. 24, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 8 | 123.41         | MAY 29 | 124.15         | AUG 24 | 125.18         |



## GROUND-WATER LEVELS IN THE TENNESSEE-TOMBIGBEE STUDY AREA

## TISHOMINGO COUNTY--Continued

344356088185703. Local number G121. (USCE 9DP173)

LOCATION.--Lat 34°43'56", long 88°18'57", Hydrologic Unit 06030005, NE¼SE¼ sec.14, T.4 S., R.9 E., 1 mi northeast of New Lebanon Church.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4.0 in, depth 220 ft.

DATUM.--Land-surface datum is about 560 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 4.0 in pipe, 1.30 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 120.17 ft below land-surface datum, May 29, 1985; lowest measured, 126.67 ft below land-surface datum, Mar. 8, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 8 | 126.67         | MAY 29 | 120.17         | AUG 24 | 120.19         |

344356088185704. Local number G122. (USCE 9DP174)

LOCATION.--Lat 34°43'56", long 88°18'57", Hydrologic Unit 06030005, NE¼SE¼ sec.14, T.4 S., R.9 E., 1 mi northeast of New Lebanon Church.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4.0 in, depth 163 ft.

DATUM.--Land-surface datum is about 560 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 4.0 in pipe, 1.35 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 90.09 ft below land-surface datum, Mar. 8, 1985; lowest measured, 92.54 ft below land-surface datum, Aug. 24, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 8 | 90.09          | MAY 29 | 92.45          | AUG 24 | 92.54          |

344041088164401. Local number J008. (USCE 33A)

LOCATION.--Lat 34°40'41", long 88°16'44", Hydrologic Unit 03160101, SE¼NE¼ sec.6, T.5 S., R.9 E., 1.3 mi southwest of Paden.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 172 ft, cased to 162 ft.

DATUM.--Land-surface datum is about 515 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.5 ft above land-surface datum.

PERIOD OF RECORD.--August 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 46.54 ft below land-surface datum, May 23, 1974; lowest measured, 74.63 ft below land-surface datum, Aug. 3, 1977.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 8 | 62.40          | MAY 22 | 58.16          | AUG 22 | 61.95          |

343936088161901. Local number J010.

LOCATION.--Lat 34°39'36", long 88°16'19", Hydrologic Unit 03160101, NW¼SE¼ sec.8, T.5 S., R.10 E., in Paden.

Owner: Irwin Schwabe Co.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in, depth 181 ft, cased to 165 ft.

DATUM.--Land-surface datum is about 420 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.69 ft above land-surface datum.

PERIOD OF RECORD.--July 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.2 ft above land-surface datum, Mar. 13, 1974; lowest measured, 3.37 ft below land-surface datum, Nov. 18, 1981.

## WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 29 | 4.25           | JAN 30 | 4.21           | MAY 22 | 5.39           | AUG 21 | 5.26           |

## TISHOMINGO COUNTY--Continued

344053088161202. Local number J013. (USCE 34A)

LOCATION.--Lat 34°40'53", long 88°16'12", Hydrologic Unit 03160101, NE¼NW¼ sec.5, T.5 S., R.10 E., 1.8 mi north of Paden.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 266 ft, cased to 256 ft.

DATUM.--Land-surface datum is about 560 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 1.0 ft above land-surface datum.

PERIOD OF RECORD.--September 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 82.17 ft below land-surface datum, Mar. 13, 1974; lowest recorded, 117.63 ft below land-surface datum, Aug. 5, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|
| 5   | 101.50 | 101.39 | 101.74 | 101.79 | 101.69 | 101.72 | 101.31 | 100.80 | 100.64 | 100.50 | 100.71 |     |
| 10  | 101.46 | 101.46 | 101.72 | 101.79 | 101.71 | 101.69 | 101.46 | 100.69 | 100.64 | 100.55 | 100.70 |     |
| 15  | 101.40 | 101.50 | 101.75 | 101.81 | 101.60 | 101.66 | 101.16 | 100.66 | 100.59 | 100.64 | ---    |     |
| 20  | 101.40 | 101.51 | 101.75 | 101.85 | 101.64 | 101.65 | 101.18 | 100.63 | 100.58 | 100.65 | ---    |     |
| 25  | 101.39 | 101.53 | 101.87 | 101.79 | 101.56 | 101.60 | 100.95 | 100.60 | 100.59 | 100.65 | ---    |     |
| EOM | 101.39 | 101.65 | 101.86 | 101.79 | 101.65 | 101.45 | 100.93 | 100.57 | 100.59 | 100.67 | ---    |     |

WTR YR 1985 MEAN 101.26 HIGH 100.50 JUL 5 LOW 101.88 JAN 12

344053088161203. Local number J014. (USCE 34B)

LOCATION.--Lat 34°40'53", long 88°16'12", Hydrologic Unit 03160101, NE¼NW¼ sec.5, T.5 S., R.10 E., 1.8 mi north of Paden.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 134 ft, cased to 129 ft.

DATUM.--Land-surface datum is about 560 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.65 ft above land-surface datum.

PERIOD OF RECORD.--September 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 69.67 ft below land-surface datum, May 23, 1974; lowest recorded, 77.81 ft below land-surface datum, Nov. 26, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5   | 74.41 | 74.58 | 74.11 | 74.03 | 73.10 | 73.21 | 72.79 | 72.84 | 73.71 | 73.88 | 74.19 | 74.43 |
| 10  | 74.46 | 74.47 | 73.97 | 74.02 | 73.13 | 73.02 | 72.97 | 72.78 | 73.76 | 73.89 | 74.23 | 74.44 |
| 15  | 74.41 | 74.57 | 74.17 | 73.98 | 73.16 | 73.13 | 72.67 | 72.80 | 73.73 | 74.08 | 74.25 | 74.56 |
| 20  | 74.48 | 74.80 | 74.05 | 74.28 | 73.11 | 72.95 | 72.91 | 72.78 | 73.86 | 74.13 | 74.27 | 74.52 |
| 25  | 74.54 | 74.45 | 74.31 | 74.19 | 73.11 | 73.16 | 72.82 | 73.78 | 73.82 | 74.15 | 74.38 | 74.60 |
| EOM | 74.56 | 74.06 | 74.07 | 73.90 | 73.16 | 72.96 | 72.83 | 73.75 | 73.92 | 74.16 | 74.33 | 74.59 |

WTR YR 1985 MEAN 73.84 HIGH 72.66 MAY 17 LOW 74.80 NOV 20

344041088164402. Local number J016. (USCE 33B)

LOCATION.--Lat 34°40'41", long 88°16'44", Hydrologic Unit 03160101, SE¼NE¼ sec.6, T.5 S., R.9 E., 1.3 mi northwest of Paden.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 90 ft, cased to 85 ft.

DATUM.--Land-surface datum is about 515 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.3 ft above land-surface datum.

PERIOD OF RECORD.--August 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 49.93 ft below land-surface datum, May 23, 1974; lowest measured, 61.43 ft below land-surface datum, Aug. 22, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DATE  | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|-------|-------------|--------|-------------|--------|-------------|
| MAR 8 | 58.34       | MAY 22 | 61.50       | AUG 22 | 58.53       |

## GROUND-WATER LEVELS IN THE TENNESSEE-TOMBIGBEE STUDY AREA

## TISHOMINGO COUNTY--Continued

344041088164403. Local number J017. (USCE 33C)

LOCATION.--Lat 34°40'41", long 88°16'44", Hydrologic Unit 03160101, SE¼NE¼ sec.6, T.5 S., R.9 E., 1.3 mi northwest of Paden.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 2 in, depth 212 ft, cased to 192 ft.

DATUM.--Land-surface datum is about 515 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.5 ft above land-surface datum.

PERIOD OF RECORD.--September 1971 to current year.

EXTREMES FOR THE PERIOD OF RECORD.--Highest water level measured, 42.20 ft below land-surface datum, Apr. 9, 1974; lowest measured, 91.80 ft below land-surface datum, Nov. 6, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DATE  | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|-------|-------------|--------|-------------|--------|-------------|
| MAR 8 | 65.17       | MAY 22 | 64.02       | AUG 22 | 64.08       |

344017088180402. Local number J018. (USCE 31A)

LOCATION.--Lat 34°40'17", long 88°18'04", Hydrologic Unit 03160101, SW¼SE¼ sec.10, T.5 S., R.9 E., 2.0 mi northwest of Paden.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 178 ft, cased to 158 ft.

DATUM.--Land-surface datum is about 473 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.2 ft above land-surface datum.

PERIOD OF RECORD.--March 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.85 ft below land-surface datum, May 23, 1974; lowest measured, 44.18 ft below land-surface datum, Jan. 25, 1979.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| NOV 30 | 35.27       | JAN 31 | 35.30       | MAY 28 | 34.73       | AUG 23 | 34.99       |

344017088180403. Local number J019. (USCE 31B)

LOCATION.--Lat 34°40'17", long 88°18'04", Hydrologic Unit 03160101, SW¼SE¼ sec.10, T.5 S., R.9 E., 2.0 mi northwest of Paden.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 74 ft, cased to 64 ft.

DATUM.--Land-surface datum is about 473 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 1.6 ft above land-surface datum.

PERIOD OF RECORD.--March 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.80 ft below land-surface datum, May 20, 1975; lowest recorded, 13.33 ft below land-surface datum, Nov. 25, 1982.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5   | 12.29 | 12.19 | 11.82 | 11.72 | 11.54 | 11.35 | 11.02 | 10.94 | 11.26 | 11.52 | 11.92 | 11.93 |
| 10  | 12.29 | 12.16 | 11.68 | 11.69 | 11.44 | 11.28 | 11.23 | 10.87 | 11.36 | 11.60 | 11.94 | 11.98 |
| 15  | 12.23 | 12.18 | 11.84 | 11.72 | 11.23 | 11.34 | 11.00 | 10.98 | 11.39 | 11.73 | 12.00 | 12.15 |
| 20  | 12.33 | 12.06 | 11.74 | 11.82 | 11.24 | 11.32 | 11.15 | 11.04 | 11.47 | 11.82 | 11.91 | 12.13 |
| 25  | 12.20 | 11.91 | 11.88 | 11.72 | 11.16 | 11.25 | 10.99 | 11.09 | 11.51 | 11.83 | 11.77 | 12.17 |
| EOM | 12.22 | 11.68 | 11.74 | 11.51 | 11.25 | 11.10 | 11.03 | 11.13 | 11.57 | 11.85 | 11.83 | 12.21 |

WTR YR 1985 MEAN 11.64 HIGH 10.79 MAY 2 LOW 12.35 OCT 17

344041088172602. Local number J020. (USCE 32A)

LOCATION.--Lat 34°40'41", long 88°17'26", Hydrologic Unit 03160101, NW¼NW¼ sec.6, T.5 S., R.10 E., 1.9 mi northwest of Paden.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 240 ft, cased to 230 ft.

DATUM.--Land-surface datum is about 530 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.3 ft above land-surface datum.

PERIOD OF RECORD.--March 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 62.90 ft below land-surface datum, June 9, 1976; lowest measured, 106.69 ft below land-surface datum, Oct. 25, 1978.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| NOV 30 | 84.98       | JAN 31 | 85.93       | MAY 28 | 84.89       | AUG 22 | 85.05       |

## TISHOMINGO COUNTY--Continued

344041088172603. Local number J021. (USCE 328)

LOCATION.--Lat 34°40'41", long 88°17'26", Hydrologic Unit 03160101, NW¼NW¼ sec.6, T.5 S., R.10 E., 1.9 mi northwest of Paden.

Owner: U. S. Army, Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 112 ft, cased to 102 ft.

DATUM.--Land-surface datum is about 530 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.6 ft above land-surface datum.

PERIOD OF RECORD.--March 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 61.33 ft below land-surface datum, Apr. 26, 1973; lowest measured, 76.29 ft below land-surface datum, Nov. 17, 1982.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|--------|----------------|
| NOV 30 | 74.66          | JAN 31 | 74.79          | MAY 28 | 74.38          | AUG 23 | 74.51          |

343950088184302. Local number J066. (USCE SW1-2)

LOCATION.--Lat 34°39'50", long 88°18'43", Hydrologic Unit 03160101, NW¼NW¼ sec.12, T.5 S., R.9 E., 2.75 mi west of Paden.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 150 ft.

DATUM.--Land-surface datum is about 550 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.15 ft above land-surface datum.

PERIOD OF RECORD.--October 1977, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 86.15 ft below land-surface datum, May 23, 1985; lowest measured, 90.0 ft below land-surface datum, Oct. 5, 1977.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 88.45          | MAY 23 | 86.15          | AUG 23 | 88.55          |

343950088184303. Local number J067. (USCE SW1-3)

LOCATION.--Lat 34°39'50", long 88°18'43", Hydrologic Unit 03160101, NW¼NW¼ sec.12, T.5 S., R.9 E., 2.75 mi west of Paden.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 75 ft.

DATUM.--Land-surface datum is about 550 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.30 ft above land-surface datum.

PERIOD OF RECORD.--October 1977, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 67.87 ft below land-surface datum, Nov. 30, 1982; lowest measured, 70.0 ft below land-surface datum, Oct. 10, 1977.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 68.84          | MAY 28 | 68.55          | AUG 23 | 68.71          |

343949088184201. Local number J075. (USCE SW1-1)

LOCATION.--Lat 34°39'49", long 88°18'42", Hydrologic Unit 03160101, SW¼NW¼ sec.12, T.5 S., R.9 E., 2.75 mi west of Paden.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 264 ft.

DATUM.--Land-surface datum is about 550 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.20 ft above land-surface datum.

PERIOD OF RECORD.--July 1980, February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 102.80 ft below land-surface datum, May 28, 1985; lowest measured, 103.13 ft below land-surface datum, Feb. 22, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 103.13         | MAY 28 | 102.80         | AUG 23 | 103.9          |



## GROUND-WATER LEVELS IN THE TENNESSEE-TOMBIGBEE STUDY AREA

## TISHOMINGO COUNTY--Continued

343923088162001. Local number J076. (USCE 5DP159)

LOCATION.--Lat 34°39'23", long 88°16'20", Hydrologic Unit 03160101, NE¼SW¼ sec.8, T.5 S., R.10 E., 0.4 mi north of Paden.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4.0 in, depth 148 ft.

DATUM.--Land-surface datum is about 440 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 4.0 in pipe, 0.87 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.07 ft above land-surface datum, May 28, 1985; lowest measured, 2.30 ft above land-surface datum, Mar. 8, 1985.

## WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 8 | 2.30           | MAY 28 | 8.07           | AUG 23 | 7.87           |

343923088162002. Local number J077. (USCE 5DP160)

LOCATION.--Lat 34°39'23", long 88°16'20", Hydrologic Unit 03160101, NE¼SW¼ sec.8, T.5 S., R.10 E., 0.4 mi north of Paden.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 3.0 in, depth 60 ft.

DATUM.--Land-surface datum is about 440 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 3.0 in pipe, 1.25 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.74 ft below land-surface datum, May 28, 1985; lowest measured, 16.39 ft below land-surface datum, Mar. 8, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 8 | 16.39          | MAY 28 | 13.74          | AUG 23 | 14.55          |

343923088162003. Local number J078. (USCE 5DP161)

LOCATION.--Lat 34°39'23", long 88°16'20", Hydrologic Unit 03160101, NE¼SW¼ sec.8, T.5 S., R.10 E., 0.4 mi north of Paden.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 3.0 in, depth 34 ft.

DATUM.--Land-surface datum is about 440 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 3.0 in pipe, 1.30 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.60 ft below land-surface datum, May 28, 1985; lowest measured, 16.29 ft below land-surface datum, Mar. 8, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 8 | 16.29          | MAY 28 | 13.60          | AUG 23 | 14.46          |

343918088150501. Local number J079. (USCE E1-1)

LOCATION.--Lat 34°39'18", long 88°15'05", Hydrologic Unit 03160101, SW¼SE¼ sec.9, T.5 S., R.10 E., 0.75 mi east of Paden.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Rocks of Paleozoic age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 348 ft.

DATUM.--Land-surface datum is about 520 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 42.50 ft below land-surface datum, May 22, 1985; lowest measured, 46.61 ft below land-surface datum, Aug. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 43.04          | MAY 22 | 42.50          | AUG 21 | 46.61          |



## TISHOMINGO COUNTY--Continued

343918088150502. Local number J080. (USCE E1-2)

LOCATION.--Lat 34°39'18", long 88°15'05", Hydrologic Unit 03160101, SW¼SE¼ sec.9, T.5 S., R.10 E., 0.75 mi east of Paden.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 131 ft.

DATUM.--Land-surface datum is about 520 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.35 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 57.63 ft below land-surface datum, May 22, 1985; lowest measured, 58.06 ft below land-surface datum, Feb. 22, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 58.06          | MAY 22 | 57.63          | AUG 21 | 57.86          |

343918088150503. Local number J081. (USCE E1-3)

LOCATION.--Lat 34°39'18", long 88°15'05", Hydrologic Unit 03160101, SW¼SE¼ sec.9, T.5 S., R.10 E., 0.75 mi east of Paden.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Sand of Eutaw Formation of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 1.5 in, depth 102 ft.

DATUM.--Land-surface datum is about 520 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1.5 in pipe, 2.90 ft above land-surface datum.

PERIOD OF RECORD.--February 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 62.59 ft below land-surface datum, May 22, 1985; lowest measured, 62.98 ft below land-surface datum, Aug. 21, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|--------|----------------|--------|----------------|--------|----------------|
| FEB 22 | 62.77          | MAY 22 | 62.59          | AUG 21 | 62.98          |

342854088194101. Local number L029. (USCE 54A)

LOCATION.--Lat 34°28'54", long 88°19'41", Hydrologic Unit 03160101, SW¼SW¼ sec.11, T.7 S., R.9 E., 15.8 mi south-east of Baldwin.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 27 ft, cased to 22 ft.

DATUM.--Land-surface datum is about 332 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 1.9 ft above land-surface datum.

PERIOD OF RECORD.--May 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.87 ft above land-surface datum, May 20, 1983; lowest recorded, 9.91 ft below land-surface datum, Nov. 20, 1981.

WATER LEVEL, IN FEET ABOVE AND BELOW (-) LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY              | OCT   | NOV   | DEC   | JAN   | FEB    | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|------------------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 5                | -8.87 | ---   | .00   | -0.23 | -0.19  | -0.29 | -0.37 | -0.10 | -1.81 | -1.63 | -1.51 | -1.07 |
| 10               | ---   | ---   | -0.32 | -0.42 | .10    | -0.49 | -0.63 | .01   | -1.77 | -1.67 | -1.71 | -1.55 |
| 15               | ---   | ---   | -0.52 | -0.58 | .36    | -0.74 | -0.31 | -0.78 | -1.75 | -2.05 | -1.91 | -1.80 |
| 20               | ---   | ---   | -0.07 | -0.28 | .11    | -0.84 | -0.83 | -1.19 | -1.05 | -1.63 | -0.70 | -1.93 |
| 25               | ---   | ---   | -0.45 | -0.53 | .19    | -0.18 | .57   | -1.29 | -1.53 | -1.85 | -0.69 | -1.79 |
| EOM              | ---   | .35   | -0.46 | -0.23 | -0.07  | -0.30 | -0.15 | -1.45 | -1.59 | -1.08 | -1.11 | -1.95 |
| WTR YR 1985 MEAN |       | -0.95 | HIGH  | .81   | FEB 12 | LOW   | -8.89 | OCT 6 |       |       |       |       |

## TISHOMINGO COUNTY--Continued

342844088184701. Local number L030. (USCE 55A)

LOCATION.--Lat 34°28'44", long 88°18'47", Hydrologic Unit 03160101, SE¼SE¼ sec.11, T.7 S., R.9 E., 7 mi west of Golden.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Sand and gravel of Gordo Formation of Tuscaloosa Group of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 50 ft, cased to 45 ft.

DATUM.--Land-surface datum is about 380 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder house floor, 1.3 ft above land-surface datum.

PERIOD OF RECORD.--May 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest year level measured, 20.08 ft below land-surface datum, Jan. 8-13, 1976; lowest recorded, 22.97 ft below land-surface datum, Sept. 26, 1984.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985  
LOWEST LEVELS

| DAY | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5   | 23.00 | 21.82 | 21.25 | 21.16 | 21.02 | 21.08 | 20.90 | 20.99 | 21.91 | 21.94 | 22.13 | 21.87 |
| 10  | 22.60 | 21.81 | 21.21 | 21.17 | 20.88 | 21.07 | 21.12 | 21.00 | 21.97 | 22.03 | 22.17 | 21.91 |
| 15  | 22.44 | 21.74 | 21.38 | 21.24 | 20.81 | 21.16 | 20.99 | 21.23 | 21.91 | 22.19 | 22.31 | 22.11 |
| 20  | 22.38 | 21.43 | 21.18 | 21.26 | 20.86 | 21.17 | 21.14 | 21.42 | 21.49 | 22.20 | 21.93 | 22.19 |
| 25  | 21.91 | 21.40 | 21.38 | 21.24 | 20.78 | 21.07 | 20.91 | 21.51 | 21.77 | 22.25 | 21.84 | 22.19 |
| EOM | 21.95 | 21.14 | 21.26 | 21.03 | 20.90 | 20.90 | 21.06 | 21.70 | 21.89 | 22.01 | 21.86 | 22.25 |

WTR YR 1985 MEAN 21.56 HIGH 20.66 FEB 11 LOW 23.00 OCT 5

343150088183703. Local number L032. (USCE 45B)

LOCATION.--Lat 34°31'50", long 88°18'37", Hydrologic Unit 03160101, SW¼NW¼ sec.25, T.6 S., R.9 E., 8.5 mi southwest of Tishomingo.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--McShan Sand member of Eutaw Formation of Late Cretaceous age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 76 ft, cased to 66 ft.

DATUM.--Land-surface datum is about 485 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.4 ft above land-surface datum.

PERIOD OF RECORD.--May 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 52.40 ft below land-surface datum, Jan. 25, 1979; lowest measured, 57.46 ft below land-surface datum, Nov. 17, 1982.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| NOV 29 | 54.56       | JAN 30 | 54.93       | MAY 22 | 54.50       | AUG 20 | 55.00       |

342854088194102. Local number L033. (USCE 54B)

LOCATION.--Lat 34°28'54", long 88°19'47", Hydrologic Unit 03160101, SW¼SE¼ sec.11, T.7 S., R.9 E., 15.8 mi southeast of Baldwyn.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in, depth 12 ft.

DATUM.--Land-surface datum is about 332 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.3 ft above land-surface datum.

PERIOD OF RECORD.--May 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.21 ft above land-surface datum, Mar. 9, 1983; lowest measured, 10.24 ft below land-surface datum, Nov. 19, 1981.

## WATER LEVEL, IN FEET ABOVE AND (-) BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| NOV 28 | 0.17        | JAN 30 | -0.38       | MAY 22 | -1.43       | AUG 20 | -0.72       |

342854088194103. Local number L034. (USCE 54C)

LOCATION.--Lat 34°28'40", long 88°19'41", Hydrologic Unit 03160101, SW¼SW¼ sec.11, T.7 S., R.9 E., 8.1 mi west of Golden.

Owner: U.S. Army, Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 2 in, depth 13 ft, cased to 8 ft.

DATUM.--Land-surface datum is about 333 ft National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 1.4 ft above land-surface datum.

PERIOD OF RECORD.--June 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.75 ft above land-surface datum, Aug. 29, 1985; lowest measured, 10.75 ft below land-surface datum, Nov. 19, 1981.

## WATER LEVEL, IN FEET ABOVE AND (-) BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL | DATE   | WATER LEVEL |
|--------|-------------|--------|-------------|--------|-------------|--------|-------------|
| NOV 28 | 0.18        | JAN 30 | -0.39       | MAY 22 | 0.75        | AUG 20 | 0.80        |

## TISHOMINGO COUNTY--Continued

343009088191201. Local number L051. (USCE GW125)

LOCATION.--Lat 34°30'09", long 88°19'12", Hydrologic Unit 03160101, SE¼NE¼ sec.2, T.7 S., R.9 E., 2 mi south of Bay Springs Lock and Dam.

Owner: U. S. Army Corps of Engineers.

AQUIFER.--Alluvium, undifferentiated of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 2.0 in, depth 17 ft.

DATUM.--Land-surface datum is 367.1 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 2.0 in pipe, 2.50 ft above land-surface datum.

PERIOD OF RECORD.--March 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.15 ft below land-surface datum, Mar. 6, 1985; lowest measured, 10.63 ft below land-surface datum, Aug. 20, 1985.

## WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | WATER<br>LEVEL | DATE   | WATER<br>LEVEL | DATE   | WATER<br>LEVEL |
|-------|----------------|--------|----------------|--------|----------------|
| MAR 6 | 3.15           | MAY 22 | 6.37           | AUG 20 | 10.63          |



Analyses of samples collected statewide are given in the following tables. The analyses are grouped by counties in a project area, therefore, the analyses of samples from wells within a given county may be presented in separate tables.

AQUIFER NAMES CORRESPONDING TO GEOLOGIC UNITS LISTED IN THE QUALITY OF GROUND-WATER TABLES ARE GIVEN BELOW.

| GEOLOGIC<br>UNIT | AQUIFER<br>NAME                                 |
|------------------|-------------------------------------------------|
| 110 ALVM         | QUATERNARY ALLUVIUM, QUATERNARY                 |
| 110 TRCS         | UNDIFFERENTIATED TERRACE DEPOSITS, QUATERNARY   |
| 111 ALVM         | HOLOCENE ALLUVIUM, HOLOCENE                     |
| 111 TRCS         | UNDIFFERENTIATED TERRACE DEPOSITS, HOLOCENE     |
| 112 MRVA         | MISSISSIPPI RIVER ALLUVIAL AQUIFER, PLEISTOCENE |
| 112 TRCS         | UNDIFFERENTIATED TERRACE DEPOSITS, PLEISTOCENE  |
| 121 CRNL         | CITRONELLE FORMATION, PLIOCENE                  |
| 121 GRMF         | GRAHAM FERRY FORMATION, PLIOCENE                |
| 122 PCGL         | PASCAGOULA FORMATION, MIOCENE                   |
| 122 HBRG         | HATTIESBURG FORMATION, MIOCENE                  |
| 122 MOCN         | MIOCENE SERIES, MIOCENE                         |
| 122 CTHL         | LOWER CATAHOULA FORMATION, MIOCENE              |
| 123 WSBK         | WAYNESBORO SAND, OLIGOCENE                      |
| 123 CCKS         | CHICKASAWHAY Limestone, OLIGOCENE               |
| 123 VKBG         | VICKSBURG GROUP, OLIGOCENE                      |
| 123 MSPG         | MINT SPRING MARL, OLIGOCENE                     |
| 123 FRHL         | FOREST HILL SAND, OLIGOCENE                     |
| 124 MDBC         | MOODYS BRANCH FORMATION, EOCENE                 |
| 124 CCKF         | COCKFIELD FORMATION, EOCENE                     |
| 124 SPRT         | SPARTA SAND, EOCENE                             |
| 124 MUWX         | MERIDIAN-UPPER WILCOX AQUIFER, EOCENE           |
| 124 WLCXM        | MIDDLE WILCOX AQUIFER, EOCENE                   |
| 124 WLCXL        | LOWER WILCOX AQUIFER, EOCENE                    |
| 211 RPLY         | RIPLEY FORMATION, UPPER CRETACEOUS              |
| 211 COFF         | COFFEE SAND, UPPER CRETACEOUS                   |
| 211 EUTW         | EUTAW FORMATION, UPPER CRETACEOUS               |
| 211 EUTWR        | EUTAW FORMATION (RESTRICTED), UPPER CRETACEOUS  |
| 211 EUTWL        | LOWER EUTAW FORMATION, UPPER CRETACEOUS         |
| 211 MCSN         | MCSHAN FORMATION, UPPER CRETACEOUS              |
| 211 GORD         | GORDO FORMATION, UPPER CRETACEOUS               |
| 211 COKR         | COKER FORMATION, UPPER CRETACEOUS               |
| 211 MSSV         | MASSIVE SAND, UPPER CRETACEOUS                  |
| 300 PLZC         | PALEOZOIC ERATHEN, PALEOZOIC                    |
| 331 TCMB         | TUSCUMBIA Limestone, UPPER MISSISSIPPIAN        |
| 337 FRPN         | FORT PAYNE Chert, LOWER MISSISSIPPIAN           |



QUALITY OF GROUND WATER  
BRINE CONTAMINATION PROJECT  
WATER QUALITY DATA, JANUARY TO AUGUST 1985

| LOCAL<br>IDENT-<br>I-<br>FIER | STATION NUMBER  | GEO-<br>LOGIC<br>UNIT | DATE<br>OF<br>SAMPLE | TIME | SAMPLE<br>SOURCE | SAM-<br>PLING<br>CONDI-<br>TION | DEPTH<br>BELOW<br>LAND<br>SURFACE<br>(WATER<br>LEVEL)<br>(FEET) | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET) | ELEV.<br>OF LAND<br>SURFACE<br>DATUM<br>(FT.<br>ABOVE<br>NGVD) |
|-------------------------------|-----------------|-----------------------|----------------------|------|------------------|---------------------------------|-----------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------|
| FORREST                       |                 |                       |                      |      |                  |                                 |                                                                 |                                         |                                                                |
| M061 CARL ARCHER              | 305942089171601 | 121CRNL               | 06-12-85             | 1007 | 30               | .10                             | --                                                              | 50.00                                   | 318.00                                                         |
| M064 ZELENA ENTREKIN          | 305900089180901 | 122MOCN               | 06-11-85             | 1130 | 30               | .10                             | --                                                              | 350                                     | 240.00                                                         |
| M065 OTTIS LEE                | 305900089175201 | 121CRNL               | 06-10-85             | 1815 | 30               | .10                             | --                                                              | 82.00                                   | 280.00                                                         |
| M066 P A MCCARDLE             | 305758089192901 | 121CRNL               | 06-12-85             | 1210 | 30               | .10                             | --                                                              | 68.00                                   | 273.00                                                         |
| M068 WESLEY RAWLS             | 305910089165601 | 121CRNL               | 06-11-85             | 1625 | 30               | .10                             | --                                                              | 41.00                                   | 295.00                                                         |
| M069 OPHELIA WALTERS          | 305856089201001 | 121CRNL               | 05-31-85             | 1247 | 30               | .10                             | --                                                              | 50.00                                   | 290.00                                                         |
| M072 GERALD CAIN              | 305844089200301 | 121CRNL               | 05-30-85             | 1630 | 30               | .10                             | --                                                              | 85.00                                   | 280.00                                                         |
| M074 KENNETH L SMITH JR       | 305903089184801 | 121CRNL               | 06-10-85             | 1715 | 30               | .10                             | --                                                              | 75.00                                   | 285.00                                                         |
| M075 DOYLE JOHNSON            | 305858089191301 | 121CRNL               | 06-11-85             | 1237 | 30               | .10                             | --                                                              | 50.00                                   | 287.00                                                         |
| M076 ERAY M HODELY            | 305859089183901 | 121CRNL               | 06-11-85             | 1340 | 30               | .10                             | --                                                              | 75.00                                   | 266.00                                                         |
| M078 CLARENCE BUSHA           | 305736089181701 | 122MOCN               | 06-12-85             | 1635 | 30               | .10                             | --                                                              | 120                                     | 233.00                                                         |
| M079 L D ARCHER               | 305734089193201 | 122MOCN               | 06-12-85             | 1525 | 30               | .10                             | --                                                              | 388                                     | 262.00                                                         |
| M080 PHILLIP WHITE            | 305910089182801 | 122MOCN               | 06-11-85             | 1737 | 30               | .10                             | --                                                              | 300                                     | 282.00                                                         |
| M081 ALBERT TIMS              | 305735089202201 | 121CRNL               | 06-18-85             | 1420 | 30               | .10                             | --                                                              | 35.00                                   | 241.00                                                         |
| M083 DARVID LEE               | 305812089182401 | 122MOCN               | 06-18-85             | 1215 | 30               | .10                             | --                                                              | 372                                     | 225.00                                                         |
| M085 CARL BROWN               | 305752089202101 | 122MOCN               | 06-19-85             | 1315 | 28               | .10                             | --                                                              | 347                                     | 229.00                                                         |
| LINCOLN                       |                 |                       |                      |      |                  |                                 |                                                                 |                                         |                                                                |
| G117 WILLIAM BUDDY CASE       | 313550090324901 | 121CRNL               | 07-25-85             | 1730 | 30               | .10                             | 60.20                                                           | 73.00                                   | 431.00                                                         |
| PEARL RIVER                   |                 |                       |                      |      |                  |                                 |                                                                 |                                         |                                                                |
| D029 J O OWENS                | 305922089220601 | 121CRNL               | 05-30-85             | 1410 | 30               | .10                             | --                                                              | 55.00                                   | 260.00                                                         |
| D032 R BOE                    | 305906089225801 | 122MOCN               | 05-30-85             | 1035 | 30               | .11                             | --                                                              | 50.00                                   | 250.00                                                         |
| D036 PETE LADNER              | 305940089215201 | 121CRNL               | 05-31-85             | 1420 | 27               | .10                             | --                                                              | 51.00                                   | 270.00                                                         |
| D037 ROCKY MCCADALA           | 305945089230901 | 121CRNL               | 06-10-85             | 1512 | 30               | .10                             | --                                                              | 73.00                                   | 280.00                                                         |
| D038 JAMES HOLSTON            | 305926089220901 | 121CRNL               | 05-15-85             | 1406 | 28               | .10                             | --                                                              | 42.00                                   | 260.00                                                         |
| D040 JULIUS E FERGUSON        | 305903089215901 | 121CRNL               | 05-30-85             | 1230 | 30               | .10                             | --                                                              | 38.00                                   | 252.00                                                         |
| D041 WILSON LAZENBY           | 305925089232801 | 121CRNL               | 05-31-85             | 0925 | 30               | .11                             | --                                                              | 80.00                                   | 272.00                                                         |
| D042 HAROLD SULLIVAN          | 305830089215601 | 122MOCN               | 05-30-85             | 1325 | 30               | .10                             | --                                                              | 57.00                                   | 215.00                                                         |
| D045 PAUL BOONE               | 305931089230701 | 121CRNL               | 06-10-85             | 1410 | 30               | .10                             | --                                                              | 89.00                                   | 274.00                                                         |
| D047 ELLA LADENER             | 305737089224601 | 121CRNL               | 08-08-85             | 1020 | 30               | .10                             | --                                                              | 65.00                                   | 273.00                                                         |

## BRINE CONTAMINATION PROJECT--Continued

| LOCAL<br>IDENT-<br>I-<br>FIER | PUMP<br>OR FLOW<br>PERIOD<br>PRIOR<br>TO SAM-<br>PLING<br>(MIN) | FLOW<br>RATE,<br>INSTAN-<br>TANEOUS<br>(GPM) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) |
|-------------------------------|-----------------------------------------------------------------|----------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|----------------------------------------------|-----------------------------------------------------|
| FORREST                       |                                                                 |                                              |                                                   |                                |                             |                                              |                                                     |
| M061 CARL ARCHER              | 17                                                              | 7.5                                          | 25                                                | 5.2                            | 20.0                        | 2.1                                          | 3.8                                                 |
| M064 ZELENA ENTREKIN          | 30                                                              | 3.2                                          | 125                                               | 6.8                            | 22.0                        | 16                                           | 3.5                                                 |
| M065 OTTIS LEE                | 20                                                              | 6.3                                          | 37                                                | 5.8                            | 19.5                        | 4.2                                          | 3.5                                                 |
| M066 P A MCCARDLE             | 23                                                              | 2.1                                          | 42                                                | 5.0                            | 20.0                        | 3.5                                          | 7.0                                                 |
| M068 WESLEY RAWLS             | 16                                                              | 8.5                                          | 22                                                | 5.1                            | 20.0                        | 1.8                                          | 3.7                                                 |
| M069 OPHELIA WALTERS          | 21                                                              | 5.1                                          | 25                                                | 5.0                            | 21.0                        | 2.2                                          | 4.4                                                 |
| M072 GERALD CAIN              | 22                                                              | 2.3                                          | 23                                                | 5.0                            | 23.0                        | 1.9                                          | 3.8                                                 |
| M074 KENNETH L SMITH JR       | 20                                                              | 8.5                                          | 30                                                | 5.4                            | 20.5                        | 2.4                                          | 2.7                                                 |
| M075 DOYLE JOHNSON            | 15                                                              | 4.9                                          | 19                                                | 5.6                            | 20.0                        | 1.5                                          | 2.9                                                 |
| M076 ERAY M HODELY            | 17                                                              | --                                           | 30                                                | 6.0                            | 20.5                        | 2.5                                          | 2.9                                                 |
| M078 CLARENCE BUSHA           | 20                                                              | 3.2                                          | 80                                                | 6.3                            | 20.0                        | 8.3                                          | 3.3                                                 |
| M079 L D ARCHER               | 43                                                              | 4.0                                          | 112                                               | 7.0                            | 22.5                        | 14                                           | 3.4                                                 |
| M080 PHILLIP WHITE            | 28                                                              | 4.5                                          | 31                                                | 5.6                            | 20.5                        | 2.8                                          | 3.2                                                 |
| M081 ALBERT TIMS              | 34                                                              | 4.1                                          | 38                                                | 4.9                            | 21.0                        | 2.8                                          | 6.2                                                 |
| M083 DARVID LEE               | 33                                                              | 8.5                                          | 110                                               | 6.5                            | 22.0                        | 14                                           | 3.2                                                 |
| M085 CARL BROWN               | 37                                                              | 2.9                                          | 120                                               | 6.6                            | 22.0                        | 15                                           | 3.1                                                 |
| LINCOLN                       |                                                                 |                                              |                                                   |                                |                             |                                              |                                                     |
| G117 WILLIAM BUDDY CASE       | 25                                                              | 1.0                                          | 125                                               | 5.0                            | 19.0                        | 14                                           | 31                                                  |
| PEARL RIVER                   |                                                                 |                                              |                                                   |                                |                             |                                              |                                                     |
| D029 J O OWENS                | 17                                                              | 5.1                                          | 23                                                | 5.1                            | 21.0                        | 1.8                                          | 3.4                                                 |
| D032 R BOE                    | --                                                              | --                                           | 98                                                | 4.9                            | 23.0                        | 9.1                                          | 25                                                  |
| D036 PETE LADNER              | 20                                                              | 4.5                                          | 32                                                | 5.0                            | 20.0                        | 2.9                                          | 4.4                                                 |
| D037 ROCKY MCCADALA           | 18                                                              | 2.1                                          | 45                                                | 5.0                            | 21.5                        | 3.5                                          | 4.7                                                 |
| D038 JAMES HOLSTON            | 21                                                              | 4.5                                          | 172                                               | 4.6                            | 22.5                        | 20                                           | 48                                                  |
| D040 JULIUS E FERGUSON        | 16                                                              | 3.3                                          | 185                                               | 4.8                            | 22.0                        | 16                                           | 34                                                  |
| D041 WILSON LAZENBY           | 20                                                              | 2.3                                          | 28                                                | 5.2                            | 20.0                        | 1.7                                          | 2.4                                                 |
| D042 HAROLD SULLIVAN          | 23                                                              | 3.3                                          | 63                                                | 5.1                            | 21.5                        | 6.1                                          | 14                                                  |
| D045 PAUL BOONE               | 19                                                              | 3.6                                          | 35                                                | 5.1                            | 20.0                        | 2.6                                          | 5.1                                                 |
| D047 ELLA LADENER             | 15                                                              | 2.9                                          | 22                                                | 5.2                            | 22.0                        | 1.7                                          | 2.4                                                 |

QUALITY OF GROUND WATER  
BRINE CONTAMINATION PROJECT--Continued

| LOCAL<br>IDENT-<br>IFIER | STATION         | NUMBER  | GEO-<br>LOGIC<br>UNIT | DATE<br>OF<br>SAMPLE | TIME | SAMPLE<br>SOURCE | SAM-<br>PLING<br>CONDI-<br>TION | DEPTH<br>BELOW<br>LAND<br>SURFACE<br>(WATER<br>LEVEL)<br>(FEET) | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET) | ELEV.<br>OF LAND<br>SURFACE<br>DATUM<br>(FT.<br>ABOVE<br>NGVD) |
|--------------------------|-----------------|---------|-----------------------|----------------------|------|------------------|---------------------------------|-----------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------|
| ADAMS                    |                 |         |                       |                      |      |                  |                                 |                                                                 |                                         |                                                                |
| G035 WILSON ESTATE #1    | 313035091184101 | 122MOCN | 05-13-85              | 1245                 | 31   | 8.00             | --                              | 660                                                             | 340.00                                  |                                                                |
| FORREST                  |                 |         |                       |                      |      |                  |                                 |                                                                 |                                         |                                                                |
| K026 A J DANNER          | 310028089164201 | 121CRNL | 08-28-85              | 0835                 | 27   | 8.00             | --                              | 125                                                             | 275.00                                  |                                                                |
| M059 W C ENTREKIN        | 305859089182001 | 122MOCN | 06-11-85              | 1030                 | 30   | .10              | --                              | 350                                                             | 275.00                                  |                                                                |
| M073 GEORGE MCCARDLE     | 305757089193401 | 122MOCN | 06-12-85              | 1110                 | 30   | .10              | --                              | 382                                                             | 263.00                                  |                                                                |
| M077 DOUGLAS WALTERS     | 305922089171201 | 121CRNL | 06-11-85              | 1528                 | 30   | .10              | --                              | 44.00                                                           | 279.00                                  |                                                                |
| M082 JIMMY J JONES       | 305819089181701 | 122MOCN | 06-18-85              | 1315                 | 30   | .10              | --                              | 360                                                             | 225.00                                  |                                                                |
| M084 DAVID MARTIN        | 305854089200401 | 121CRNL | 06-19-85              | 1410                 | 30   | .10              | --                              | 70.00                                                           | 297.00                                  |                                                                |
| M086 TOM DANA            | 305447089185201 | 121CRNL | 08-08-85              | 0928                 | 30   | .10              | --                              | 55.00                                                           | 204.00                                  |                                                                |
| FRANKLIN                 |                 |         |                       |                      |      |                  |                                 |                                                                 |                                         |                                                                |
| B013 FRANKLIN CO W A     | 313253090574901 | 122MOCN | 01-14-85              | 1300                 | 1    | 8.00             | 148.00                          | 193                                                             | 400.00                                  |                                                                |
| LAMAR                    |                 |         |                       |                      |      |                  |                                 |                                                                 |                                         |                                                                |
| FS01 CAMERON SPRING      | 311214089341965 | --      | 05-14-85              | 1130                 | 28   | 8.00             | --                              | --                                                              | 280.00                                  |                                                                |
| F015 BUEL BRYANT         | 311125089334301 | 121CRNL | 05-14-85              | 1050                 | 30   | .10              | --                              | 80.01                                                           | 325.00                                  |                                                                |
| J136 BAXTERVILLE         | 310517089355501 | 121CRNL | 08-27-85              | 1015                 | 1    | 8.00             | --                              | 200                                                             | 416.00                                  |                                                                |
| K004 B ANDERSON          | 310857089330001 | 121CRNL | 05-14-85              | 0952                 | 30   | .10              | --                              | 90.00                                                           | 360.00                                  |                                                                |
| K007 COLON DOBSON        | 310917089314301 | 121CRNL | 05-14-85              | 0905                 | 10   | 8.00             | --                              | 130                                                             | 360.00                                  |                                                                |
| M086 Y F DAVIS           | 310402089382201 | 122MOCN | 05-14-85              | 1555                 | 30   | .10              | --                              | 235                                                             | 240.00                                  |                                                                |
| M089 JAMES MONROE        | 310320089343601 | 121CRNL | 05-29-85              | 1345                 | 27   | .10              | --                              | 100                                                             | 367.00                                  |                                                                |
| LINCOLN                  |                 |         |                       |                      |      |                  |                                 |                                                                 |                                         |                                                                |
| F034 L L CASE            | 313642090332001 | 121CRNL | 07-17-85              | 1240                 | 26   | .10              | --                              | 100                                                             | 496.00                                  |                                                                |
| G062 J CASE JR           | 313541090315301 | 121CRNL | 07-18-85              | 1240                 | 30   | .10              | 32.30                           | 45.00                                                           | 458.00                                  |                                                                |
| G114 CHARLES CASE        | 313536090320401 | 121CRNL | 07-18-85              | 1135                 | 30   | .10              | 34.50                           | 84.00                                                           | 450.00                                  |                                                                |
| G139 CURTIS NATIONS      | 313536090322601 | 121CRNL | 07-17-85              | 1145                 | 30   | .10              | 71.50                           | 93.00                                                           | 495.00                                  |                                                                |
| G141 DYKES A BRITT       | 313558090325501 | 121CRNL | 07-25-85              | 1633                 | 30   | .10              | 52.00                           | 70.00                                                           | 463.00                                  |                                                                |
| MARION                   |                 |         |                       |                      |      |                  |                                 |                                                                 |                                         |                                                                |
| R029 VIRGIS SCHRADER     | 310339089393801 | 122MOCN | 05-14-85              | 1500                 | 30   | 8.00             | --                              | 148                                                             | 200.00                                  |                                                                |

## QUALITY OF GROUND WATER

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## BRINE CONTAMINATION PROJECT--Continued

| LOCAL<br>IDENT-<br>IFIER | PUMP<br>OR FLOW<br>PERIOD<br>PRIOR<br>TO SAM-<br>PLING<br>(MIN) | FLOW<br>RATE,<br>INSTAN-<br>TANEOUS<br>(GPM) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CACO3) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) |
|--------------------------|-----------------------------------------------------------------|----------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|----------------------------------------------|----------------------------------------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|
| ADAMS                    |                                                                 |                                              |                                                   |                                |                             |                                              |                                        |                                                        |                                              |                                                      |
| G035 WILSON ESTATE #1    | 60                                                              | 63                                           | 500                                               | 6.7                            | 22.0                        | 100                                          | 140                                    | 0                                                      | 35                                           | 12                                                   |
| FORREST                  |                                                                 |                                              |                                                   |                                |                             |                                              |                                        |                                                        |                                              |                                                      |
| K026 A J DANNER          | 20                                                              | 5.5                                          | 43                                                | 5.9                            | 20.5                        | --                                           | 8                                      | 0                                                      | 2.1                                          | .55                                                  |
| M059 W C ENTREKIN        | 40                                                              | 4.2                                          | 135                                               | 6.6                            | 22.0                        | --                                           | 28                                     | 0                                                      | 8.4                                          | 1.7                                                  |
| M073 GEORGE MCCARDLE     | 29                                                              | 3.5                                          | 100                                               | 6.5                            | 22.0                        | --                                           | 17                                     | 0                                                      | 5.2                                          | 1.0                                                  |
| M077 DOUGLAS WALTERS     | 19                                                              | 7.0                                          | 210                                               | 5.0                            | 20.0                        | --                                           | 54                                     | 50                                                     | 9.7                                          | 7.1                                                  |
| M082 JIMMY J JONES       | 31                                                              | 3.5                                          | 100                                               | 6.5                            | 21.0                        | --                                           | 14                                     | 0                                                      | 4.1                                          | 1.0                                                  |
| M084 DAVID MARTIN        | 23                                                              | 5.1                                          | 210                                               | 5.0                            | 21.0                        | --                                           | 24                                     | 21                                                     | 7.7                                          | 1.2                                                  |
| M086 TOM DANA            | 28                                                              | 3.6                                          | 60                                                | 5.1                            | 20.5                        | --                                           | 11                                     | --                                                     | 1.6                                          | 1.6                                                  |
| FRANKLIN                 |                                                                 |                                              |                                                   |                                |                             |                                              |                                        |                                                        |                                              |                                                      |
| B013 FRANKLIN CO W A     | 1440                                                            | 75                                           | 10900                                             | 5.8                            | 19.0                        | <1                                           | 380                                    | 360                                                    | 100                                          | 29                                                   |
| LAMAR                    |                                                                 |                                              |                                                   |                                |                             |                                              |                                        |                                                        |                                              |                                                      |
| FS01 CAMERON SPRING      | 15                                                              | 4.1                                          | 19                                                | 5.1                            | 25.0                        | --                                           | 3                                      | 0                                                      | .40                                          | .57                                                  |
| F015 BUEL BRYANT         | 15                                                              | 3.2                                          | 21                                                | 5.1                            | 20.0                        | --                                           | 4                                      | 0                                                      | .54                                          | .56                                                  |
| J136 BAXTERVILLE         | 25                                                              | 170                                          | 34                                                | 5.3                            | 19.5                        | 5                                            | 6                                      | 3                                                      | .98                                          | .94                                                  |
| K004 B ANDERSON          | 12                                                              | 4.2                                          | 36                                                | 5.2                            | 20.0                        | --                                           | 5                                      | 2                                                      | .71                                          | .85                                                  |
| K007 COLON DOBSON        | 11                                                              | 2.3                                          | 56                                                | 5.2                            | 21.0                        | --                                           | 17                                     | 14                                                     | 4.8                                          | 1.2                                                  |
| M086 V F DAVIS           | 33                                                              | 2.0                                          | 156                                               | 4.9                            | 23.0                        | --                                           | 33                                     | 29                                                     | 5.9                                          | 4.4                                                  |
| M089 JAMES MONROE        | 23                                                              | 2.1                                          | 32                                                | 5.5                            | 21.0                        | --                                           | 6                                      | 0                                                      | 1.3                                          | .74                                                  |
| LINCOLN                  |                                                                 |                                              |                                                   |                                |                             |                                              |                                        |                                                        |                                              |                                                      |
| F034 L L CASE            | 23                                                              | 4.2                                          | 70                                                | 5.3                            | 20.0                        | --                                           | 14                                     | 7                                                      | 3.5                                          | 1.2                                                  |
| G062 J CASE JR           | 47                                                              | .90                                          | 455                                               | 5.2                            | 21.0                        | --                                           | 7                                      | 0                                                      | .91                                          | 1.1                                                  |
| G114 CHARLES CASE        | 20                                                              | 5.3                                          | 583                                               | 5.1                            | 19.0                        | --                                           | 51                                     | 44                                                     | 12                                           | 5.0                                                  |
| G139 CURTIS NATIONS      | 23                                                              | 7.0                                          | 505                                               | 4.8                            | 20.0                        | --                                           | 81                                     | 77                                                     | 18                                           | 8.6                                                  |
| G141 DYKES A BRITT       | 23                                                              | 3.2                                          | 133                                               | 5.0                            | 20.0                        | --                                           | 20                                     | 15                                                     | 4.2                                          | 2.4                                                  |
| MARION                   |                                                                 |                                              |                                                   |                                |                             |                                              |                                        |                                                        |                                              |                                                      |
| R029 VIRGIS SCHRADER     | 20                                                              | 2.4                                          | 36                                                | 5.4                            | 21.0                        | --                                           | 8                                      | 0                                                      | 1.8                                          | .87                                                  |

## QUALITY OF GROUND WATER

## BRINE CONTAMINATION PROJECT--Continued

| LOCAL<br>IDENT-<br>I-<br>FIER | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LINITY<br>LAB<br>(MG/L<br>AS<br>CAC03) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | BROMIDE<br>DIS-<br>SOLVED<br>(MG/L<br>AS BR) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) |
|-------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|----------------------------------------------|---------------------------------------------------|
| ADAMS                         |                                              |                   |                                         |                                                     |                                                 |                                               |                                                     |                                                    |                                              |                                                   |
| G035 WILSON ESTATE #1         | 58                                           | 47                | 2                                       | 5.0                                                 | 258                                             | 15                                            | 5.0                                                 | .20                                                | .02                                          | 52                                                |
| FORREST                       |                                              |                   |                                         |                                                     |                                                 |                                               |                                                     |                                                    |                                              |                                                   |
| K026 A J DANNER               | 4.8                                          | 51                | .8                                      | 1.9                                                 | 16                                              | .5                                            | 3.0                                                 | --                                                 | <.01                                         | 33                                                |
| M059 W C ENTREKIN             | 17                                           | 55                | 1                                       | 1.4                                                 | 57                                              | 6.3                                           | 3.6                                                 | --                                                 | .02                                          | 46                                                |
| M073 GEORGE MCCARDLE          | 14                                           | 62                | 2                                       | 1.5                                                 | 37                                              | 7.6                                           | 3.1                                                 | --                                                 | .02                                          | 53                                                |
| M077 DOUGLAS WALTERS          | 11                                           | 30                | .7                                      | 2.1                                                 | 4.0                                             | <.2                                           | 55                                                  | --                                                 | .23                                          | 11                                                |
| M082 JIMMY J JONES            | 12                                           | 62                | 1                                       | 1.2                                                 | 34                                              | 7.9                                           | 3.9                                                 | --                                                 | .02                                          | 52                                                |
| M084 DAVID MARTIN             | 28                                           | 71                | 3                                       | .60                                                 | 3.0                                             | 4.5                                           | 57                                                  | --                                                 | .28                                          | 9.4                                               |
| M086 TOM DANA                 | 5.1                                          | 47                | .7                                      | 1.4                                                 | --                                              | .3                                            | 8.4                                                 | --                                                 | .04                                          | 15                                                |
| FRANKLIN                      |                                              |                   |                                         |                                                     |                                                 |                                               |                                                     |                                                    |                                              |                                                   |
| B013 FRANKLIN CO W A          | 2100                                         | 92                | 49                                      | 12                                                  | 15                                              | 2.2                                           | 3800                                                | <.10                                               | 3.8                                          | 15                                                |
| LAMAR                         |                                              |                   |                                         |                                                     |                                                 |                                               |                                                     |                                                    |                                              |                                                   |
| FS01 CAMERON SPRING           | 1.7                                          | 49                | .4                                      | .40                                                 | 4.0                                             | .8                                            | 2.9                                                 | --                                                 | <.01                                         | 7.7                                               |
| F015 BUEL BRYANT              | 1.8                                          | 48                | .4                                      | .40                                                 | 4.0                                             | .3                                            | 3.5                                                 | --                                                 | <.01                                         | 8.5                                               |
| J136 BAXTERVILLE              | 2.7                                          | 45                | .5                                      | .60                                                 | 3.0                                             | .2                                            | 4.8                                                 | <.10                                               | .03                                          | 8.9                                               |
| K004 B ANDERSON               | 3.5                                          | 56                | .7                                      | .60                                                 | 3.0                                             | .3                                            | 4.3                                                 | --                                                 | .01                                          | 8.5                                               |
| K007 COLON DOBSON             | 4.1                                          | 32                | .5                                      | 1.3                                                 | 3.0                                             | .2                                            | 6.2                                                 | --                                                 | .02                                          | 11                                                |
| M086 V F DAVIS                | 14                                           | 46                | 1                                       | 1.9                                                 | 4.0                                             | .5                                            | 44                                                  | --                                                 | .32                                          | 15                                                |
| M089 JAMES MONROE             | 2.4                                          | 40                | .4                                      | 1.2                                                 | 8.0                                             | 1.6                                           | 3.0                                                 | --                                                 | <.01                                         | 15                                                |
| LINCOLN                       |                                              |                   |                                         |                                                     |                                                 |                                               |                                                     |                                                    |                                              |                                                   |
| F034 L L CASE                 | 5.6                                          | 43                | .7                                      | 2.0                                                 | 7.0                                             | 1.3                                           | 14                                                  | --                                                 | .10                                          | 16                                                |
| G062 J CASE JR                | 77                                           | 95                | 13                                      | .90                                                 | 8.0                                             | 2.1                                           | 120                                                 | --                                                 | .45                                          | 14                                                |
| G114 CHARLES CASE             | 85                                           | 77                | 5                                       | 2.8                                                 | 7.0                                             | .5                                            | 170                                                 | --                                                 | .84                                          | 13                                                |
| G139 CURTIS NATIONS           | 54                                           | 58                | 3                                       | 3.0                                                 | 4.0                                             | .4                                            | 140                                                 | --                                                 | .32                                          | 12                                                |
| G141 DYKES A BRITT            | 15                                           | 60                | 1                                       | 1.3                                                 | 5.0                                             | <.2                                           | 34                                                  | --                                                 | .12                                          | 12                                                |
| MARION                        |                                              |                   |                                         |                                                     |                                                 |                                               |                                                     |                                                    |                                              |                                                   |
| R029 VIRGIS SCHRADER          | 2.9                                          | 38                | .5                                      | 1.6                                                 | 11                                              | .3                                            | 4.0                                                 | --                                                 | <.01                                         | 20                                                |



## QUALITY OF GROUND WATER

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## BRINE CONTAMINATION PROJECT--Continued

| LOCAL<br>IDENT-<br>I-<br>FIER | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTITUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR) |
|-------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------|--------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| ADAMS                         |                                                                    |                                                                |                                              |                                            |                                                      |                                                      |
| G035 WILSON ESTATE #1         | 335                                                                | 340                                                            | 240                                          | 1100                                       | 210                                                  | 520                                                  |
| FORREST                       |                                                                    |                                                                |                                              |                                            |                                                      |                                                      |
| K026 A J DANNER               | 62                                                                 | 56                                                             | 35                                           | 11                                         | --                                                   | 24                                                   |
| M059 W C ENTREKIN             | 100                                                                | 120                                                            | 110                                          | 270                                        | --                                                   | 69                                                   |
| M073 GEORGE MCCARDLE          | 110                                                                | 110                                                            | 64                                           | 500                                        | --                                                   | 58                                                   |
| M077 DOUGLAS WALTERS          | 153                                                                | --                                                             | 350                                          | 120                                        | --                                                   | 92                                                   |
| M082 JIMMY J JONES            | 118                                                                | 110                                                            | 49                                           | 4200                                       | --                                                   | 45                                                   |
| M084 DAVID MARTIN             | 149                                                                | 110                                                            | 65                                           | 98                                         | --                                                   | 210                                                  |
| M086 TOM DANA                 | 43                                                                 | --                                                             | 130                                          | 5                                          | --                                                   | 29                                                   |
| FRANKLIN                      |                                                                    |                                                                |                                              |                                            |                                                      |                                                      |
| B013 FRANKLIN CO W A          | 6630                                                               | 6100                                                           | --                                           | 180                                        | 630                                                  | 6600                                                 |
| LAMAR                         |                                                                    |                                                                |                                              |                                            |                                                      |                                                      |
| FS01 CAMERON SPRING           | 12                                                                 | 17                                                             | 31                                           | 17                                         | --                                                   | 8                                                    |
| F015 BUEL BRYANT              | 15                                                                 | 18                                                             | 23                                           | 18                                         | --                                                   | 8                                                    |
| J136 BAXTERVILLE              | 25                                                                 | 21                                                             | 27                                           | 5                                          | 8                                                    | 12                                                   |
| K004 B ANDERSON               | 22                                                                 | 21                                                             | 48                                           | 69                                         | --                                                   | 12                                                   |
| K007 COLON DOBSON             | 40                                                                 | 31                                                             | 68                                           | 13                                         | --                                                   | 19                                                   |
| M086 V F DAVIS                | 132                                                                | 89                                                             | 210                                          | 120                                        | --                                                   | 56                                                   |
| M089 JAMES MONROE             | 39                                                                 | 30                                                             | 58                                           | <3                                         | --                                                   | 20                                                   |
| LINCOLN                       |                                                                    |                                                                |                                              |                                            |                                                      |                                                      |
| F034 L L CASE                 | 55                                                                 | 48                                                             | 60                                           | 21                                         | --                                                   | 21                                                   |
| G062 J CASE JR                | 239                                                                | 220                                                            | 74                                           | 540                                        | --                                                   | 24                                                   |
| G114 CHARLES CASE             | 333                                                                | 290                                                            | 280                                          | 150                                        | --                                                   | 73                                                   |
| G139 CURTIS NATIONS           | 282                                                                | 240                                                            | 310                                          | 27                                         | --                                                   | 110                                                  |
| G141 DYKES A BRITT            | 85                                                                 | --                                                             | 97                                           | 64                                         | --                                                   | 32                                                   |
| MARION                        |                                                                    |                                                                |                                              |                                            |                                                      |                                                      |
| R029 VIRGIS SCHRADER          | 39                                                                 | 38                                                             | 55                                           | 20                                         | --                                                   | 15                                                   |

QUALITY OF GROUND WATER  
BRINE CONTAMINATION PROJECT--Continued

| LOCAL<br>IDENT-<br>I-<br>FIER | STATION         | NUMBER | GEO-<br>LOGIC<br>UNIT | DATE<br>OF<br>SAMPLE | TIME | SAMPLE<br>SOURCE | SAM-<br>PLING<br>CONDI-<br>TION | DEPTH<br>BELOW<br>LAND<br>SURFACE<br>(WATER<br>LEVEL)<br>(FEET) | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET) | ELEV.<br>OF LAND<br>SURFACE<br>DATUM<br>(FT.<br>ABOVE<br>NGVD) |
|-------------------------------|-----------------|--------|-----------------------|----------------------|------|------------------|---------------------------------|-----------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------|
| PEARL RIVER                   |                 |        |                       |                      |      |                  |                                 |                                                                 |                                         |                                                                |
| D021 G MERRITT                | 305935089220801 |        | 122MOCN               | 05-15-85             | 1450 | 30               | 8.00                            | --                                                              | 90.00                                   | 248.00                                                         |
| D026 A W NALL                 | 305934089220901 |        | 122MOCN               | 05-31-85             | 1505 | 30               | .10                             | --                                                              | 52.00                                   | 260.00                                                         |
| D027 J B MERRITT              | 305931089220901 |        | 122MOCN               | 08-07-85             | 1420 | 26               | .10                             | 35.28                                                           | 97.00                                   | 265.00                                                         |
| D028 R BOE                    | 305902089225401 |        | 122MOCN               | 05-30-85             | 1122 | 30               | .11                             | --                                                              | 200                                     | 250.00                                                         |
| D030 J HOLSTON                | 305928089220201 |        | 122MOCN               | 05-15-85             | 1520 | 31               | .10                             | --                                                              | 50.00                                   | 260.00                                                         |
| D033 J HOLSTON                | 305928089220801 |        | 122MOCN               | 08-07-85             | 1245 | 26               | .10                             | 15.07                                                           | 50.00                                   | 250.00                                                         |
| D043 J B MERRITT              | 305935089221301 |        | 121CRNL               | 05-31-85             | 1605 | 27               | .10                             | --                                                              | 50.00                                   | 252.00                                                         |
| D044 RONALD BRELAND           | 305836089210901 |        | 121CRNL               | 05-31-85             | 1150 | 30               | .10                             | --                                                              | 40.00                                   | 250.00                                                         |
| D046 DAVID W SMITH            | 305828089204101 |        | 121CRNL               | 06-18-85             | 1510 | 30               | .10                             | --                                                              | 42.00                                   | 242.00                                                         |
| D048 DONALD HOWARD            | 305552089210801 |        | 121CRNL               | 08-28-85             | 1020 | 27               | 8.00                            | --                                                              | 80.00                                   | 280.00                                                         |
| D049 SELMON REDMAN            | 305618089240501 |        | 121CRNL               | 08-28-85             | 1130 | 30               | 8.00                            | --                                                              | 80.00                                   | 250.00                                                         |

| LOCAL<br>IDENT-<br>I-<br>FIER | PUMP<br>OR FLOW<br>PERIOD<br>PRIOR<br>TO SAM-<br>PLING<br>(MIN) | FLOW<br>RATE,<br>INSTAN-<br>TANEOUS<br>(GPM) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | HARD-<br>NESS<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CAC03) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) |
|-------------------------------|-----------------------------------------------------------------|----------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|----------------------------------------------|----------------------------------------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|
| PEARL RIVER                   |                                                                 |                                              |                                                   |                                |                             |                                              |                                        |                                                        |                                              |                                                      |
| D021 G MERRITT                | 14                                                              | 3.3                                          | 31                                                | 5.4                            | 20.0                        | --                                           | 6                                      | 0                                                      | 1.6                                          | .59                                                  |
| D026 A W NALL                 | 20                                                              | 13                                           | 875                                               | 4.5                            | 20.0                        | --                                           | 150                                    | 150                                                    | 29                                           | 19                                                   |
| D027 J B MERRITT              | --                                                              | --                                           | 2300                                              | 4.2                            | 19.5                        | --                                           | 470                                    | --                                                     | 76                                           | 66                                                   |
| D028 R BOE                    | 15                                                              | 8.5                                          | 310                                               | 4.5                            | 20.5                        | --                                           | 48                                     | 46                                                     | 6.7                                          | 7.4                                                  |
| D030 J HOLSTON                | 15                                                              | 4.2                                          | 4500                                              | 4.4                            | 19.5                        | --                                           | 1100                                   | --                                                     | 210                                          | 130                                                  |
| D033 J HOLSTON                | 0                                                               | .00                                          | 750                                               | 5.2                            | 19.5                        | --                                           | 160                                    | --                                                     | 30                                           | 21                                                   |
| D043 J B MERRITT              | 15                                                              | 4.4                                          | 80                                                | 4.8                            | 21.0                        | --                                           | 11                                     | 8                                                      | 1.9                                          | 1.5                                                  |
| D044 RONALD BRELAND           | 22                                                              | 4.1                                          | 116                                               | 4.8                            | 21.5                        | --                                           | 16                                     | 12                                                     | 2.8                                          | 2.1                                                  |
| D046 DAVID W SMITH            | 33                                                              | 3.6                                          | 102                                               | 4.8                            | 19.0                        | --                                           | 10                                     | 8                                                      | 1.2                                          | 1.6                                                  |
| D048 DONALD HOWARD            | 17                                                              | 10                                           | 34                                                | 5.1                            | 19.5                        | --                                           | 7                                      | 4                                                      | 1.4                                          | .73                                                  |
| D049 SELMON REDMAN            | 23                                                              | 4.8                                          | 29                                                | 5.0                            | 20.0                        | --                                           | 3                                      | 0                                                      | .29                                          | .51                                                  |

## BRINE CONTAMINATION PROJECT--Continued

| LOCAL<br>IDENT-<br>I-<br>FIER | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LINITY<br>LAB<br>(MG/L<br>AS<br>CAC03) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS S04) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | BROMIDE<br>DIS-<br>SOLVED<br>(MG/L<br>AS BR) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SI02) |
|-------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|----------------------------------------------|---------------------------------------------------|
| PEARL RIVER                   |                                              |                   |                                         |                                                     |                                                 |                                               |                                                     |                                                    |                                              |                                                   |
| D021 G MERRITT                | 2.2                                          | 37                | .4                                      | 1.3                                                 | 7.0                                             | .4                                            | 3.9                                                 | --                                                 | .03                                          | 16                                                |
| D026 A W NALL                 | 81                                           | 53                | 3                                       | 2.9                                                 | 1.0                                             | <.2                                           | 250                                                 | --                                                 | 1.3                                          | 10                                                |
| D027 J B MERRITT              | 260                                          | 54                | 5                                       | 9.0                                                 | <1.0                                            | .7                                            | 780                                                 | --                                                 | 4.7                                          | 12                                                |
| D028 R BOE                    | 31                                           | 57                | 2                                       | 2.3                                                 | 2.0                                             | <.2                                           | 82                                                  | --                                                 | .40                                          | 9.7                                               |
| D030 J HOLSTON                | 610                                          | 55                | 8                                       | 10                                                  | <1.0                                            | .2                                            | 1600                                                | --                                                 | 8.6                                          | 12                                                |
| D033 J HOLSTON                | 69                                           | 47                | 2                                       | 5.7                                                 | --                                              | .5                                            | 230                                                 | --                                                 | 1.6                                          | 12                                                |
| D043 J B MERRITT              | 8.4                                          | 61                | 1                                       | .70                                                 | 3.0                                             | .4                                            | 20                                                  | --                                                 | .14                                          | 6.9                                               |
| D044 RONALD BRELAND           | 4.3                                          | 22                | .5                                      | 13                                                  | 4.0                                             | 11                                            | 14                                                  | --                                                 | .05                                          | 8.8                                               |
| D046 DAVID W SMITH            | 13                                           | 73                | 2                                       | .60                                                 | 2.0                                             | <.2                                           | 28                                                  | --                                                 | .11                                          | 6.8                                               |
| D048 DONALD HOWARD            | 2.2                                          | 39                | .4                                      | .70                                                 | 3.0                                             | <.2                                           | 3.1                                                 | --                                                 | .02                                          | 8.7                                               |
| D049 SELMON REDMAN            | 2.8                                          | 63                | .7                                      | .60                                                 | 3.0                                             | 1.3                                           | 4.4                                                 | --                                                 | .02                                          | 7.3                                               |

| LOCAL<br>IDENT-<br>I-<br>FIER | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTI-<br>TUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR) |
|-------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------|--------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| PEARL RIVER                   |                                                                    |                                                                     |                                              |                                            |                                                      |                                                      |
| D021 G MERRITT                | 22                                                                 | 30                                                                  | 50                                           | 5                                          | --                                                   | 14                                                   |
| D026 A W NALL                 | 590                                                                | --                                                                  | 1400                                         | 16                                         | --                                                   | 440                                                  |
| D027 J B MERRITT              | 1470                                                               | --                                                                  | 4900                                         | 70                                         | --                                                   | 1300                                                 |
| D028 R BOE                    | 212                                                                | --                                                                  | 530                                          | 20                                         | --                                                   | 150                                                  |
| D030 J HOLSTON                | 3130                                                               | --                                                                  | 9400                                         | 1200                                       | --                                                   | 3800                                                 |
| D033 J HOLSTON                | 489                                                                | --                                                                  | 1600                                         | 2000                                       | --                                                   | 560                                                  |
| D043 J B MERRITT              | 58                                                                 | 42                                                                  | 100                                          | 16                                         | --                                                   | 26                                                   |
| D044 RONALD BRELAND           | 76                                                                 | 59                                                                  | 120                                          | 15                                         | --                                                   | 39                                                   |
| D046 DAVID W SMITH            | 61                                                                 | --                                                                  | 88                                           | 26                                         | --                                                   | 23                                                   |
| D048 DONALD HOWARD            | 23                                                                 | --                                                                  | 30                                           | 7                                          | --                                                   | 10                                                   |
| D049 SELMON REDMAN            | 18                                                                 | 19                                                                  | 28                                           | 8                                          | --                                                   | 5                                                    |

QUALITY OF GROUND WATER  
COASTAL GROUND WATER PROJECT  
WATER QUALITY DATA, APRIL TO MAY 1985

| LOCAL<br>IDENT-<br>IFIER | STATION NUMBER  | GEO-<br>LOGIC<br>UNIT | DATE<br>OF<br>SAMPLE | TIME | SAMPLE<br>SOURCE | SAM-<br>PLING<br>CONDI-<br>TION | DEPTH<br>BELOW<br>LAND<br>SURFACE<br>(WATER<br>LEVEL)<br>(FEET) | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET) | ELEV.<br>OF LAND<br>SURFACE<br>DATUM<br>(FT.<br>ABOVE<br>NGVD) |
|--------------------------|-----------------|-----------------------|----------------------|------|------------------|---------------------------------|-----------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------|
| HANCOCK                  |                 |                       |                      |      |                  |                                 |                                                                 |                                         |                                                                |
| J049 A J MORGAN          | 301749089265801 | 121 GRMF              | 05-07-85             | 1450 | 28               | .02                             | --                                                              | 839                                     | 10.00                                                          |
| K003 CLERMONT HARBOR     | 301537089250401 | 121 GRMF              | 05-07-85             | 1315 | 1                | 8.00                            | --                                                              | 1040                                    | 7.00                                                           |
| K004 BAY ST LOUIS        | 301900089201801 | 121 GRMF              | 05-03-85             | 1100 | 1                | 8.00                            | 5.49                                                            | 1210                                    | 16.00                                                          |
| K005 BAY ST LOUIS        | 301929089212801 | 121 GRMF              | 05-03-85             | 1030 | 1                | 8.00                            | 8.47                                                            | 1190                                    | 20.00                                                          |
| K007 BAY ST LOUIS        | 301840089195001 | 121 GRMF              | 05-03-85             | 1120 | 1                | 8.00                            | --                                                              | 914                                     | 20.00                                                          |
| K031 GEORGE RUIZ         | 301801089260901 | 121 GRMF              | 05-07-85             | 1510 | 1                | 4.00                            | --                                                              | 800                                     | 5.00                                                           |
| K055 S J PERNICIARO      | 301824089212602 | 121 GRMF              | 05-07-85             | 1540 | 28               | .02                             | --                                                              | 657                                     | 20.00                                                          |
| K072 CLERMONT HARBOR     | 301600089250101 | 121 GRMF              | 05-07-85             | 1335 | 1                | 8.00                            | --                                                              | 877                                     | 8.00                                                           |
| K080 CLERMONT HARBOR     | 301600089250001 | 121 GRMF              | 05-08-85             | 1300 | 1                | 8.00                            | --                                                              | 1240                                    | 8.00                                                           |
| K349 WAVELAND            | 301551089281201 | 121 GRMF              | 05-03-85             | 1345 | 1                | 8.00                            | --                                                              | 730                                     | 15.00                                                          |
| K377 BAY ST LOUIS        | 301915089202801 | 121 GRMF              | 05-03-85             | 1145 | 1                | 8.00                            | --                                                              | 1060                                    | 21.00                                                          |
| L001 HANCOCK COUNTY      | 301343089340201 | 122 PCGL              | 05-07-85             | 1550 | 1                | .02                             | --                                                              | 2000                                    | 11.00                                                          |
| HARRISON                 |                 |                       |                      |      |                  |                                 |                                                                 |                                         |                                                                |
| L002 GULFPORT            | 302220089055401 | 121 GRMF              | 04-30-85             | 1100 | 1                | 8.00                            | --                                                              | 815                                     | 22.00                                                          |
| L015 GULFPORT            | 302230089034202 | 121 GRMF              | 04-30-85             | 1505 | 1                | 8.00                            | --                                                              | 752                                     | 23.00                                                          |
| L016 GULFPORT            | 302336089045404 | 121 GRMF              | 04-30-85             | 1305 | 1                | 8.00                            | --                                                              | 815                                     | 20.00                                                          |
| L017 GULFPORT            | 302206089074505 | 121 GRMF              | 04-30-85             | 1135 | 1                | 8.00                            | --                                                              | 848                                     | 20.00                                                          |
| L084 GULFPORT            | 302440089033001 | 121 GRMF              | 04-30-85             | 1325 | 1                | 8.00                            | --                                                              | 645                                     | 25.00                                                          |
| L144 V A HOSPITAL        | 302240089025401 | 121 GRMF              | 04-30-85             | 1530 | 1                | 8.00                            | --                                                              | 898                                     | 21.00                                                          |
| L160 U S NAVY            | 302252089062001 | 122 PCGL              | 05-02-85             | 0915 | 1                | 8.00                            | --                                                              | 1190                                    | 26.00                                                          |
| L161 U S NAVY            | 302250089071801 | 121 GRMF              | 05-02-85             | 1000 | 1                | 8.00                            | --                                                              | 850                                     | 32.00                                                          |
| L162 U S NAVY            | 302251089072001 | 121 GRMF              | 05-02-85             | 1000 | 1                | 8.00                            | --                                                              | 757                                     | 28.00                                                          |
| L175 GULFPORT PORT AUTH  | 302110089053301 | 122 PCGL              | 04-30-85             | 1605 | 1                | 8.00                            | --                                                              | 1320                                    | 5.00                                                           |
| L405 GULFPORT            | 302357089064201 | 121 GRMF              | 04-30-85             | 1245 | 1                | 8.00                            | --                                                              | 795                                     | 25.00                                                          |
| L426 GULFPORT            | 302252089053301 | 121 GRMF              | 04-30-85             | 1230 | 1                | 8.00                            | --                                                              | 926                                     | 17.00                                                          |
| L430 U S NAVY            | 302251089062901 | 121 GRMF              | 05-02-85             | 0900 | 1                | 8.00                            | --                                                              | 746                                     | 32.00                                                          |
| L433 U S NAVY            | 302249089073701 | 121 GRMF              | 05-02-85             | 1030 | 1                | 8.00                            | 38.34                                                           | 720                                     | 31.00                                                          |
| M004 BILOXI              | 302342088563003 | 122 PCGL              | 05-01-85             | 0730 | 1                | 8.00                            | --                                                              | 1200                                    | 10.00                                                          |
| M005 BILOXI              | 302342088563006 | 121 GRMF              | 05-01-85             | 1000 | 1                | 8.00                            | 65.96                                                           | 865                                     | 30.00                                                          |
| M006 BILOXI HOSPITAL     | 302410088533607 | 121 GRMF              | 05-01-85             | 0855 | 1                | 8.00                            | --                                                              | 463                                     | 15.00                                                          |
| M033 BILOXI              | 302455088584001 | 121 GRMF              | 05-01-85             | 1145 | 1                | 8.00                            | --                                                              | 700                                     | 25.00                                                          |
| M045 BAKERS ACRE         | 302642088554301 | 121 GRMF              | 05-02-85             | 1730 | 30               | .11                             | --                                                              | 828                                     | 51.00                                                          |
| M067 U S AIR FORCE       | 302427088540001 | 121 GRMF              | 05-01-85             | 1100 | 1                | 8.00                            | --                                                              | 634                                     | 21.00                                                          |
| M115 BILOXI              | 302410088533601 | 122 PCGL              | 05-01-85             | 0945 | 1                | 8.00                            | --                                                              | 1220                                    | 32.00                                                          |

## COASTAL GROUND WATER PROJECT--Continued

| LOCAL<br>IDENT-<br>I-<br>FIER | PUMP<br>OR FLOW<br>PERIOD<br>PRIOR<br>TO SAM-<br>PLING<br>(MIN) | FLOW<br>RATE,<br>INSTAN-<br>TANEOUS<br>(GPM) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) |
|-------------------------------|-----------------------------------------------------------------|----------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|-----------------------------------------------------|
| HANCOCK                       |                                                                 |                                              |                                                   |                                |                             |                                                     |
| J049 A J MORGAN               | 15                                                              | --                                           | 500                                               | 9.0                            | 28.0                        | 25                                                  |
| K003 CLERMONT HARBOR          | 15                                                              | --                                           | 620                                               | 8.8                            | 29.5                        | 39                                                  |
| K004 BAY ST LOUIS             | 15                                                              | --                                           | 675                                               | 8.9                            | 28.0                        | 37                                                  |
| K005 BAY ST LOUIS             | 15                                                              | --                                           | 695                                               | 9.1                            | 21.5                        | 35                                                  |
| K007 BAY ST LOUIS             | 15                                                              | --                                           | 480                                               | 8.7                            | 26.5                        | 4.5                                                 |
| K031 GEORGE RUIZ              | 15                                                              | 50                                           | 500                                               | 8.6                            | 28.0                        | 27                                                  |
| K055 S J PERNICIARO           | 15                                                              | --                                           | 290                                               | 8.4                            | 26.0                        | 5.5                                                 |
| K072 CLERMONT HARBOR          | 15                                                              | --                                           | 465                                               | 8.7                            | 23.5                        | 19                                                  |
| K080 CLERMONT HARBOR          | 15                                                              | --                                           | 625                                               | 8.5                            | 26.0                        | 30                                                  |
| K349 MAYELAND                 | 15                                                              | --                                           | 330                                               | 8.9                            | 27.5                        | 9.6                                                 |
| K377 BAY ST LOUIS             | 15                                                              | --                                           | 700                                               | 8.9                            | 29.0                        | 46                                                  |
| L001 HANCOCK COUNTY           | 15                                                              | --                                           | 600                                               | 8.7                            | 32.5                        | 49                                                  |
| HARRISON                      |                                                                 |                                              |                                                   |                                |                             |                                                     |
| L002 GULFPORT                 | 15                                                              | --                                           | 290                                               | 8.3                            | 27.0                        | 4.8                                                 |
| L015 GULFPORT                 | 15                                                              | --                                           | 265                                               | 8.9                            | 26.5                        | 4.8                                                 |
| L016 GULFPORT                 | 15                                                              | --                                           | 265                                               | 8.7                            | 27.0                        | 3.4                                                 |
| L017 GULFPORT                 | 15                                                              | --                                           | 260                                               | 7.3                            | 27.0                        | 4.4                                                 |
| L084 GULFPORT                 | 15                                                              | --                                           | 245                                               | 7.4                            | 25.5                        | 3.5                                                 |
| L144 V A HOSPITAL             | 15                                                              | --                                           | 405                                               | 8.5                            | 26.0                        | 4.4                                                 |
| L160 U S NAVY                 | 15                                                              | --                                           | 245                                               | 8.2                            | 26.0                        | 8.1                                                 |
| L161 U S NAVY                 | 15                                                              | --                                           | 280                                               | 8.9                            | 25.0                        | 4.7                                                 |
| L162 U S NAVY                 | 15                                                              | --                                           | 235                                               | 8.2                            | 24.5                        | 4.1                                                 |
| L175 GULFPORT PORT AUTH       | 15                                                              | --                                           | 790                                               | 9.0                            | 30.5                        | 9.8                                                 |
| L405 GULFPORT                 | 15                                                              | --                                           | 300                                               | 8.3                            | 26.5                        | 3.3                                                 |
| L426 GULFPORT                 | 15                                                              | --                                           | 355                                               | 9.2                            | 27.5                        | 3.4                                                 |
| L430 U S NAVY                 | 15                                                              | --                                           | 235                                               | 8.8                            | 26.0                        | 5.1                                                 |
| L433 U S NAVY                 | 15                                                              | --                                           | 235                                               | 7.8                            | 25.5                        | 4.7                                                 |
| M004 BILOXI                   | 15                                                              | --                                           | 550                                               | 9.3                            | 28.0                        | 50                                                  |
| M005 BILOXI                   | 15                                                              | --                                           | 380                                               | 9.1                            | 25.5                        | 12                                                  |
| M006 BILOXI HOSPITAL          | 15                                                              | --                                           | 305                                               | 9.0                            | 25.0                        | 4.4                                                 |
| M033 BILOXI                   | 15                                                              | --                                           | 320                                               | 8.9                            | 27.0                        | 4.6                                                 |
| M045 BAKERS ACRE              | 15                                                              | --                                           | 1000                                              | 9.0                            | 24.5                        | 180                                                 |
| M067 U S AIR FORCE            | 15                                                              | --                                           | 295                                               | 8.5                            | 26.0                        | 5.8                                                 |
| M115 BILOXI                   | 15                                                              | --                                           | 945                                               | 9.0                            | 29.5                        | 160                                                 |



QUALITY OF GROUND WATER  
COASTAL GROUND WATER PROJECT--Continued

| LOCAL<br>IDENT-<br>I-<br>FIER | STATION NUMBER  | GEO-<br>LOGIC<br>UNIT | DATE<br>OF<br>SAMPLE | TIME | SAMPLE<br>SOURCE | SAM-<br>PLING<br>CONDI-<br>TION | DEPTH<br>BELOW<br>LAND<br>SURFACE<br>(WATER<br>LEVEL)<br>(FEET) | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET) | ELEV.<br>OF LAND<br>SURFACE<br>DATUM<br>(FT.<br>ABOVE<br>NGVD) |
|-------------------------------|-----------------|-----------------------|----------------------|------|------------------|---------------------------------|-----------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------|
| HARRISON                      |                 |                       |                      |      |                  |                                 |                                                                 |                                         |                                                                |
| M351 BILOXI                   | 302350088570501 | 121 GRMF              | 05-01-85             | 1100 | 1                | 8.00                            | 66.17                                                           | 846                                     | 28.00                                                          |
| M397 GULFPORT                 | 302346089001501 | 121 GRMF              | 04-30-85             | 1420 | 1                | 8.00                            | --                                                              | 830                                     | 24.00                                                          |
| M519 BILOXI                   | 302554088580401 | 121 GRMF              | 05-01-85             | 1245 | 1                | 8.00                            | 65.00                                                           | 546                                     | 21.00                                                          |
| M550 BILOXI                   | 302456088541304 | 121 GRMF              | 05-01-85             | 0910 | 1                | 8.00                            | 73.96                                                           | 634                                     | 10.00                                                          |
| M576 BILOXI                   | 302404088590301 | 121 GRMF              | 05-01-85             | 1200 | 1                | 8.00                            | 63.72                                                           | 848                                     | 30.00                                                          |
| M643 D'IBERVILLE              | 302710088531501 | 121 GRMF              | 05-08-85             | 0915 | 1                | 8.00                            | 28.80                                                           | 840                                     | 23.00                                                          |
| M644 GULFPORT                 | 302352089015701 | 121 GRMF              | 04-30-85             | 1345 | 1                | 8.00                            | --                                                              | 820                                     | 25.00                                                          |
| M648 GULFPORT                 | 302409089002101 | 121 GRMF              | 04-30-85             | 1435 | 1                | 8.00                            | --                                                              | 845                                     | 26.00                                                          |
| M657 GULFPORT                 | 302304089020301 | 121 GRMF              | 04-30-85             | 1400 | 1                | 8.00                            | --                                                              | 900                                     | 20.00                                                          |
| M674 BILOXI                   | 302552088580401 | 121 GRMF              | 05-01-85             | 1300 | 1                | 8.00                            | --                                                              | 593                                     | 21.00                                                          |
| M696 BILOXI                   | 302428088531501 | 122 PCGL              | 05-01-85             | 0825 | 1                | 8.00                            | 26.14                                                           | 915                                     | 12.00                                                          |
| M704 BILOXI                   | 302540088565001 | 121 GRMF              | 05-01-85             | 1330 | 1                | 8.00                            | 48.61                                                           | 593                                     | 13.00                                                          |
| N102 PASS CHRISTIAN           | 301838089163201 | 121 GRMF              | 05-02-85             | 1445 | 1                | 8.00                            | --                                                              | 966                                     | 10.00                                                          |
| N191 PASS CHRISTIAN           | 301900089150001 | 121 GRMF              | 05-02-85             | 1510 | 1                | 8.00                            | --                                                              | 880                                     | 13.00                                                          |
| N313 PASS CHRISTIAN           | 301832089171301 | 121 GRMF              | 05-02-85             | 1420 | 1                | 8.00                            | --                                                              | 982                                     | 5.00                                                           |
| 0001 LONG BEACH               | 302045089103001 | 121 GRMF              | 05-02-85             | 1300 | 1                | 8.00                            | --                                                              | 926                                     | 25.00                                                          |
| 0006 PASS CHRISTIAN           | 301936089142403 | 121 GRMF              | 05-02-85             | 1530 | 1                | 8.00                            | --                                                              | 891                                     | 15.00                                                          |
| 0268 LONG BEACH               | 302059089090601 | 121 GRMF              | 05-02-85             | 1230 | 1                | 8.00                            | 29.90                                                           | 876                                     | 25.00                                                          |
| JACKSON                       |                 |                       |                      |      |                  |                                 |                                                                 |                                         |                                                                |
| N042 TREASURE OAK             | 302505088482401 | 122 PCGL              | 05-08-85             | 1100 | 28               | 4.00                            | --                                                              | 1220                                    | 24.00                                                          |
| N052 OCEAN SPRINGS            | 302437088493601 | 121 GRMF              | 04-26-85             | 0915 | 1                | 8.00                            | --                                                              | 555                                     | 20.00                                                          |
| N069 OCEAN SPRINGS            | 302435088481701 | 121 GRMF              | 04-26-85             | 1045 | 1                | 8.00                            | 79.27                                                           | 540                                     | 23.00                                                          |
| N074 OCEAN SPRINGS            | 302439088474101 | 121 GRMF              | 04-26-85             | 1110 | 1                | 8.00                            | 76.09                                                           | 525                                     | 22.00                                                          |
| N090 OCEAN SPRINGS            | 302440088471301 | 121 GRMF              | 04-26-85             | 1135 | 1                | 8.00                            | 74.58                                                           | 565                                     | 20.00                                                          |
| N159 OCEAN SPRINGS            | 302409088494501 | 122 PCGL              | 04-26-85             | 0830 | 1                | 8.00                            | 39.71                                                           | 881                                     | 10.00                                                          |
| N520 OCEAN SPRINGS            | 302453088492401 | 121 GRMF              | 04-26-85             | 1015 | 1                | 8.00                            | 85.04                                                           | 533                                     | 20.00                                                          |
| 0283 JACKSON CO JR COL        | 302321088390201 | 122 PCGL              | 05-08-85             | 1450 | 1                | 8.00                            | 47.13                                                           | 870                                     | 21.00                                                          |
| P054 MOSS POINT               | 302422088321201 | 122 PCGL              | 04-23-85             | 1555 | 1                | 8.00                            | --                                                              | 808                                     | 18.00                                                          |
| P069 PASCAGOULA               | 302241088321701 | 121 GRMF              | 04-24-85             | 1650 | 1                | 8.00                            | --                                                              | 302                                     | 14.00                                                          |
| P108 JACKSON COUNTY           | 302149088340601 | 122 PCGL              | 04-25-85             | 1420 | 1                | 8.00                            | --                                                              | 783                                     | 7.00                                                           |
| P124 PASCAGOULA               | 302134088330803 | 122 PCGL              | 04-24-85             | 0730 | 1                | 8.00                            | 74.38                                                           | 801                                     | 11.00                                                          |
| P145 INGALLS CORP             | 302120088330001 | 122 PCGL              | 04-25-85             | 1330 | 1                | 8.00                            | 95.64                                                           | 805                                     | 10.00                                                          |
| P150 PASCAGOULA               | 302115088330404 | 122 PCGL              | 04-24-85             | 0800 | 1                | 8.00                            | --                                                              | 785                                     | 10.00                                                          |
| P166 QUAKER OATS CO           | 302157088335001 | 121 GRMF              | 04-25-85             | 0940 | 1                | 8.00                            | 57.93                                                           | 326                                     | 10.00                                                          |
| P229 MOSS POINT               | 302445088334501 | 122 PCGL              | 04-23-85             | 1610 | 1                | 8.00                            | --                                                              | 890                                     | 10.00                                                          |

QUALITY OF GROUND WATER  
COASTAL GROUND WATER PROJECT--Continued

| LOCAL<br>IDENT-<br>I-<br>FIER | PUMP<br>OR FLOW<br>PERIOD<br>PRIOR<br>TO SAM-<br>PLING<br>(MIN) | FLOW<br>RATE,<br>INSTAN-<br>TANEOUS<br>(GPM) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) |
|-------------------------------|-----------------------------------------------------------------|----------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|-----------------------------------------------------|
| HARRISON                      |                                                                 |                                              |                                                   |                                |                             |                                                     |
| M351 BILOXI                   | 15                                                              | --                                           | 390                                               | 9.3                            | 28.0                        | 8.6                                                 |
| M397 GULFPORT                 | 15                                                              | --                                           | 355                                               | 9.2                            | 27.5                        | 3.1                                                 |
| M519 BILOXI                   | 15                                                              | --                                           | 230                                               | 8.8                            | 26.5                        | 3.1                                                 |
| M550 BILOXI                   | 15                                                              | --                                           | 270                                               | 8.2                            | 25.5                        | 4.5                                                 |
| M576 BILOXI                   | --                                                              | --                                           | 415                                               | 9.1                            | 28.0                        | 12                                                  |
| M643 D'IBERVILLE              | 15                                                              | --                                           | 545                                               | 9.1                            | 27.5                        | 39                                                  |
| M644 GULFPORT                 | 15                                                              | --                                           | 415                                               | 9.0                            | 26.0                        | 13                                                  |
| M648 GULFPORT                 | 15                                                              | --                                           | 425                                               | 9.2                            | 28.0                        | 11                                                  |
| M657 GULFPORT                 | 15                                                              | --                                           | 420                                               | 9.0                            | 27.5                        | 9.9                                                 |
| M674 BILOXI                   | 15                                                              | --                                           | 320                                               | 9.3                            | 28.0                        | 13                                                  |
| M696 BILOXI                   | 15                                                              | --                                           | 500                                               | 9.2                            | 27.5                        | 31                                                  |
| M704 BILOXI                   | 10                                                              | --                                           | 325                                               | 8.6                            | 26.0                        | 3.5                                                 |
| N102 PASS CHRISTIAN           | 15                                                              | --                                           | 600                                               | 9.0                            | 28.0                        | 32                                                  |
| N191 PASS CHRISTIAN           | 15                                                              | --                                           | 595                                               | 9.0                            | 25.5                        | 48                                                  |
| N313 PASS CHRISTIAN           | 15                                                              | --                                           | 560                                               | 9.0                            | 28.0                        | 36                                                  |
| 0001 LONG BEACH               | 15                                                              | --                                           | 240                                               | 8.2                            | 27.5                        | 5.6                                                 |
| 0006 PASS CHRISTIAN           | --                                                              | --                                           | 460                                               | 8.9                            | 28.0                        | 18                                                  |
| 0268 LONG BEACH               | 15                                                              | --                                           | 250                                               | 8.4                            | 27.5                        | 4.1                                                 |
| JACKSON                       |                                                                 |                                              |                                                   |                                |                             |                                                     |
| N042 TREASURE OAK             | 15                                                              | --                                           | 1590                                              | 8.6                            | 24.5                        | 420                                                 |
| N052 OCEAN SPRINGS            | 15                                                              | --                                           | 570                                               | 9.0                            | 28.5                        | 62                                                  |
| N069 OCEAN SPRINGS            | 15                                                              | --                                           | 340                                               | 8.9                            | 26.0                        | 6.4                                                 |
| N074 OCEAN SPRINGS            | 15                                                              | --                                           | 330                                               | 8.6                            | 26.0                        | 4.6                                                 |
| N090 OCEAN SPRINGS            | 15                                                              | --                                           | 325                                               | --                             | 25.5                        | 4.8                                                 |
| N159 OCEAN SPRINGS            | 15                                                              | --                                           | 710                                               | 9.0                            | 28.0                        | 93                                                  |
| N520 OCEAN SPRINGS            | 15                                                              | --                                           | 350                                               | 9.0                            | 26.0                        | 5.2                                                 |
| 0283 JACKSON CO JR COL        | 15                                                              | --                                           | 1090                                              | 8.9                            | 28.5                        | 180                                                 |
| P054 MOSS POINT               | 15                                                              | --                                           | 950                                               | 8.9                            | 27.5                        | 150                                                 |
| P069 PASCAGOULA               | 15                                                              | --                                           | 1000                                              | 7.8                            | 23.5                        | 170                                                 |
| P108 JACKSON COUNTY           | 15                                                              | --                                           | 1500                                              | 8.6                            | 26.0                        | 360                                                 |
| P124 PASCAGOULA               | 15                                                              | --                                           | 1540                                              | 8.6                            | 26.0                        | 370                                                 |
| P145 INGALLS CORP             | 15                                                              | --                                           | 2200                                              | 8.6                            | 27.0                        | 710                                                 |
| P150 PASCAGOULA               | 15                                                              | --                                           | 1450                                              | 8.6                            | 25.5                        | 300                                                 |
| P166 QUAKER OATS CO           | 15                                                              | --                                           | 690                                               | 8.0                            | 23.5                        | 77                                                  |
| P229 MOSS POINT               | 15                                                              | --                                           | 1190                                              | 8.7                            | 26.5                        | 220                                                 |

QUALITY OF GROUND WATER  
COASTAL GROUND WATER PROJECT--Continued

| LOCAL<br>IDENT-<br>I-<br>FIER | STATION NUMBER  | GEO-<br>LOGIC<br>UNIT | DATE<br>OF<br>SAMPLE | TIME | SAMPLE<br>SOURCE | SAM-<br>PLING<br>CONDI-<br>TION | DEPTH<br>BELOW<br>LAND<br>SURFACE<br>( WATER<br>LEVEL )<br>( FEET ) | DEPTH<br>OF<br>WELL,<br>TOTAL<br>( FEET ) | ELEV.<br>OF LAND<br>SURFACE<br>DATUM<br>( FT.<br>ABOVE<br>NGVD ) |
|-------------------------------|-----------------|-----------------------|----------------------|------|------------------|---------------------------------|---------------------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------|
| JACKSON                       |                 |                       |                      |      |                  |                                 |                                                                     |                                           |                                                                  |
| P291 INGALLS CORP             | 302100088341501 | 121GRMF               | 04-25-85             | 1130 | 1                | 8.00                            | 60.43                                                               | 280                                       | 10.00                                                            |
| P348 INGALLS CORP             | 302057088333901 | 122PCGL               | 04-25-85             | 1255 | 1                | 8.00                            | 93.37                                                               | 800                                       | 10.00                                                            |
| P349 INGALLS CORP             | 302101088341501 | 122PCGL               | 04-25-85             | 1200 | 1                | 8.00                            | 69.67                                                               | 782                                       | 10.00                                                            |
| P355 MOSS POINT               | 302323088321801 | 122PCGL               | 04-23-85             | 1450 | 1                | 8.00                            | --                                                                  | 827                                       | 14.00                                                            |
| P370 PASCAGOULA ICE           | 302021088331001 | 121CRNL               | 05-08-85             | 1345 | 1                | 8.00                            | --                                                                  | 180                                       | 16.00                                                            |
| P372 PASCAGOULA               | 302237088304501 | 121GRMF               | 04-24-85             | 0815 | 1                | 8.00                            | 51.37                                                               | 336                                       | 11.00                                                            |
| P373 INGALLS CORP             | 302105088342001 | 121GRMF               | 04-25-85             | 1055 | 1                | 8.00                            | 44.17                                                               | 320                                       | 10.00                                                            |
| P382 MOSS POINT               | 302428088325101 | 122PCGL               | 04-26-85             | 1640 | 1                | 8.00                            | --                                                                  | 846                                       | 10.00                                                            |
| Q018 THIOKOL CHEMICAL CO      | 302535088305605 | 121GRMF               | 04-23-85             | 1150 | 1                | 8.00                            | --                                                                  | 250                                       | 8.00                                                             |
| Q019 ZAPATA                   | 302524088305501 | 122PCGL               | 04-23-85             | 1300 | 27               | 4.00                            | --                                                                  | 950                                       | 6.00                                                             |
| Q027 SMITH FISHERY            | 302535088303503 | 121GRMF               | 04-23-85             | 1330 | 1                | 8.00                            | --                                                                  | 240                                       | 4.00                                                             |
| Q032 C J MOZINGO              | 302532088271701 | 121GRMF               | 04-25-85             | 1700 | 28               | .11                             | --                                                                  | 241                                       | 7.00                                                             |
| Q048 HUGH L STORK             | 302400088283001 | 121GRMF               | 04-24-85             | 1535 | --               | .10                             | --                                                                  | 264                                       | 8.00                                                             |
| Q111 COASTAL CHEMICAL CO      | 302100088295501 | 121GRMF               | 04-24-85             | 1105 | 1                | 8.00                            | --                                                                  | 351                                       | 10.00                                                            |
| Q137 STANDARD OIL CO          | 302104088292701 | 121GRMF               | 04-24-85             | 1115 | 1                | 8.00                            | --                                                                  | 387                                       | 3.00                                                             |
| Q164 PASCAGOULA               | 302122088312401 | 122PCGL               | 04-24-85             | 0830 | 1                | 8.00                            | --                                                                  | 682                                       | 10.00                                                            |
| Q180 PASCAGOULA               | 302130088312901 | 122PCGL               | 04-24-85             | 0905 | 1                | 8.00                            | 183.85                                                              | 663                                       | 10.00                                                            |
| Q181 PASCAGOULA               | 302128088313101 | 122PCGL               | 04-24-85             | 0850 | 1                | 8.00                            | --                                                                  | 682                                       | 10.00                                                            |
| Q293 PASCAGOULA               | 302300088312001 | 121GRMF               | 04-24-85             | 1610 | 1                | 8.00                            | 117.55                                                              | 326                                       | 15.00                                                            |
| Q417 MOSS POINT               | 302344088320101 | 122PCGL               | 04-23-85             | 1400 | 1                | 8.00                            | --                                                                  | 802                                       | 20.00                                                            |
| Q420 PASCAGOULA               | 302247088302901 | 121GRMF               | 04-24-85             | 1000 | 1                | 8.00                            | 125.51                                                              | 346                                       | 10.00                                                            |
| Q421 COR-CHEM CORP            | 301952088294201 | 121GRMF               | 04-24-85             | 1230 | 1                | 8.00                            | --                                                                  | 366                                       | 5.00                                                             |

QUALITY OF GROUND WATER  
COASTAL GROUND WATER PROJECT--Continued

| LOCAL<br>IDENT-<br>I-<br>FIER | PUMP<br>OR FLOW<br>PERIOD<br>PRIOR<br>TO SAM-<br>PLING<br>(MIN) | FLOW<br>RATE,<br>INSTAN-<br>TANEOUS<br>(GPM) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) |
|-------------------------------|-----------------------------------------------------------------|----------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|-----------------------------------------------------|
| JACKSON                       |                                                                 |                                              |                                                   |                                |                             |                                                     |
| P291 INGALLS CORP             | 15                                                              | --                                           | 750                                               | 8.1                            | 24.0                        | 97                                                  |
| P348 INGALLS CORP             | 15                                                              | --                                           | 1440                                              | 8.7                            | 28.0                        | 290                                                 |
| P349 INGALLS CORP             | 15                                                              | --                                           | 1950                                              | 8.6                            | 28.0                        | 550                                                 |
| P355 MOSS POINT               | 15                                                              | --                                           | 1400                                              | 8.7                            | 28.0                        | 280                                                 |
| P370 PASCAGOULA ICE           | 15                                                              | --                                           | 360                                               | 6.8                            | 23.5                        | 51                                                  |
| P372 PASCAGOULA               | 15                                                              | --                                           | 1050                                              | 8.0                            | 23.5                        | 190                                                 |
| P373 INGALLS CORP             | 15                                                              | --                                           | 750                                               | 8.8                            | 24.5                        | 95                                                  |
| P382 MOSS POINT               | 15                                                              | --                                           | 990                                               | 8.8                            | 27.0                        | 160                                                 |
| Q018 THIOKOL CHEMICAL CO      | 15                                                              | --                                           | 500                                               | 7.1                            | 21.0                        | 35                                                  |
| Q019 ZAPATA                   | 15                                                              | --                                           | 2150                                              | 8.4                            | 26.0                        | 510                                                 |
| Q027 SMITH FISHERY            | 15                                                              | --                                           | 600                                               | 7.4                            | 23.0                        | 57                                                  |
| Q032 C J MOZINGO              | 15                                                              | --                                           | 1100                                              | 8.6                            | 23.5                        | 140                                                 |
| Q048 HUGH L STORK             | 15                                                              | --                                           | 960                                               | 7.4                            | 23.5                        | 140                                                 |
| Q111 COASTAL CHEMICAL CO      | 15                                                              | --                                           | 1080                                              | 8.3                            | 25.5                        | 160                                                 |
| Q137 STANDARD OIL CO          | 15                                                              | --                                           | 975                                               | 8.4                            | 25.5                        | 140                                                 |
| Q164 PASCAGOULA               | 15                                                              | --                                           | 1700                                              | 8.5                            | 26.5                        | 450                                                 |
| Q180 PASCAGOULA               | 15                                                              | --                                           | 1280                                              | 8.7                            | 26.5                        | 270                                                 |
| Q181 PASCAGOULA               | 15                                                              | --                                           | 1530                                              | 8.6                            | 27.0                        | 380                                                 |
| Q293 PASCAGOULA               | 15                                                              | --                                           | 890                                               | 7.8                            | 23.5                        | 120                                                 |
| Q417 MOSS POINT               | 15                                                              | --                                           | 1220                                              | 8.5                            | 27.5                        | 240                                                 |
| Q420 PASCAGOULA               | 15                                                              | --                                           | 880                                               | 8.0                            | 23.5                        | 130                                                 |
| Q421 COR-CHEM CORP            | 15                                                              | --                                           | 1050                                              | 8.4                            | 25.5                        | 160                                                 |

QUALITY OF GROUND WATER  
GROUND WATER DATA COLLECTION PROJECT  
WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| LOCAL<br>IDENT-<br>I-<br>FIER | STATION NUMBER  | GEO-<br>LOGIC<br>UNIT | DATE<br>OF<br>SAMPLE | TIME | SAMPLE<br>SOURCE | SAM-<br>PLING<br>CONDI-<br>TION | DEPTH<br>BELOW<br>LAND<br>SURFACE<br>(WATER<br>LEVEL)<br>(FEET) | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET) | ELEV.<br>OF LAND<br>SURFACE<br>DATUM<br>(FT.<br>ABOVE<br>NGVD) |
|-------------------------------|-----------------|-----------------------|----------------------|------|------------------|---------------------------------|-----------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------|
| ADAMS                         |                 |                       |                      |      |                  |                                 |                                                                 |                                         |                                                                |
| H030 BLAIN GRAVEL CO          | 313050091124001 | 122MOCN               | 07-29-85             | 1515 | 5                | 8.00                            | 185.00                                                          | 285                                     | 355.00                                                         |
| CARROLL                       |                 |                       |                      |      |                  |                                 |                                                                 |                                         |                                                                |
| C029 POOR HOUSE W A           | 333953089510201 | 124MLCXM              | 05-27-85             | 1330 | 1                | 8.00                            | 250.50                                                          | 858                                     | 400.00                                                         |
| CHICKASAW                     |                 |                       |                      |      |                  |                                 |                                                                 |                                         |                                                                |
| N026 WALLACE KIRBY DAIRY      | 334503089081501 | 211EUTW               | 05-29-85             | 1315 | 1                | 8.00                            | --                                                              | 1360                                    | 360.00                                                         |
| HINDS                         |                 |                       |                      |      |                  |                                 |                                                                 |                                         |                                                                |
| H185 BUCK WILEY               | 322053090093201 | 124CCKF               | 08-08-85             | 1500 | 30               | 8.00                            | --                                                              | 340                                     | 340.00                                                         |
| M118 DEVINEY                  | 321713090200801 | 124CCKF               | 11-07-84             | 1400 | 1                | 8.00                            | 244.40                                                          | 890                                     | 355.00                                                         |
| M119 DEVINEY                  | 321708090200301 | 123FRHL               | 11-07-84             | 1430 | 5                | 8.00                            | 44.80                                                           | 115                                     | 340.00                                                         |
| JACKSON                       |                 |                       |                      |      |                  |                                 |                                                                 |                                         |                                                                |
| N511 T MORETON                | 302503088481602 | 122PCGL               | 10-24-84             | 1015 | 5                | 4.00                            | -32.00                                                          | 1280                                    | 5.00                                                           |
| JASPER                        |                 |                       |                      |      |                  |                                 |                                                                 |                                         |                                                                |
| J039 W T RUFFIN               | 315743089172101 | 123MSPG               | 06-25-85             | 1000 | 1                | 8.00                            | 23.10                                                           | 100                                     | 495.00                                                         |
| P049 GULF OIL WATER SUPPLY    | 315236089025703 | 124SPRT               | 05-28-85             | 1330 | 1                | 8.00                            | --                                                              | 841                                     | 402.00                                                         |
| Q039 HEIDELBURG IND PARK      | 315319088583601 | 124CCKF               | 09-19-85             | 1150 | 26               | .10                             | --                                                              | 400                                     | 407.00                                                         |
| JONES                         |                 |                       |                      |      |                  |                                 |                                                                 |                                         |                                                                |
| C160 SHARON W A               | 314530089063101 | 124CCKF               | 04-08-85             | 1115 | 5                | 8.00                            | 68.20                                                           | 817                                     | 265.00                                                         |
| D117 BEAVER MEADOW W A        | 314835088585701 | 124CCKF               | 02-28-85             | 1430 | 21               | 8.00                            | --                                                              | 612                                     | 372.00                                                         |
| D127 SOUTHLAND REFINERY       | 314848089003901 | 124CCKF               | 02-20-85             | 1355 | 5                | 8.00                            | --                                                              | 600                                     | 305.00                                                         |
| D149 C MCDONALD               | 314842088571501 | 124CCKF               | 02-20-85             | 1250 | 5                | 8.00                            | 5.00                                                            | 518                                     | 330.00                                                         |
| D157 SANDERSVILLE             | 314824089004201 | 124CCKF               | 03-26-85             | 1200 | 1                | 8.00                            | 99.50                                                           | 592                                     | 270.00                                                         |
| D158 ROY WEST                 | 314310089014701 | 124CCKF               | 03-26-85             | 1600 | 1                | 8.00                            | --                                                              | 725                                     | 235.00                                                         |
| G063 MASONITE CORP            | 314022089073903 | 122CTHL               | 06-26-85             | 0950 | 1                | 8.00                            | 96.02                                                           | 230                                     | 235.00                                                         |
| G064 MASONITE CORP            | 314022089073904 | 124CCKF               | 06-26-85             | 1020 | 1                | 8.00                            | 89.20                                                           | 1060                                    | 235.00                                                         |
| G111 GLADE W A                | 313937089064301 | 122CTHL               | 09-19-85             | 1415 | 26               | .10                             | --                                                              | 490                                     | 250.00                                                         |
| J037 SO MS POWER ASSN         | 313135089175601 | 122CTHL               | 09-18-85             | 1242 | 26               | .10                             | 44.56                                                           | 263                                     | 205.00                                                         |
| K008 ELLISVILLE ST SCHOOL     | 313637089125601 | 122CTHL               | 09-18-85             | 1440 | 26               | .10                             | --                                                              | 548                                     | 220.00                                                         |
| N069 PINE BELT AIRPORT        | 312808089194901 | 122CTHL               | 09-18-85             | 1137 | 26               | .10                             | 149.59                                                          | 888                                     | 310.00                                                         |
| MADISON                       |                 |                       |                      |      |                  |                                 |                                                                 |                                         |                                                                |
| K020 KEARNY PARK LAND CO      | 323628090175301 | 124SPRT               | 07-30-85             | 1530 | 5                | 8.00                            | 132.00                                                          | 1380                                    | 220.00                                                         |
| NEWTON                        |                 |                       |                      |      |                  |                                 |                                                                 |                                         |                                                                |
| A034 SEBASTOPOL               | 323341089191101 | 124MLCXM              | 05-07-85             | 1500 | 1                | 8.00                            | 89.00                                                           | 525                                     | 387.00                                                         |



QUALITY OF GROUND WATER  
GROUND WATER DATA COLLECTION PROJECT--Continued

| LOCAL<br>IDENT-<br>I-<br>FIER | PUMP<br>OR FLOW<br>PERIOD<br>PRIOR<br>TO SAM-<br>PLING<br>(MIN) | FLOW<br>RATE,<br>INSTAN-<br>TANEOUS<br>(GPM) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CACO3) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) |
|-------------------------------|-----------------------------------------------------------------|----------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|----------------------------------------------|----------------------------------------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|
| ADAMS                         |                                                                 |                                              |                                                   |                                |                             |                                              |                                        |                                                        |                                              |                                                      |
| H030 BLAIN GRAVEL CO          | 1440                                                            | 350                                          | 240                                               | 5.8                            | 19.0                        | 5                                            | 110                                    | 0                                                      | 27                                           | 9.2                                                  |
| CARROLL                       |                                                                 |                                              |                                                   |                                |                             |                                              |                                        |                                                        |                                              |                                                      |
| C029 POOR HOUSE W A           | 300                                                             | 50                                           | 440                                               | 8.3                            | 23.0                        | 30                                           | 8                                      | 0                                                      | 2.2                                          | .55                                                  |
| CHICKASAW                     |                                                                 |                                              |                                                   |                                |                             |                                              |                                        |                                                        |                                              |                                                      |
| N026 WALLACE KIRBY DAIRY      | 60                                                              | 15                                           | 1450                                              | 7.6                            | 24.5                        | 10                                           | 250                                    | 0                                                      | 26                                           | 46                                                   |
| HINDS                         |                                                                 |                                              |                                                   |                                |                             |                                              |                                        |                                                        |                                              |                                                      |
| H185 BUCK WILEY               | 30                                                              | 25                                           | 420                                               | 7.5                            | 23.0                        | 5                                            | 47                                     | 0                                                      | 14                                           | 2.9                                                  |
| M118 DEVINEY                  | 90                                                              | 125                                          | 650                                               | 8.6                            | 27.5                        | 65                                           | 4                                      | 0                                                      | 1.1                                          | .40                                                  |
| M119 DEVINEY                  | 60                                                              | 20                                           | 46                                                | 5.5                            | 19.5                        | 1                                            | 6                                      | 0                                                      | 1.4                                          | .54                                                  |
| JACKSON                       |                                                                 |                                              |                                                   |                                |                             |                                              |                                        |                                                        |                                              |                                                      |
| N511 T MORETON                | 120                                                             | 100                                          | 1650                                              | --                             | 24.5                        | 5                                            | 21                                     | 0                                                      | 7.4                                          | .58                                                  |
| JASPER                        |                                                                 |                                              |                                                   |                                |                             |                                              |                                        |                                                        |                                              |                                                      |
| J039 W T RUFFIN               | 30                                                              | 28                                           | 305                                               | 7.4                            | 18.5                        | 20                                           | 150                                    | 5                                                      | 55                                           | 3.2                                                  |
| P049 GULF OIL WATER SUPPLY    | 30                                                              | 50                                           | 540                                               | 8.9                            | 23.5                        | 100                                          | 3                                      | 0                                                      | .92                                          | .28                                                  |
| Q039 HEIDELBURG IND PARK      | 30                                                              | 200                                          | 610                                               | 7.4                            | 21.5                        | 5                                            | 29                                     | 0                                                      | 7.0                                          | 2.7                                                  |
| JONES                         |                                                                 |                                              |                                                   |                                |                             |                                              |                                        |                                                        |                                              |                                                      |
| C160 SHARON W A               | 180                                                             | 37                                           | 890                                               | 8.5                            | 25.5                        | 80                                           | 6                                      | 0                                                      | 1.6                                          | .55                                                  |
| D117 BEAVER MEADOW W A        | 30                                                              | 160                                          | 840                                               | 8.6                            | 24.0                        | 50                                           | 9                                      | 0                                                      | 2.1                                          | .89                                                  |
| D127 SOUTHLAND REFINERY       | 1440                                                            | 250                                          | 840                                               | 8.8                            | 24.5                        | 40                                           | 6                                      | 0                                                      | 1.4                                          | .53                                                  |
| D149 C MCDONALD               | 30                                                              | 10                                           | 810                                               | 8.8                            | 21.5                        | 50                                           | 8                                      | 0                                                      | 2.0                                          | .80                                                  |
| D157 SANDERSVILLE             | 200                                                             | 20                                           | 850                                               | 8.7                            | 24.0                        | 95                                           | 6                                      | 0                                                      | 1.6                                          | .59                                                  |
| D158 ROY WEST                 | 15                                                              | 65                                           | 1280                                              | 8.8                            | 25.0                        | 150                                          | 6                                      | 0                                                      | 1.3                                          | .61                                                  |
| G063 MASONITE CORP            | 30                                                              | 400                                          | 122                                               | 6.2                            | 20.0                        | 5                                            | 27                                     | 0                                                      | 6.7                                          | 2.6                                                  |
| G064 MASONITE CORP            | 30                                                              | 400                                          | 1320                                              | 8.5                            | 28.0                        | 400                                          | 8                                      | 0                                                      | 1.9                                          | .79                                                  |
| G111 GLADE W A                | 30                                                              | 205                                          | 238                                               | 7.0                            | 22.5                        | 5                                            | 5                                      | 0                                                      | 1.3                                          | .40                                                  |
| J037 SO MS POWER ASSN         | 30                                                              | 200                                          | 38                                                | 5.9                            | 20.5                        | <1                                           | 7                                      | 2                                                      | 1.6                                          | .69                                                  |
| K008 ELLISVILLE ST SCHOOL     | 30                                                              | 400                                          | 240                                               | 7.5                            | 22.0                        | <1                                           | 13                                     | 0                                                      | 4.4                                          | .55                                                  |
| N069 PINE BELT AIRPORT        | 30                                                              | 500                                          | 220                                               | 7.4                            | 24.0                        | <1                                           | 6                                      | 0                                                      | 1.6                                          | .46                                                  |
| MADISON                       |                                                                 |                                              |                                                   |                                |                             |                                              |                                        |                                                        |                                              |                                                      |
| K020 KEARNY PARK LAND CO      | 60                                                              | 160                                          | 300                                               | 7.2                            | 30.0                        | 10                                           | 28                                     | 0                                                      | 9.9                                          | .72                                                  |
| NEWTON                        |                                                                 |                                              |                                                   |                                |                             |                                              |                                        |                                                        |                                              |                                                      |
| A034 SEBASTOPOL               | 120                                                             | 465                                          | 310                                               | 8.3                            | 22.0                        | 5                                            | 6                                      | 0                                                      | 1.6                                          | .41                                                  |

QUALITY OF GROUND WATER  
GROUND WATER DATA COLLECTION PROJECT--Continued

| LOCAL<br>IDENT-<br>I-<br>FIER | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LINITY<br>LAB<br>(MG/L<br>AS<br>CACO3) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) |
|-------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|
| ADAMS                         |                                              |                   |                                         |                                                     |                                                 |                                               |                                                     |                                                    |                                                   |                                                                    |
| H030 BLAIN GRAVEL CO          | 9.0                                          | 15                | .4                                      | 2.1                                                 | 114                                             | 5.8                                           | 4.8                                                 | .20                                                | 25                                                | 148                                                                |
| CARROLL                       |                                              |                   |                                         |                                                     |                                                 |                                               |                                                     |                                                    |                                                   |                                                                    |
| C029 POOR HOUSE W A           | 110                                          | 96                | 18                                      | 1.3                                                 | 231                                             | .9                                            | 14                                                  | .20                                                | 14                                                | 303                                                                |
| CHICKASAW                     |                                              |                   |                                         |                                                     |                                                 |                                               |                                                     |                                                    |                                                   |                                                                    |
| N026 WALLACE KIRBY DAIRY      | 210                                          | 64                | 6                                       | 4.2                                                 | 292                                             | 240                                           | 130                                                 | 1.3                                                | 16                                                | 917                                                                |
| HINDS                         |                                              |                   |                                         |                                                     |                                                 |                                               |                                                     |                                                    |                                                   |                                                                    |
| H185 BUCK WILEY               | 80                                           | 78                | 5                                       | 1.7                                                 | 185                                             | 13                                            | 15                                                  | .40                                                | 18                                                | 266                                                                |
| M118 DEVINEY                  | 150                                          | 98                | 32                                      | 1.0                                                 | 280                                             | 32                                            | 21                                                  | .60                                                | 16                                                | 436                                                                |
| M119 DEVINEY                  | 6.0                                          | 65                | 1                                       | 1.0                                                 | 14                                              | .9                                            | 5.3                                                 | <.10                                               | 17                                                | 40                                                                 |
| JACKSON                       |                                              |                   |                                         |                                                     |                                                 |                                               |                                                     |                                                    |                                                   |                                                                    |
| N511 T MORETON                | 330                                          | 97                | 33                                      | 1.9                                                 | 240                                             | .8                                            | 380                                                 | .40                                                | 16                                                | 921                                                                |
| JASPER                        |                                              |                   |                                         |                                                     |                                                 |                                               |                                                     |                                                    |                                                   |                                                                    |
| J039 W T RUFFIN               | 2.1                                          | 3                 | .0                                      | .60                                                 | 146                                             | 9.7                                           | 2.2                                                 | <.10                                               | 18                                                | 188                                                                |
| P049 GULF OIL WATER SUPPLY    | 130                                          | 98                | 32                                      | 1.5                                                 | 280                                             | 7.9                                           | 3.5                                                 | .40                                                | 15                                                | 343                                                                |
| Q039 HEIDELBURG IND PARK      | 140                                          | 90                | 12                                      | 4.0                                                 | 232                                             | 55                                            | 29                                                  | .20                                                | 15                                                | 393                                                                |
| JONES                         |                                              |                   |                                         |                                                     |                                                 |                                               |                                                     |                                                    |                                                   |                                                                    |
| C160 SHARON W A               | 210                                          | 98                | 38                                      | 3.0                                                 | 398                                             | 47                                            | 21                                                  | .60                                                | 13                                                | 487                                                                |
| D117 BEAYER MEADOW W A        | 210                                          | 97                | 32                                      | 3.0                                                 | 368                                             | 48                                            | 25                                                  | .80                                                | 12                                                | 490                                                                |
| D127 SOUTHLAND REFINERY       | 200                                          | 98                | 38                                      | 3.1                                                 | 366                                             | 46                                            | 25                                                  | .80                                                | 13                                                | 507                                                                |
| D149 C MCDONALD               | 200                                          | 97                | 31                                      | 3.4                                                 | 358                                             | 39                                            | 28                                                  | .60                                                | 12                                                | 513                                                                |
| D157 SANDERSVILLE             | 210                                          | 98                | 37                                      | 2.5                                                 | 367                                             | 50                                            | 25                                                  | .60                                                | 12                                                | 498                                                                |
| D158 ROY WEST                 | 310                                          | 99                | 58                                      | 2.9                                                 | 579                                             | 49                                            | 25                                                  | 1.2                                                | 13                                                | 743                                                                |
| G063 MASONITE CORP            | 11                                           | 44                | .9                                      | 1.9                                                 | 41                                              | 13                                            | 3.0                                                 | <.10                                               | 21                                                | 82                                                                 |
| G064 MASONITE CORP            | 330                                          | 98                | 52                                      | 3.3                                                 | 673                                             | 48                                            | 22                                                  | 1.4                                                | 15                                                | 859                                                                |
| G111 GLADE W A                | 52                                           | 94                | 11                                      | 1.4                                                 | 104                                             | 10                                            | 4.3                                                 | .10                                                | 54                                                | 182                                                                |
| J037 SO MS POWER ASSN         | 2.6                                          | 37                | .4                                      | 2.1                                                 | 5.0                                             | 7.4                                           | 3.3                                                 | <.10                                               | 29                                                | 54                                                                 |
| K008 ELLISVILLE ST SCHOOL     | 51                                           | 88                | 6                                       | 1.5                                                 | 110                                             | 11                                            | 3.5                                                 | .20                                                | 46                                                | 180                                                                |
| N069 PINE BELT AIRPORT        | 50                                           | 93                | 9                                       | 1.5                                                 | 107                                             | 9.6                                           | 3.6                                                 | .10                                                | 49                                                | 177                                                                |
| MADISON                       |                                              |                   |                                         |                                                     |                                                 |                                               |                                                     |                                                    |                                                   |                                                                    |
| K020 KEARNY PARK LAND CO      | 59                                           | 81                | 5                                       | 1.6                                                 | 144                                             | 10                                            | 3.3                                                 | <.10                                               | 58                                                | 236                                                                |
| NEWTON                        |                                              |                   |                                         |                                                     |                                                 |                                               |                                                     |                                                    |                                                   |                                                                    |
| A034 SEBASTOPOL               | 64                                           | 95                | 12                                      | 1.8                                                 | 145                                             | 8.4                                           | 2.5                                                 | <.10                                               | 15                                                | 179                                                                |

QUALITY OF GROUND WATER  
GROUND WATER DATA COLLECTION PROJECT--Continued

| LOCAL<br>IDENT-<br>I-<br>FIER | SOLIDS,<br>SUM OF<br>CONSTITUENTS,<br>DISSOLVED<br>(MG/L) | IRON,<br>DISSOLVED<br>(UG/L<br>AS FE) | MANGANESE,<br>DISSOLVED<br>(UG/L<br>AS MN) |
|-------------------------------|-----------------------------------------------------------|---------------------------------------|--------------------------------------------|
| ADAMS                         |                                                           |                                       |                                            |
| H030 BLAIN GRAVEL CO          | 150                                                       | 20                                    | 1                                          |
| CARROLL                       |                                                           |                                       |                                            |
| C029 POOR HOUSE W A           | 280                                                       | 200                                   | 27                                         |
| CHICKASAW                     |                                                           |                                       |                                            |
| N026 WALLACE KIRBY DAIRY      | 850                                                       | 3400                                  | 2900                                       |
| HINDS                         |                                                           |                                       |                                            |
| H185 BUCK WILEY               | 260                                                       | 140                                   | 31                                         |
| M118 DEVINEY                  | 390                                                       | 210                                   | 10                                         |
| M119 DEVINEY                  | 41                                                        | 250                                   | 7                                          |
| JACKSON                       |                                                           |                                       |                                            |
| N511 T MORETON                | 880                                                       | 13                                    | 13                                         |
| JASPER                        |                                                           |                                       |                                            |
| J039 W T RUFFIN               | 180                                                       | 380                                   | 130                                        |
| P049 GULF OIL WATER SUPPLY    | 330                                                       | 140                                   | 2                                          |
| Q039 HEIDELBURG IND PARK      | 390                                                       | 12                                    | 4                                          |
| JONES                         |                                                           |                                       |                                            |
| C160 SHARON W A               | 540                                                       | 660                                   | 24                                         |
| D117 BEAVER MEADOW W A        | 520                                                       | 73                                    | 6                                          |
| D127 SOUTHLAND REFINERY       | 510                                                       | 30                                    | 2                                          |
| D149 C MCDONALD               | 500                                                       | 22                                    | 3                                          |
| D157 SANDERSVILLE             | 520                                                       | 75                                    | 2                                          |
| D158 ROY WEST                 | 750                                                       | 29                                    | 1                                          |
| G063 MASONITE CORP            | 86                                                        | 1700                                  | 70                                         |
| G064 MASONITE CORP            | 830                                                       | 42                                    | 3                                          |
| G111 GLADE W A                | 190                                                       | 41                                    | 4                                          |
| J037 SO MS POWER ASSN         | 50                                                        | 7                                     | 8                                          |
| K008 ELLISVILLE ST SCHOOL     | 180                                                       | 22                                    | 9                                          |
| N069 PINE BELT AIRPORT        | 180                                                       | 16                                    | 6                                          |
| MADISON                       |                                                           |                                       |                                            |
| K020 KEARNY PARK LAND CO      | 230                                                       | 600                                   | 18                                         |
| NEWTON                        |                                                           |                                       |                                            |
| A034 SEBASTOPOL               | 180                                                       | 63                                    | 5                                          |

QUALITY OF GROUND WATER  
GROUND WATER DATA COLLECTION PROJECT--Continued

| LOCAL<br>IDENT-<br>I-<br>FIER | STATION         | NUMBER | GEO-<br>LOGIC<br>UNIT | DATE<br>OF<br>SAMPLE | TIME | SAMPLE<br>SOURCE | SAM-<br>PLING<br>CONDI-<br>TION | DEPTH<br>BELOW<br>LAND<br>SURFACE<br>(WATER<br>LEVEL)<br>(FEET) | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET) | ELEV.<br>OF LAND<br>SURFACE<br>DATUM<br>(FT.<br>ABOVE<br>NGVD) |
|-------------------------------|-----------------|--------|-----------------------|----------------------|------|------------------|---------------------------------|-----------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------|
| NOXUBEE                       |                 |        |                       |                      |      |                  |                                 |                                                                 |                                         |                                                                |
| Q018 SHUQUALAK-BUTLER W A     | 325927088442701 |        | 211COKR               | 01-29-85             | 1400 | 5                | 8.00                            | 305.00                                                          | 2670                                    | 485.00                                                         |
| RANKIN                        |                 |        |                       |                      |      |                  |                                 |                                                                 |                                         |                                                                |
| R043 SOUTHEAST RANKIN W A     | 320935089554601 |        | 124CCKF               | 05-03-85             | 1300 | 1                | 8.00                            | 245.70                                                          | 980                                     | 405.00                                                         |
| SMITH                         |                 |        |                       |                      |      |                  |                                 |                                                                 |                                         |                                                                |
| E040 WHITE OAK W A            | 320538089380501 |        | 124SPRT               | 03-11-85             | 1530 | 1                | 8.00                            | 402.10                                                          | 1390                                    | 595.00                                                         |
| WINSTON                       |                 |        |                       |                      |      |                  |                                 |                                                                 |                                         |                                                                |
| L011 BOND W A TEST WELL       | 330540088574701 |        | 124WLCXL              | 05-06-85             | 1230 | 1                | 8.00                            | 118.75                                                          | 215                                     | 565.00                                                         |

| LOCAL<br>IDENT-<br>I-<br>FIER | PUMP<br>OR FLOW<br>PERIOD<br>PRIOR<br>TO SAM-<br>PLING<br>(MIN) | FLOW<br>RATE,<br>INSTAN-<br>TANEOUS<br>(GPM) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COBAL T<br>UNITS) | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CACO3) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) |
|-------------------------------|-----------------------------------------------------------------|----------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|-----------------------------------------------|----------------------------------------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|
| NOXUBEE                       |                                                                 |                                              |                                                   |                                |                             |                                               |                                        |                                                        |                                              |                                                      |
| Q018 SHUQUALAK-BUTLER W A     | 240                                                             | 128                                          | 2000                                              | 7.6                            | 36.5                        | <1                                            | 91                                     | 0                                                      | 29                                           | 4.4                                                  |
| RANKIN                        |                                                                 |                                              |                                                   |                                |                             |                                               |                                        |                                                        |                                              |                                                      |
| R043 SOUTHEAST RANKIN W A     | 180                                                             | 250                                          | 520                                               | 8.8                            | 27.5                        | 45                                            | 3                                      | 0                                                      | 1.0                                          | .23                                                  |
| SMITH                         |                                                                 |                                              |                                                   |                                |                             |                                               |                                        |                                                        |                                              |                                                      |
| E040 WHITE OAK W A            | 120                                                             | 203                                          | 325                                               | 8.2                            | 30.5                        | 30                                            | 8                                      | 0                                                      | 2.5                                          | .36                                                  |
| WINSTON                       |                                                                 |                                              |                                                   |                                |                             |                                               |                                        |                                                        |                                              |                                                      |
| L011 BOND W A TEST WELL       | 4360                                                            | 60                                           | 40                                                | 5.6                            | 19.5                        | <1                                            | 9                                      | 0                                                      | 1.9                                          | .93                                                  |

QUALITY OF GROUND WATER

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GROUND WATER DATA COLLECTION PROJECT--Continued

| LOCAL<br>IDENT-<br>I-<br>FIER | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LINEITY<br>LAB<br>(MG/L<br>AS<br>CAC03) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS S04) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SI02) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) |
|-------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|--------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|
| NOXUBEE                       |                                              |                   |                                         |                                                     |                                                  |                                               |                                                     |                                                    |                                                   |                                                                    |
| Q018 SHUQUALAK-BUTLER W A     | 390                                          | 90                | 19                                      | 6.3                                                 | 221                                              | .2                                            | 530                                                 | 1.6                                                | 15                                                | 1100                                                               |
| RANKIN                        |                                              |                   |                                         |                                                     |                                                  |                                               |                                                     |                                                    |                                                   |                                                                    |
| R043 SOUTHEAST RANKIN W A     | 120                                          | 98                | 29                                      | 1.0                                                 | 224                                              | 23                                            | 15                                                  | .50                                                | 14                                                | 282                                                                |
| SMITH                         |                                              |                   |                                         |                                                     |                                                  |                                               |                                                     |                                                    |                                                   |                                                                    |
| E040 WHITE OAK W A            | 76                                           | 95                | 12                                      | 1.1                                                 | 170                                              | 8.3                                           | 3.5                                                 | .10                                                | 34                                                | 225                                                                |
| WINSTON                       |                                              |                   |                                         |                                                     |                                                  |                                               |                                                     |                                                    |                                                   |                                                                    |
| L011 BOND W A TEST WELL       | 2.4                                          | 36                | .4                                      | .70                                                 | 14                                               | .8                                            | 2.7                                                 | <.10                                               | 16                                                | 22                                                                 |

| LOCAL<br>IDENT-<br>I-<br>FIER | SOLIDS,<br>SUM OF<br>CONSTI-<br>TUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |
|-------------------------------|---------------------------------------------------------------------|--------------------------------------------|------------------------------------------------------|
| NOXUBEE                       |                                                                     |                                            |                                                      |
| Q018 SHUQUALAK-BUTLER W A     | 1100                                                                | 960                                        | 64                                                   |
| RANKIN                        |                                                                     |                                            |                                                      |
| R043 SOUTHEAST RANKIN W A     | 310                                                                 | 39                                         | 4                                                    |
| SMITH                         |                                                                     |                                            |                                                      |
| E040 WHITE OAK W A            | 230                                                                 | 150                                        | 10                                                   |
| WINSTON                       |                                                                     |                                            |                                                      |
| L011 BOND W A TEST WELL       | 34                                                                  | 74                                         | 2                                                    |



QUALITY OF GROUND WATER  
GROUND WATER DATA COLLECTION PROJECT--Continued

| LOCAL<br>IDENT-<br>I-<br>FIER | STATION         | NUMBER | GEO-<br>LOGIC<br>UNIT | DATE<br>OF<br>SAMPLE | TIME | SAMPLE<br>SOURCE | SAM-<br>PLING<br>CONDI-<br>TION | DEPTH<br>BELOW<br>LAND<br>SURFACE<br>(WATER<br>LEVEL)<br>(FEET) | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET) | DEPTH<br>TO BOT-<br>TOM OF<br>SAMPLE<br>INTER-<br>VAL<br>(FT) |
|-------------------------------|-----------------|--------|-----------------------|----------------------|------|------------------|---------------------------------|-----------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------------|
| JASPER                        |                 |        |                       |                      |      |                  |                                 |                                                                 |                                         |                                                               |
| P047 GULF OIL TEST 1          | 315236089025701 |        | 124 WLCXL             | 05-23-85             | 1500 | 1                | 8.00                            | 105.00                                                          | 2770                                    | 2770                                                          |
| P048 GULF OIL TEST 2          | 315236089025702 |        | 124 WLCXL             | 05-28-85             | 1230 | 5                | 8.00                            | --                                                              | 2630                                    | 2640                                                          |
| Q047 MS NAT RES TEST 2        | 315313088583302 |        | 124 WLCXL             | 02-20-85             | 1520 | 1                | 8.00                            | 77.40                                                           | 2680                                    | 2680                                                          |
| Q048 MS NAT RES TEST 3        | 315313088583303 |        | 124 MUWX              | 02-23-85             | 1000 | 1                | 8.00                            | 111.60                                                          | 1210                                    | 1210                                                          |
| Q049 MS NAT RES TEST 4        | 315313088583304 |        | 124 SPRT              | 02-28-85             | 1200 | 1                | 8.00                            | 135.60                                                          | 720                                     | 730                                                           |

| LOCAL<br>IDENT-<br>I-<br>FIER | DEPTH<br>TO TOP<br>OF<br>SAMPLE<br>INTER-<br>VAL<br>(FT) | ELEV.<br>OF LAND<br>SURFACE<br>DATUM<br>(FT.<br>ABOVE<br>NGVD) | PUMP<br>OR FLOW<br>PERIOD<br>PRIOR<br>TO SAM-<br>PLING<br>(MIN) | FLOW<br>RATE,<br>INSTAN-<br>TANEOUS<br>(GPM) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | DENSITY<br>(GM/ML<br>AT<br>20 C) | HARD-<br>NESS<br>(MG/L<br>AS<br>CAC03) |
|-------------------------------|----------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|----------------------------------------------|----------------------------------|----------------------------------------|
| JASPER                        |                                                          |                                                                |                                                                 |                                              |                                                   |                                |                             |                                              |                                  |                                        |
| P047 GULF OIL TEST 1          | 2730                                                     | 402.00                                                         | 900                                                             | 60                                           | 7500                                              | 7.8                            | 38.0                        | 25                                           | 1.001                            | 53                                     |
| P048 GULF OIL TEST 2          | 2600                                                     | 402.00                                                         | 900                                                             | 40                                           | 4010                                              | 8.5                            | 36.0                        | 40                                           | .999                             | 24                                     |
| Q047 MS NAT RES TEST 2        | 2640                                                     | 375.00                                                         | --                                                              | 50                                           | 1040                                              | 8.9                            | 38.5                        | 30                                           | 1.000                            | 6                                      |
| Q048 MS NAT RES TEST 3        | 1170                                                     | 375.00                                                         | 1260                                                            | 75                                           | 1160                                              | 8.7                            | 28.5                        | <1                                           | 1.000                            | 5                                      |
| Q049 MS NAT RES TEST 4        | 690                                                      | 375.00                                                         | 1320                                                            | 75                                           | 590                                               | 9.0                            | 25.0                        | 100                                          | .999                             | 3                                      |

| LOCAL<br>IDENT-<br>I-<br>FIER | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>AS CAC03) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LINITY<br>LAB<br>(MG/L<br>AS<br>CAC03) | SULFIDE<br>TOTAL<br>(MG/L<br>AS S) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) |
|-------------------------------|-----------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|-------------------------------------------------|------------------------------------|-----------------------------------------------|
| JASPER                        |                                                           |                                              |                                                      |                                              |                   |                                         |                                                     |                                                 |                                    |                                               |
| P047 GULF OIL TEST 1          | --                                                        | 12                                           | 5.1                                                  | 1500                                         | 98                | 94                                      | 6.3                                                 | --                                              | --                                 | 4.2                                           |
| P048 GULF OIL TEST 2          | 0                                                         | 6.9                                          | 1.5                                                  | 940                                          | 99                | 88                                      | 3.7                                                 | 734                                             | --                                 | 2.1                                           |
| Q047 MS NAT RES TEST 2        | 0                                                         | 1.8                                          | .44                                                  | 230                                          | 98                | 41                                      | 1.9                                                 | 299                                             | <.5                                | 4.6                                           |
| Q048 MS NAT RES TEST 3        | 0                                                         | 1.2                                          | .44                                                  | 300                                          | 99                | 61                                      | 2.2                                                 | 671                                             | <.5                                | 4.9                                           |
| Q049 MS NAT RES TEST 4        | 0                                                         | .78                                          | .27                                                  | 150                                          | 98                | 39                                      | 2.0                                                 | 315                                             | <.5                                | 8.2                                           |

## GROUND WATER DATA COLLECTION PROJECT--Continued

| LOCAL<br>IDENT-<br>I-<br>FIER | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | BROMIDE<br>DIS-<br>SOLVED<br>(MG/L<br>AS BR) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SIO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTI-<br>TUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) |
|-------------------------------|-----------------------------------------------------|----------------------------------------------------|----------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|----------------------------------------------|----------------------------------------------|
| JASPER                        |                                                     |                                                    |                                              |                                                   |                                                                    |                                                                     |                                                               |                                                      |                                              |                                              |
| P047 GULF OIL TEST 1          | 2300                                                | 2.3                                                | 4.4                                          | 17                                                | 4310                                                               | --                                                                  | <.10                                                          | .130                                                 | 1                                            | 200                                          |
| P048 GULF OIL TEST 2          | 940                                                 | 2.1                                                | 2.0                                          | 16                                                | 2400                                                               | 2400                                                                | <.10                                                          | .320                                                 | 1                                            | 100                                          |
| Q047 MS NAT RES TEST 2        | 150                                                 | .70                                                | .62                                          | 18                                                | 621                                                                | 590                                                                 | <.10                                                          | .390                                                 | <1                                           | 27                                           |
| Q048 MS NAT RES TEST 3        | 4.7                                                 | 1.5                                                | <.01                                         | 13                                                | 713                                                                | 730                                                                 | <.10                                                          | .990                                                 | <1                                           | 13                                           |
| Q049 MS NAT RES TEST 4        | 3.6                                                 | .40                                                | <.01                                         | 16                                                | 359                                                                | 370                                                                 | <.10                                                          | .240                                                 | <1                                           | 11                                           |

| LOCAL<br>IDENT-<br>I-<br>FIER | BORON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS B) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | COBALT,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CO) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) | LITHIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS LI) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) |
|-------------------------------|--------------------------------------------|----------------------------------------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|--------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|
| JASPER                        |                                            |                                              |                                                     |                                              |                                              |                                            |                                            |                                              |                                                      |                                              |
| P047 GULF OIL TEST 1          | 4200                                       | 1                                            | 1                                                   | <1                                           | 1                                            | 20                                         | 1                                          | 100                                          | 10                                                   | 1.4                                          |
| P048 GULF OIL TEST 2          | 3600                                       | 1                                            | 3                                                   | <1                                           | 1                                            | 30                                         | 1                                          | 50                                           | <10                                                  | .3                                           |
| Q047 MS NAT RES TEST 2        | 890                                        | <1                                           | 3                                                   | 2                                            | 1                                            | 93                                         | <1                                         | 8                                            | 6                                                    | .4                                           |
| Q048 MS NAT RES TEST 3        | 1300                                       | <1                                           | 3                                                   | 3                                            | <1                                           | 170                                        | <1                                         | 31                                           | 5                                                    | .2                                           |
| Q049 MS NAT RES TEST 4        | 330                                        | <1                                           | <1                                                  | 3                                            | <1                                           | 39                                         | <1                                         | 10                                           | <1                                                   | <.1                                          |

| LOCAL<br>IDENT-<br>I-<br>FIER | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE) | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) | GROSS<br>ALPHA,<br>DIS-<br>SOLVED<br>(UG/L<br>AS<br>U-NAT) | GROSS<br>BETA,<br>DIS-<br>SOLVED<br>(PCI/L<br>AS<br>CS-137) | GROSS<br>BETA,<br>DIS-<br>SOLVED<br>(PCI/L<br>AS<br>YT-90) |
|-------------------------------|----------------------------------------------|-----------------------------------------------------|------------------------------------------------------|--------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------|
| JASPER                        |                                              |                                                     |                                                      |                                            |                                                            |                                                             |                                                            |
| P047 GULF OIL TEST 1          | 1                                            | <1                                                  | 1300                                                 | <10                                        | --                                                         | --                                                          | --                                                         |
| P048 GULF OIL TEST 2          | <1                                           | <1                                                  | 430                                                  | 20                                         | --                                                         | --                                                          | --                                                         |
| Q047 MS NAT RES TEST 2        | 1                                            | <1                                                  | 96                                                   | <3                                         | <20                                                        | <14                                                         | <12                                                        |
| Q048 MS NAT RES TEST 3        | <1                                           | <1                                                  | 44                                                   | <3                                         | <11                                                        | <7.2                                                        | <6.2                                                       |
| Q049 MS NAT RES TEST 4        | <1                                           | <1                                                  | 18                                                   | 5                                          | <11                                                        | <11                                                         | <9.6                                                       |

QUALITY OF GROUND WATER  
RADIOISOTOPES IN GROUND WATER PROJECT  
WATER QUALITY DATA, JUNE TO JULY 1985

| LOCAL<br>IDENT-<br>I-<br>FIER | STATION NUMBER  | GEO-<br>LOGIC<br>UNIT | DATE<br>OF<br>SAMPLE | TIME | SAMPLE<br>SOURCE | SAM-<br>PLING<br>CONDI-<br>TION | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET) | ELEV.<br>OF LAND<br>SURFACE<br>DATUM<br>(FT.<br>ABOVE<br>NGVD) | PH<br>(STAND-<br>ARD<br>UNITS) |
|-------------------------------|-----------------|-----------------------|----------------------|------|------------------|---------------------------------|-----------------------------------------|----------------------------------------------------------------|--------------------------------|
| ATTALA                        |                 |                       |                      |      |                  |                                 |                                         |                                                                |                                |
| H025 ETHEL RURAL W A          | 330703089282701 | 124 WLCXL             | 07-23-85             | 0800 | 8                | .10                             | 951                                     | 495.00                                                         | --                             |
| J008 MCCOOL                   | 331130089201501 | 124 WLCXL             | 07-23-85             | 1200 | 1                | .10                             | 760                                     | 477.00                                                         | 7.8                            |
| T007 CONEHOMA W A             | 325822089303801 | 124 WLCXL             | 07-27-85             | 1550 | 8                | .02                             | 1250                                    | 500.00                                                         | 7.6                            |
| CHOCTAW                       |                 |                       |                      |      |                  |                                 |                                         |                                                                |                                |
| D001 NATCHEZ TRACE PK         | 332504089160401 | 124 WLCXL             | 07-24-85             | 0815 | 8                | .03                             | 247                                     | 397.00                                                         | --                             |
| D023 REFORM W A               | 332251089114101 | 124 WLCXL             | 07-25-85             | 0900 | 1                | .10                             | 386                                     | 550.00                                                         | --                             |
| F003 FRENCH CAMP W A          | 331715089234801 | 124 WLCXL             | 07-23-85             | 1000 | 8                | .10                             | 690                                     | 460.00                                                         | --                             |
| CLARKE                        |                 |                       |                      |      |                  |                                 |                                         |                                                                |                                |
| R020 SHUBUTA                  | 315154088413901 | 124 WLCXL             | 06-21-85             | 0930 | --               | --                              | 2280                                    | 192.00                                                         | 8.4                            |
| HOLMES                        |                 |                       |                      |      |                  |                                 |                                         |                                                                |                                |
| F017 WEST                     | 331138089463901 | 124 WLCXL             | 07-24-85             | 1650 | 1                | .10                             | 1330                                    | 271.00                                                         | --                             |
| JASPER                        |                 |                       |                      |      |                  |                                 |                                         |                                                                |                                |
| D031 ROSE HILL W A            | 320841088583801 | 124 WLCXL             | 06-18-85             | 0900 | --               | --                              | 1890                                    | 430.00                                                         | 8.1                            |
| KEMPER                        |                 |                       |                      |      |                  |                                 |                                         |                                                                |                                |
| A017 KEMPER W A               | 325223088494101 | 124 WLCXL             | 07-26-85             | 0800 | 1                | .10                             | 280                                     | 520.00                                                         | --                             |
| L014 N W KEMPER W A           | 324337088504501 | 124 WLCXL             | 07-23-85             | 1200 | 8                | .10                             | 601                                     | 625.00                                                         | --                             |
| N016 KIPLING W A              | 324051088402601 | 124 WLCXL             | 07-25-85             | 1230 | 1                | .10                             | 178                                     | 360.00                                                         | 5.1                            |
| R023 THORNTON                 | 323555088453001 | 124 WLCXL             | 07-25-85             | 1540 | 1                | .10                             | 300                                     | 490.00                                                         | --                             |
| LAUDERDALE                    |                 |                       |                      |      |                  |                                 |                                         |                                                                |                                |
| J109 TOOMSUBA W A #2          | 322544088303701 | 124 WLCXL             | 07-26-85             | 0830 | 1                | .10                             | 280                                     | 345.00                                                         | 7.0                            |
| LEAKE                         |                 |                       |                      |      |                  |                                 |                                         |                                                                |                                |
| F006 R&R PROCESSING           | 324930089321301 | 124 WLCXL             | 07-11-85             | 1150 | 1                | .10                             | 1650                                    | 482.00                                                         | --                             |
| H006 EDINBURG W A             | 324756089205501 | 124 WLCXM             | 07-11-85             | 0615 | 1                | .10                             | 849                                     | 385.00                                                         | --                             |
| Q032 FREENEY W A              | 323942088230601 | 124 MUWX              | 07-11-85             | 0845 | 1                | .10                             | 1430                                    | 380.00                                                         | --                             |
| MONTGOMERY                    |                 |                       |                      |      |                  |                                 |                                         |                                                                |                                |
| D009 ESK-ROSE HILL W A        | 333627089420001 | 124 WLCXM             | 07-29-85             | 1630 | 8                | .10                             | 530                                     | 280.00                                                         | --                             |
| D013 DUCK HILL                | 333731089422201 | 124 WLCXM             | 07-28-85             | 0810 | 1                | .10                             | 617                                     | 270.00                                                         | 8.0                            |
| K019 KILMICHEAL               | 332618089335802 | 124 WLCXM             | 07-24-85             | 1200 | 1                | .10                             | 370                                     | 511.00                                                         | --                             |
| L002 STEWART W A              | 332707089260701 | 124 WLCXL             | 07-28-85             | 1650 | 1                | .10                             | 580                                     | 360.00                                                         | --                             |
| M001 POPLAR CREEK W A         | 332114089332301 | 124 WLCXL             | 07-27-85             | 1930 | 8                | .10                             | 947                                     | 409.00                                                         | --                             |

## RADIOISOTOPES IN GROUND WATER PROJECT--Continued

| LOCAL<br>IDENT-<br>I-<br>FIER | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CACO3) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO |
|-------------------------------|-----------------------------|----------------------------------------------|-------------------------------------|----------------------------------------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|
| ATTALA                        |                             |                                              |                                     |                                        |                                                        |                                              |                                                      |                                              |                   |                                         |
| H025 ETHEL RURAL W A          | --                          | --                                           | <.3                                 | 30                                     | 0                                                      | 10                                           | 1.1                                                  | 49                                           | 77                | 4                                       |
| J008 MCCOOL                   | --                          | --                                           | --                                  | 17                                     | 0                                                      | 5.0                                          | 1.0                                                  | 54                                           | 86                | 6                                       |
| T007 CONEHOMA W A             | 27.5                        | 3                                            | --                                  | 20                                     | 0                                                      | 6.4                                          | 1.0                                                  | 52                                           | 84                | 5                                       |
| CHOCTAW                       |                             |                                              |                                     |                                        |                                                        |                                              |                                                      |                                              |                   |                                         |
| D001 NATCHEZ TRACE PK         | 20.0                        | --                                           | <.3                                 | 22                                     | 0                                                      | 6.1                                          | 1.6                                                  | 49                                           | 81                | 5                                       |
| D023 REFORM W A               | 20.5                        | 3                                            | <.3                                 | 19                                     | 0                                                      | 4.8                                          | 1.6                                                  | 40                                           | 81                | 4                                       |
| F003 FRENCH CAMP W A          | --                          | --                                           | --                                  | 20                                     | 0                                                      | 6.5                                          | .90                                                  | 55                                           | 85                | 6                                       |
| CLARKE                        |                             |                                              |                                     |                                        |                                                        |                                              |                                                      |                                              |                   |                                         |
| R020 SHUBUTA                  | 37.0                        | --                                           | <.3                                 | 5                                      | 0                                                      | 1.5                                          | .20                                                  | 170                                          | 98                | 36                                      |
| HOLMES                        |                             |                                              |                                     |                                        |                                                        |                                              |                                                      |                                              |                   |                                         |
| F017 WEST                     | 28.5                        | --                                           | <.2                                 | 3                                      | 0                                                      | 1.0                                          | .20                                                  | 170                                          | 99                | 42                                      |
| JASPER                        |                             |                                              |                                     |                                        |                                                        |                                              |                                                      |                                              |                   |                                         |
| D031 ROSE HILL W A            | 32.0                        | --                                           | <.2                                 | 9                                      | 0                                                      | 2.4                                          | .60                                                  | 91                                           | 95                | 14                                      |
| KEMPER                        |                             |                                              |                                     |                                        |                                                        |                                              |                                                      |                                              |                   |                                         |
| A017 KEMPER W A               | --                          | --                                           | 7.4                                 | 5                                      | 2                                                      | 1.3                                          | .40                                                  | 2.0                                          | 41                | .4                                      |
| L014 N W KEMPER CO            | --                          | --                                           | --                                  | 10                                     | 1                                                      | 2.3                                          | 1.1                                                  | 2.9                                          | 33                | .4                                      |
| N016 KIPLING W A              | 19.0                        | 4                                            | <.3                                 | 9                                      | 3                                                      | 1.8                                          | 1.1                                                  | 2.1                                          | 30                | .3                                      |
| R023 THORNTON                 | --                          | 7                                            | --                                  | 69                                     | 0                                                      | 21                                           | 3.9                                                  | 12                                           | 26                | .7                                      |
| LAUDERDALE                    |                             |                                              |                                     |                                        |                                                        |                                              |                                                      |                                              |                   |                                         |
| J109 TOOMSUBA W A #2          | 20.0                        | 3                                            | <.3                                 | 63                                     | 26                                                     | 20                                           | 3.0                                                  | 32                                           | 51                | 2                                       |
| LEAKE                         |                             |                                              |                                     |                                        |                                                        |                                              |                                                      |                                              |                   |                                         |
| F006 R&R PROCESSING           | --                          | 5                                            | --                                  | 15                                     | 0                                                      | 4.5                                          | .80                                                  | 72                                           | 91                | 9                                       |
| H006 EDINBURG W A             | --                          | 5                                            | --                                  | 35                                     | 0                                                      | 12                                           | 1.1                                                  | 48                                           | 74                | 4                                       |
| Q032 FREENEY W A              | --                          | 5                                            | --                                  | 13                                     | 0                                                      | 4.3                                          | .60                                                  | 61                                           | 90                | 8                                       |
| MONTGOMERY                    |                             |                                              |                                     |                                        |                                                        |                                              |                                                      |                                              |                   |                                         |
| D009 ESK-ROSE HILL W A        | 21.0                        | 4                                            | <.1                                 | 9                                      | 0                                                      | 2.6                                          | .60                                                  | 72                                           | 94                | 11                                      |
| D013 DUCK HILL                | 22.5                        | 15                                           | <.1                                 | 6                                      | 0                                                      | 1.8                                          | .40                                                  | 160                                          | 98                | 29                                      |
| K019 KILMICHEAL               | 21.5                        | --                                           | <.3                                 | 7                                      | 0                                                      | 2.2                                          | .40                                                  | 77                                           | 95                | 13                                      |
| L002 STEWART W A              | 22.0                        | 5                                            | <.3                                 | 2                                      | 0                                                      | .50                                          | .10                                                  | 79                                           | 99                | 28                                      |
| M001 POPLAR CREEK W A         | --                          | 5                                            | --                                  | 1                                      | 0                                                      | .30                                          | .06                                                  | 87                                           | 99                | 39                                      |

QUALITY OF GROUND WATER  
RADIOISOTOPES IN GROUND WATER PROJECT--Continued

| LOCAL<br>IDENT-<br>I-<br>FIER | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LINITY<br>LAB<br>(MG/L<br>AS<br>CAC03) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | BROMIDE<br>DIS-<br>SOLVED<br>(MG/L<br>AS BR) | IODIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS I) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTITUENTS,<br>DIS-<br>SOLVED<br>(MG/L) |
|-------------------------------|-----------------------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|----------------------------------------------|---------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------|
| ATTALA                        |                                                     |                                                 |                                               |                                                     |                                                    |                                              |                                             |                                                   |                                                                    |                                                                |
| H025 ETHEL RURAL W A          | 1.7                                                 | 120                                             | 6.8                                           | 5.2                                                 | <.10                                               | .02                                          | .003                                        | 18                                                | 168                                                                | 160                                                            |
| J008 MCCOOL                   | 1.8                                                 | 119                                             | 2.7                                           | 5.8                                                 | .10                                                | .01                                          | .004                                        | 27                                                | 170                                                                | 180                                                            |
| T007 CONEHOMA W A             | 1.2                                                 | 112                                             | 4.8                                           | 10                                                  | .10                                                | <.01                                         | .003                                        | 15                                                | 150                                                                | 160                                                            |
| CHOCTAW                       |                                                     |                                                 |                                               |                                                     |                                                    |                                              |                                             |                                                   |                                                                    |                                                                |
| D001 NATCHEZ TRACE PK         | 1.9                                                 | 119                                             | 1.6                                           | 3.2                                                 | .20                                                | .01                                          | .004                                        | 31                                                | 160                                                                | 170                                                            |
| D023 REFORM W A               | 1.6                                                 | 98                                              | .9                                            | 4.4                                                 | .10                                                | .02                                          | .003                                        | 31                                                | 130                                                                | 150                                                            |
| F003 FRENCH CAMP W A          | 1.2                                                 | 127                                             | 2.8                                           | 4.9                                                 | .10                                                | .03                                          | .004                                        | 21                                                | 174                                                                | 170                                                            |
| CLARKE                        |                                                     |                                                 |                                               |                                                     |                                                    |                                              |                                             |                                                   |                                                                    |                                                                |
| R020 SHUBUTA                  | 1.1                                                 | 226                                             | .8                                            | 100                                                 | .30                                                | .30                                          | .018                                        | 18                                                | --                                                                 | 470                                                            |
| HOLMES                        |                                                     |                                                 |                                               |                                                     |                                                    |                                              |                                             |                                                   |                                                                    |                                                                |
| F017 WEST                     | 1.1                                                 | 314                                             | 3.6                                           | 47                                                  | .30                                                | .19                                          | .004                                        | 14                                                | 434                                                                | 430                                                            |
| JASPER                        |                                                     |                                                 |                                               |                                                     |                                                    |                                              |                                             |                                                   |                                                                    |                                                                |
| D031 ROSE HILL W A            | 1.3                                                 | --                                              | .9                                            | 7.8                                                 | .20                                                | .02                                          | .004                                        | 17                                                | --                                                                 | 150                                                            |
| KEMPER                        |                                                     |                                                 |                                               |                                                     |                                                    |                                              |                                             |                                                   |                                                                    |                                                                |
| A017 KEMPER W A               | 1.1                                                 | 3.0                                             | .8                                            | 2.7                                                 | <.10                                               | .02                                          | .003                                        | 11                                                | 16                                                                 | 21                                                             |
| L014 N W KEMPER CO            | 2.2                                                 | 9.0                                             | 7.0                                           | 1.8                                                 | <.10                                               | <.01                                         | .003                                        | 17                                                | 40                                                                 | 40                                                             |
| N016 KIPLING W A              | 1.4                                                 | 1.0                                             | 10                                            | 2.3                                                 | <.10                                               | .01                                          | .003                                        | 16                                                | 30                                                                 | 39                                                             |
| R023 THORNTON                 | 4.1                                                 | 88                                              | 7.4                                           | 2.4                                                 | <.10                                               | .03                                          | .004                                        | 44                                                | 138                                                                | 150                                                            |
| LAUDERDALE                    |                                                     |                                                 |                                               |                                                     |                                                    |                                              |                                             |                                                   |                                                                    |                                                                |
| J109 TOOMSUBA W A #2          | 3.2                                                 | 110                                             | 11                                            | 6.1                                                 | .10                                                | .02                                          | .005                                        | 29                                                | 168                                                                | 130                                                            |
| LEAKE                         |                                                     |                                                 |                                               |                                                     |                                                    |                                              |                                             |                                                   |                                                                    |                                                                |
| F006 R&R PROCESSING           | 1.1                                                 | 153                                             | 6.7                                           | 5.6                                                 | <.10                                               | .01                                          | .003                                        | 16                                                | 190                                                                | 200                                                            |
| H006 EDINBURG W A             | 1.3                                                 | 123                                             | 9.7                                           | 1.9                                                 | <.10                                               | <.01                                         | .003                                        | 17                                                | 162                                                                | 170                                                            |
| Q032 FREENEY W A              | 1.5                                                 | 129                                             | 7.6                                           | 3.4                                                 | <.10                                               | <.01                                         | .003                                        | 16                                                | 162                                                                | 170                                                            |
| MONTGOMERY                    |                                                     |                                                 |                                               |                                                     |                                                    |                                              |                                             |                                                   |                                                                    |                                                                |
| D009 ESK-ROSE HILL W A        | 1.3                                                 | 153                                             | 2.8                                           | 5.8                                                 | .10                                                | .02                                          | .003                                        | 13                                                | 190                                                                | 190                                                            |
| D013 DUCK HILL                | 1.5                                                 | 277                                             | 4.4                                           | 48                                                  | .30                                                | .18                                          | .006                                        | 13                                                | 400                                                                | 400                                                            |
| K019 KILMICHEAL               | 1.5                                                 | 166                                             | 1.9                                           | 2.7                                                 | .10                                                | <.01                                         | .003                                        | 13                                                | 204                                                                | 200                                                            |
| L002 STEWART W A              | .70                                                 | 150                                             | 1.7                                           | 11                                                  | .10                                                | .05                                          | .004                                        | 13                                                | 194                                                                | 200                                                            |
| M001 POPLAR CREEK W A         | .50                                                 | 160                                             | 1.8                                           | 16                                                  | .10                                                | .07                                          | .004                                        | 15                                                | 208                                                                | 220                                                            |



## RADIOISOTOPES IN GROUND WATER PROJECT--Continued

| LOCAL<br>IDENT-<br>I-<br>FIER | ALUM-<br>INUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AL) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | BORON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS B) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) | LITHIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS LI) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |
|-------------------------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|--------------------------------------------|-----------------------------------------------------|----------------------------------------------|--------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------------------|
| ATTALA                        |                                                     |                                              |                                              |                                            |                                                     |                                              |                                            |                                            |                                              |                                                      |
| H025 ETHEL RURAL W A          | --                                                  | --                                           | 39                                           | 40                                         | --                                                  | --                                           | 27                                         | --                                         | 6                                            | 52                                                   |
| J008 MCCOOL                   | --                                                  | --                                           | 11                                           | 50                                         | --                                                  | --                                           | 7                                          | --                                         | 17                                           | 100                                                  |
| T007 CONEHOMA W A             | --                                                  | --                                           | 37                                           | 40                                         | --                                                  | --                                           | <3                                         | --                                         | 7                                            | 4                                                    |
| CHOCTAW                       |                                                     |                                              |                                              |                                            |                                                     |                                              |                                            |                                            |                                              |                                                      |
| D001 NATCHEZ TRACE PK         | --                                                  | --                                           | 31                                           | 60                                         | --                                                  | --                                           | 600                                        | --                                         | 17                                           | 86                                                   |
| D023 REFORM W A               | --                                                  | --                                           | 27                                           | 50                                         | --                                                  | --                                           | 1900                                       | --                                         | 18                                           | 57                                                   |
| F003 FRENCH CAMP W A          | --                                                  | --                                           | 21                                           | 30                                         | --                                                  | --                                           | 140                                        | --                                         | 18                                           | 67                                                   |
| CLARKE                        |                                                     |                                              |                                              |                                            |                                                     |                                              |                                            |                                            |                                              |                                                      |
| R020 SHUBUTA                  | <10                                                 | <1                                           | 13                                           | 100                                        | <10                                                 | <10                                          | 16                                         | <10                                        | 13                                           | <1                                                   |
| HOLMES                        |                                                     |                                              |                                              |                                            |                                                     |                                              |                                            |                                            |                                              |                                                      |
| F017 WEST                     | --                                                  | --                                           | 8                                            | 360                                        | --                                                  | --                                           | 45                                         | --                                         | 14                                           | 7                                                    |
| JASPER                        |                                                     |                                              |                                              |                                            |                                                     |                                              |                                            |                                            |                                              |                                                      |
| D031 ROSE HILL W A            | <10                                                 | <1                                           | 22                                           | 40                                         | <10                                                 | <10                                          | 32                                         | <10                                        | <4                                           | 14                                                   |
| KEMPER                        |                                                     |                                              |                                              |                                            |                                                     |                                              |                                            |                                            |                                              |                                                      |
| A017 KEMPER W A               | --                                                  | --                                           | <2                                           | <10                                        | --                                                  | --                                           | 8                                          | --                                         | <4                                           | 4                                                    |
| L014 N W KEMPER CO            | --                                                  | --                                           | 35                                           | <10                                        | --                                                  | --                                           | 380                                        | --                                         | <4                                           | 12                                                   |
| N016 KIPLING W A              | --                                                  | --                                           | 67                                           | <10                                        | --                                                  | --                                           | 450                                        | --                                         | 7                                            | 12                                                   |
| R023 THORNTON                 | --                                                  | --                                           | 62                                           | 20                                         | --                                                  | --                                           | 3200                                       | --                                         | 18                                           | 77                                                   |
| LAUDERDALE                    |                                                     |                                              |                                              |                                            |                                                     |                                              |                                            |                                            |                                              |                                                      |
| J109 TOOMSUBA W A #2          | --                                                  | --                                           | 37                                           | 30                                         | --                                                  | --                                           | 190                                        | --                                         | 23                                           | 160                                                  |
| LEAKE                         |                                                     |                                              |                                              |                                            |                                                     |                                              |                                            |                                            |                                              |                                                      |
| F006 R&R PROCESSING           | --                                                  | --                                           | 28                                           | 50                                         | --                                                  | --                                           | 14                                         | --                                         | 7                                            | 35                                                   |
| H006 EDINBURG W A             | --                                                  | --                                           | 46                                           | 30                                         | --                                                  | --                                           | 18                                         | --                                         | 5                                            | 38                                                   |
| Q032 FREENEY W A              | --                                                  | --                                           | 23                                           | 40                                         | --                                                  | --                                           | 35                                         | --                                         | 5                                            | 26                                                   |
| MONTGOMERY                    |                                                     |                                              |                                              |                                            |                                                     |                                              |                                            |                                            |                                              |                                                      |
| D009 ESK-ROSE HILL W A        | --                                                  | --                                           | 13                                           | 110                                        | --                                                  | --                                           | 130                                        | --                                         | 12                                           | 13                                                   |
| D013 DUCK HILL                | --                                                  | --                                           | 12                                           | 460                                        | --                                                  | --                                           | 20                                         | --                                         | 15                                           | 10                                                   |
| K019 KILMICHEAL               | --                                                  | --                                           | 10                                           | 120                                        | --                                                  | --                                           | 13                                         | --                                         | 6                                            | 15                                                   |
| L002 STEWART W A              | --                                                  | --                                           | 3                                            | 170                                        | --                                                  | --                                           | 15                                         | --                                         | 11                                           | 8                                                    |
| M001 POPLAR CREEK W A         | --                                                  | --                                           | <2                                           | 110                                        | --                                                  | --                                           | 32                                         | --                                         | 6                                            | 6                                                    |

QUALITY OF GROUND WATER  
RADIOISOTOPES IN GROUND WATER PROJECT--Continued

| LOCAL<br>IDENT-<br>I-<br>FIER | MOLYB-<br>DENUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MO) | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) | RADIUM<br>226,<br>DIS-<br>SOLVED,<br>RADON<br>METHOD<br>(PCI/L) | RADIUM<br>228<br>DIS-<br>SOLVED<br>(PCI/L<br>AS<br>RA-228) | URANIUM<br>NATURAL<br>DIS-<br>SOLVED<br>(UG/L<br>AS U) | URANIUM<br>DISS.<br>ISOTOPE<br>RATIO<br>(U-234/<br>U-238) |
|-------------------------------|-------------------------------------------------------|------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------|
| ATTALA                        |                                                       |                                                      |                                            |                                                                 |                                                            |                                                        |                                                           |
| H025 ETHEL RURAL W A          | --                                                    | 310                                                  | <3                                         | .07                                                             | --                                                         | <.1                                                    | 2.39                                                      |
| J008 MCCOOL                   | --                                                    | 95                                                   | <3                                         | .04                                                             | --                                                         | <.1                                                    | 1.47                                                      |
| T007 CONEHOMA W A             | --                                                    | 200                                                  | 4                                          | .06                                                             | .09                                                        | <.1                                                    | 3.36                                                      |
| CHOCTAW                       |                                                       |                                                      |                                            |                                                                 |                                                            |                                                        |                                                           |
| D001 NATCHEZ TRACE PK         | --                                                    | 200                                                  | 6                                          | .08                                                             | .14                                                        | --                                                     | --                                                        |
| D023 REFORM W A               | --                                                    | 190                                                  | 4                                          | .22                                                             | .36                                                        | <.1                                                    | .60                                                       |
| F003 FRENCH CAMP W A          | --                                                    | 190                                                  | <3                                         | .08                                                             | --                                                         | <.1                                                    | 2.39                                                      |
| CLARKE                        |                                                       |                                                      |                                            |                                                                 |                                                            |                                                        |                                                           |
| R020 SHUBUTA                  | <1                                                    | 68                                                   | <3                                         | .07                                                             | .08                                                        | <.1                                                    | --                                                        |
| HOLMES                        |                                                       |                                                      |                                            |                                                                 |                                                            |                                                        |                                                           |
| F017 WEST                     | --                                                    | 28                                                   | <3                                         | .05                                                             | .07                                                        | <.1                                                    | .55                                                       |
| JASPER                        |                                                       |                                                      |                                            |                                                                 |                                                            |                                                        |                                                           |
| D031 ROSE HILL W A            | <1                                                    | 85                                                   | 3                                          | .04                                                             | .08                                                        | <.1                                                    | .75                                                       |
| KEMPER                        |                                                       |                                                      |                                            |                                                                 |                                                            |                                                        |                                                           |
| A017 KEMPER W A               | --                                                    | 3                                                    | 52                                         | .11                                                             | .17                                                        | <.1                                                    | 1.39                                                      |
| L014 N W KEMPER CO            | --                                                    | 30                                                   | 9                                          | .13                                                             | --                                                         | <.1                                                    | .60                                                       |
| N016 KIJPLING W A             | --                                                    | 19                                                   | 24                                         | .32                                                             | .27                                                        | <.1                                                    | .83                                                       |
| R023 THORNTON                 | --                                                    | 410                                                  | 360                                        | .15                                                             | .19                                                        | <.1                                                    | 2.01                                                      |
| LAUDERDALE                    |                                                       |                                                      |                                            |                                                                 |                                                            |                                                        |                                                           |
| J109 TOOMSUBA W A #2          | --                                                    | 360                                                  | <3                                         | .27                                                             | .36                                                        | <.1                                                    | --                                                        |
| LEAKE                         |                                                       |                                                      |                                            |                                                                 |                                                            |                                                        |                                                           |
| F006 R&R PROCESSING           | --                                                    | 130                                                  | <3                                         | .07                                                             | .09                                                        | <.1                                                    | .52                                                       |
| H006 EDINBURG W A             | --                                                    | 300                                                  | <3                                         | .20                                                             | .30                                                        | <.1                                                    | 5.63                                                      |
| Q032 FREENEY W A              | 4                                                     | 130                                                  | <3                                         | .08                                                             | .11                                                        | <.1                                                    | 2.32                                                      |
| MONTGOMERY                    |                                                       |                                                      |                                            |                                                                 |                                                            |                                                        |                                                           |
| D009 ESK-ROSE HILL W A        | --                                                    | 93                                                   | 58                                         | <.01                                                            | .01                                                        | <.1                                                    | --                                                        |
| D013 DUCK HILL                | --                                                    | 70                                                   | <3                                         | .02                                                             | .03                                                        | <.1                                                    | 1.41                                                      |
| K019 KILMICHEAL               | 21                                                    | 75                                                   | <3                                         | .01                                                             | .01                                                        | <.1                                                    | .30                                                       |
| L002 STEWART W A              | --                                                    | 19                                                   | <3                                         | <.01                                                            | --                                                         | <.1                                                    | 1.35                                                      |
| M001 POPLAR CREEK W A         | --                                                    | 11                                                   | 15                                         | .09                                                             | .18                                                        | <.1                                                    | .64                                                       |

QUALITY OF GROUND WATER  
RADIOISOTOPES IN GROUND WATER PROJECT--Continued

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| LOCAL<br>IDENT-<br>I-<br>FIER | STATION         | NUMBER | GEO-<br>LOGIC<br>UNIT | DATE<br>OF<br>SAMPLE | TIME | SAMPLE<br>SOURCE | SAM-<br>PLING<br>CONDI-<br>TION | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET) | ELEV.<br>OF LAND<br>SURFACE<br>DATUM<br>(FT.<br>ABOVE<br>NGVD) | PH<br>(STAND-<br>ARD<br>UNITS) |
|-------------------------------|-----------------|--------|-----------------------|----------------------|------|------------------|---------------------------------|-----------------------------------------|----------------------------------------------------------------|--------------------------------|
| NESHOB                        |                 |        |                       |                      |      |                  |                                 |                                         |                                                                |                                |
| B020 CENTRAL W A              | 325209089104101 |        | 124 WLCXL             | 07-26-85             | 1800 | 1                | .10                             | 808                                     | 475.00                                                         | 6.9                            |
| C001 CENTRAL W A              | 325505089061101 |        | 124 WLCXL             | 06-19-85             | 1400 | --               | --                              | 690                                     | 510.00                                                         | 6.3                            |
| F048 PEARL R IND COMM         | 324647089121901 |        | 124 WLCXL             | 07-10-85             | 1300 | 1                | .10                             | 973                                     | 420.00                                                         | --                             |
| F052 PHILADELPHIA             | 324539089061501 |        | 124 WLCXL             | 07-10-85             | 0900 | 1                | .10                             | 845                                     | 480.00                                                         | --                             |
| G003 CENTRAL W A              | 324858089062601 |        | 124 WLCXL             | 07-09-85             | 0915 | 1                | .10                             | 650                                     | 420.00                                                         | --                             |
| H019 EASTSIDE W A             | 324745088593501 |        | 124 WLCXL             | 07-09-85             | 1600 | 1                | .10                             | 677                                     | 615.00                                                         | --                             |
| P002 CENTRAL W A              | 323954089020401 |        | 124 WLCXL             | 06-19-85             | 1000 | --               | --                              | 950                                     | 610.00                                                         | 6.3                            |
| NEWTON                        |                 |        |                       |                      |      |                  |                                 |                                         |                                                                |                                |
| K081 NEWTON                   | 322007089091502 |        | 124 SPRT              | 06-18-85             | 1400 | --               | --                              | 324                                     | 486.00                                                         | 6.6                            |
| WAYNE                         |                 |        |                       |                      |      |                  |                                 |                                         |                                                                |                                |
| C058 WAYNESBORO               | 315011088413601 |        | 124 WLCXL             | 06-21-85             | 1300 | --               | --                              | 2400                                    | 252.00                                                         | 8.3                            |
| WEBSTER                       |                 |        |                       |                      |      |                  |                                 |                                         |                                                                |                                |
| A010 CADARETTA W A            | 334215089263601 |        | 124 WLCXM             | 07-28-85             | 1200 | 1                | .10                             | 280                                     | 300.00                                                         | --                             |
| H006 EUPORA                   | 333140089153801 |        | 124 WLCXL             | 07-29-85             | 0800 | 1                | .10                             | 173                                     | 370.00                                                         | --                             |
| M025 TOMNOLEN W A             | 332425089212001 |        | 124 WLCXL             | 07-29-85             | 1200 | 1                | .10                             | 359                                     | 350.00                                                         | --                             |
| WINSTON                       |                 |        |                       |                      |      |                  |                                 |                                         |                                                                |                                |
| D013 HIGH POINT W A           | 331051089065101 |        | 124 WLCXL             | 07-22-85             | 1530 | 1                | .10                             | 406                                     | 590.00                                                         | 5.7                            |
| F002 NORTHEAST W A            | 330848088585401 |        | 124 WLCXL             | 06-20-85             | 1400 | --               | --                              | 151                                     | 510.00                                                         | 5.5                            |
| K003 LOUISVILLE               | 330611089033003 |        | 124 WLCXL             | 06-20-85             | 1000 | --               | --                              | 356                                     | 510.00                                                         | 5.7                            |
| P014 NOXAPATER                | 325940089041301 |        | 124 WLCXL             | 07-27-85             | 0730 | 1                | .10                             | 530                                     | 540.00                                                         | 6.1                            |
| Q001 NANIH WAIYA W A          | 325910088560601 |        | 124 WLCXL             | 07-22-85             | 1115 | 1                | .10                             | 285                                     | 510.00                                                         | 5.8                            |

QUALITY OF GROUND WATER  
RADIOISOTOPES IN GROUND WATER PROJECT--Continued

| LOCAL<br>IDENT-<br>I-<br>FIER | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L) | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CACO3) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO |
|-------------------------------|-----------------------------|----------------------------------------------|-------------------------------------|----------------------------------------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|
| NESHOBAMA                     |                             |                                              |                                     |                                        |                                                        |                                              |                                                      |                                              |                   |                                         |
| B020 CENTRAL W A              | 22.0                        | 5                                            | <.3                                 | 78                                     | 0                                                      | 24                                           | 4.3                                                  | 18                                           | 33                | .9                                      |
| C001 CENTRAL W A              | 22.5                        | --                                           | <.5                                 | 31                                     | 0                                                      | 7.9                                          | 2.6                                                  | 12                                           | 44                | 1                                       |
| F048 PEARL R IND COMM         | --                          | 3                                            | --                                  | 62                                     | 0                                                      | 19                                           | 3.4                                                  | 26                                           | 47                | 2                                       |
| F052 PHILADELPHIA             | --                          | 3                                            | --                                  | 26                                     | 0                                                      | 7.5                                          | 1.8                                                  | 10                                           | 41                | .9                                      |
| G003 CENTRAL W A              | --                          | 3                                            | --                                  | 32                                     | 2                                                      | 6.0                                          | 4.0                                                  | 8.0                                          | 33                | .6                                      |
| H019 EASTSIDE W A             | --                          | 3                                            | --                                  | 19                                     | 1                                                      | 4.0                                          | 2.2                                                  | 4.2                                          | 29                | .4                                      |
| P002 CENTRAL W A              | 24.0                        | --                                           | --                                  | 38                                     | 0                                                      | 11                                           | 2.6                                                  | 9.4                                          | 32                | .7                                      |
| NEWTON                        |                             |                                              |                                     |                                        |                                                        |                                              |                                                      |                                              |                   |                                         |
| K081 NEWTON                   | 20.0                        | --                                           | <.4                                 | 100                                    | 0                                                      | 34                                           | 3.8                                                  | 7.4                                          | 13                | .3                                      |
| WAYNE                         |                             |                                              |                                     |                                        |                                                        |                                              |                                                      |                                              |                   |                                         |
| C058 WAYNESBORO               | 38.0                        | --                                           | <.2                                 | 6                                      | 0                                                      | 2.0                                          | .30                                                  | 230                                          | 98                | 42                                      |
| WEBSTER                       |                             |                                              |                                     |                                        |                                                        |                                              |                                                      |                                              |                   |                                         |
| A010 CADARETTA W A            | 20.0                        | 3                                            | <.3                                 | 11                                     | 0                                                      | 3.2                                          | .80                                                  | 74                                           | 92                | 10                                      |
| H006 EUPORA                   | 18.5                        | 4                                            | <.1                                 | 24                                     | 0                                                      | 5.7                                          | 2.4                                                  | 31                                           | 71                | 3                                       |
| M025 TOMMOLEN W A             | --                          | 3                                            | <.2                                 | 19                                     | 0                                                      | 5.4                                          | 1.3                                                  | 67                                           | 87                | 7                                       |
| WINSTON                       |                             |                                              |                                     |                                        |                                                        |                                              |                                                      |                                              |                   |                                         |
| D013 HIGH POINT W A           | 21.0                        | --                                           | 1.2                                 | 42                                     | 0                                                      | 11                                           | 3.4                                                  | 22                                           | 51                | 2                                       |
| F002 NORTHEAST W A            | 18.5                        | --                                           | 9.2                                 | 7                                      | 5                                                      | 1.9                                          | .60                                                  | 2.8                                          | 44                | .5                                      |
| K003 LOUISVILLE               | 22.5                        | --                                           | .3                                  | 18                                     | 11                                                     | 3.7                                          | 2.1                                                  | 6.9                                          | 41                | .7                                      |
| P014 NOXAPATER                | 21.0                        | 3                                            | <.4                                 | 27                                     | 0                                                      | 6.2                                          | 2.7                                                  | 9.1                                          | 40                | .8                                      |
| Q001 NANIH WAIYA W A          | 21.0                        | --                                           | 3.8                                 | 8                                      | 0                                                      | 1.7                                          | .80                                                  | 3.8                                          | 45                | .6                                      |

## RADIOISOTOPES IN GROUND WATER PROJECT--Continued

| LOCAL<br>IDENT-<br>I-<br>FIER | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LINITY<br>LAB<br>(MG/L<br>AS<br>CAC03) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | BROMIDE<br>DIS-<br>SOLVED<br>(MG/L<br>AS BR) | IODIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS I) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTITUENTS,<br>DIS-<br>SOLVED<br>(MG/L) |
|-------------------------------|-----------------------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|----------------------------------------------|---------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------|
| NESHOBAMA                     |                                                     |                                                 |                                               |                                                     |                                                    |                                              |                                             |                                                   |                                                                    |                                                                |
| B020 CENTRAL W A              | 2.5                                                 | 100                                             | 9.0                                           | 4.2                                                 | <.10                                               | .01                                          | .004                                        | 25                                                | 134                                                                | 160                                                            |
| C001 CENTRAL W A              | 2.6                                                 | 48                                              | 4.2                                           | 2.8                                                 | <.10                                               | .02                                          | .003                                        | 24                                                | --                                                                 | 110                                                            |
| F048 PEARL R IND COMM         | 2.8                                                 | 95                                              | 15                                            | 4.3                                                 | <.10                                               | .01                                          | .004                                        | 19                                                | 140                                                                | 150                                                            |
| F052 PHILADELPHIA             | 3.7                                                 | 39                                              | 4.3                                           | 3.8                                                 | <.10                                               | .02                                          | .004                                        | 18                                                | 68                                                                 | 82                                                             |
| G003 CENTRAL W A              | 3.0                                                 | 30                                              | 3.3                                           | 3.7                                                 | .10                                                | .41                                          | .006                                        | 15                                                | 64                                                                 | 72                                                             |
| H019 EASTSIDE W A             | 2.4                                                 | 18                                              | 5.1                                           | 4.7                                                 | <.10                                               | .01                                          | .004                                        | 17                                                | 52                                                                 | 53                                                             |
| P002 CENTRAL W A              | 4.0                                                 | 47                                              | 5.9                                           | 3.9                                                 | <.10                                               | .04                                          | .004                                        | 20                                                | --                                                                 | 110                                                            |
| NEWTON                        |                                                     |                                                 |                                               |                                                     |                                                    |                                              |                                             |                                                   |                                                                    |                                                                |
| K081 NEWTON                   | 2.3                                                 | 97                                              | 8.2                                           | 3.5                                                 | <.10                                               | .01                                          | .005                                        | 36                                                | --                                                                 | 170                                                            |
| WAYNE                         |                                                     |                                                 |                                               |                                                     |                                                    |                                              |                                             |                                                   |                                                                    |                                                                |
| C058 WAYNESBORO               | 1.4                                                 | 296                                             | 1.4                                           | 160                                                 | .50                                                | .42                                          | .031                                        | 19                                                | --                                                                 | 640                                                            |
| WEBSTER                       |                                                     |                                                 |                                               |                                                     |                                                    |                                              |                                             |                                                   |                                                                    |                                                                |
| A010 CADARETTA W A            | 1.4                                                 | 155                                             | 1.2                                           | 6.3                                                 | .10                                                | .04                                          | .005                                        | 11                                                | 184                                                                | 190                                                            |
| H006 EUPORA                   | 2.3                                                 | 85                                              | .9                                            | 2.0                                                 | .20                                                | .01                                          | .003                                        | 47                                                | 118                                                                | 140                                                            |
| M025 TOMNOLEN W A             | 1.6                                                 | 144                                             | 8.3                                           | 5.5                                                 | .10                                                | .04                                          | .003                                        | 32                                                | 204                                                                | 210                                                            |
| WINSTON                       |                                                     |                                                 |                                               |                                                     |                                                    |                                              |                                             |                                                   |                                                                    |                                                                |
| D013 HIGH POINT W A           | 3.0                                                 | 80                                              | 3.2                                           | 4.1                                                 | <.10                                               | .03                                          | .003                                        | 24                                                | 112                                                                | 150                                                            |
| F002 NORTHEAST W A            | .40                                                 | --                                              | 1.1                                           | 3.7                                                 | <.10                                               | <.01                                         | <.001                                       | 13                                                | --                                                                 | 25                                                             |
| K003 LOUISVILLE               | 2.9                                                 | --                                              | 17                                            | 4.5                                                 | <.10                                               | .03                                          | .005                                        | 28                                                | --                                                                 | 74                                                             |
| P014 NOXAPATER                | 2.4                                                 | 37                                              | 5.0                                           | 3.1                                                 | .10                                                | .03                                          | .003                                        | 27                                                | 78                                                                 | 110                                                            |
| Q001 NANIH WAIYA W A          | 2.0                                                 | 8.0                                             | 4.4                                           | 2.8                                                 | <.10                                               | .03                                          | .003                                        | 18                                                | 38                                                                 | 56                                                             |



## QUALITY OF GROUND WATER

## RADIOISOTOPES IN GROUND WATER PROJECT--Continued

| LOCAL<br>IDENT-<br>I-<br>FIER | ALUM-<br>INUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AL) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | BORON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS B) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) | LITHIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS LI) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |
|-------------------------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|--------------------------------------------|-----------------------------------------------------|----------------------------------------------|--------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------------------|
| NESHODA                       |                                                     |                                              |                                              |                                            |                                                     |                                              |                                            |                                            |                                              |                                                      |
| B020 CENTRAL W A              | --                                                  | --                                           | 73                                           | 20                                         | --                                                  | --                                           | 4000                                       | --                                         | 19                                           | 150                                                  |
| C001 CENTRAL W A              | <10                                                 | <1                                           | 48                                           | 10                                         | <10                                                 | <10                                          | 7500                                       | <10                                        | 22                                           | 130                                                  |
| F048 PEARL R IND COMM         | --                                                  | --                                           | 66                                           | 30                                         | --                                                  | --                                           | 3500                                       | --                                         | 17                                           | 93                                                   |
| F052 PHILADELPHIA             | --                                                  | --                                           | 84                                           | 10                                         | --                                                  | --                                           | 9400                                       | --                                         | 18                                           | 140                                                  |
| G003 CENTRAL W A              | --                                                  | --                                           | 63                                           | 10                                         | --                                                  | --                                           | 10000                                      | --                                         | 16                                           | 160                                                  |
| H019 EASTSIDE W A             | --                                                  | --                                           | 91                                           | <10                                        | --                                                  | --                                           | 1900                                       | --                                         | 5                                            | 50                                                   |
| P002 CENTRAL W A              | <10                                                 | <1                                           | 110                                          | 10                                         | <10                                                 | <10                                          | 7400                                       | <10                                        | 16                                           | 140                                                  |
| NEWTON                        |                                                     |                                              |                                              |                                            |                                                     |                                              |                                            |                                            |                                              |                                                      |
| K081 NEWTON                   | 20                                                  | <1                                           | 32                                           | 280                                        | <10                                                 | <10                                          | 560                                        | <10                                        | 13                                           | 37                                                   |
| WAYNE                         |                                                     |                                              |                                              |                                            |                                                     |                                              |                                            |                                            |                                              |                                                      |
| C058 WAYNESBORO               | <10                                                 | <1                                           | 19                                           | 40                                         | 20                                                  | <10                                          | <3                                         | <10                                        | 12                                           | 2                                                    |
| WEBSTER                       |                                                     |                                              |                                              |                                            |                                                     |                                              |                                            |                                            |                                              |                                                      |
| A010 CADARETTA W A            | --                                                  | --                                           | 19                                           | 120                                        | --                                                  | --                                           | 39                                         | --                                         | 15                                           | 15                                                   |
| H006 EUPORA                   | --                                                  | --                                           | 19                                           | 20                                         | --                                                  | --                                           | 1600                                       | --                                         | 17                                           | 87                                                   |
| M025 TOMNOLEN W A             | --                                                  | --                                           | 11                                           | 50                                         | --                                                  | --                                           | 410                                        | --                                         | 30                                           | 40                                                   |
| WINSTON                       |                                                     |                                              |                                              |                                            |                                                     |                                              |                                            |                                            |                                              |                                                      |
| D013 HIGH POINT W A           | --                                                  | --                                           | 58                                           | 30                                         | --                                                  | --                                           | 3400                                       | --                                         | 19                                           | 140                                                  |
| F002 NORTHEAST W A            | <10                                                 | <1                                           | 12                                           | 20                                         | <10                                                 | <10                                          | <3                                         | <10                                        | <4                                           | 1                                                    |
| K003 LOUISVILLE               | <10                                                 | <1                                           | 64                                           | 20                                         | <10                                                 | <10                                          | 4500                                       | <10                                        | 15                                           | 67                                                   |
| P014 NOXAPATER                | --                                                  | --                                           | 49                                           | 10                                         | --                                                  | --                                           | 8400                                       | --                                         | 19                                           | 130                                                  |
| Q001 NANIH WAIYA W A          | --                                                  | --                                           | 31                                           | <10                                        | --                                                  | --                                           | 1000                                       | --                                         | 5                                            | 26                                                   |

## QUALITY OF GROUND WATER

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## RADIOISOTOPES IN GROUND WATER PROJECT--Continued

| LOCAL<br>IDENT-<br>I-<br>FIER | MOLYB-<br>DENUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MO) | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) | RADIUM<br>226,<br>DIS-<br>SOLVED,<br>RADON<br>METHOD<br>(PCI/L) | RADIUM<br>228<br>DIS-<br>SOLVED<br>(PCI/L<br>AS<br>RA-228) | URANIUM<br>NATURAL<br>DIS-<br>SOLVED<br>(UG/L<br>AS U) | URANIUM<br>DISS.<br>ISOTOPE<br>RATIO<br>(U-234/<br>U-238) |
|-------------------------------|-------------------------------------------------------|------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------|
| NESHOBIA                      |                                                       |                                                      |                                            |                                                                 |                                                            |                                                        |                                                           |
| B020 CENTRAL W A              | --                                                    | 540                                                  | 7                                          | .37                                                             | .58                                                        | <.1                                                    | --                                                        |
| C001 CENTRAL W A              | <1                                                    | 220                                                  | <3                                         | .19                                                             | .28                                                        | <.1                                                    | 1.21                                                      |
| F048 PEARL R IND COMM         | --                                                    | 440                                                  | <3                                         | .30                                                             | .35                                                        | <.1                                                    | 1.20                                                      |
| F052 PHILADELPHIA             | --                                                    | 180                                                  | 5                                          | .28                                                             | .38                                                        | <.1                                                    | --                                                        |
| G003 CENTRAL W A              | --                                                    | 89                                                   | <3                                         | .30                                                             | .39                                                        | <.1                                                    | >3.00                                                     |
| H019 EASTSIDE W A             | --                                                    | 70                                                   | 9                                          | .19                                                             | .29                                                        | <.1                                                    | .17                                                       |
| P002 CENTRAL W A              | <1                                                    | 200                                                  | 7                                          | .44                                                             | .68                                                        | <.1                                                    | 1.10                                                      |
| NEWTON                        |                                                       |                                                      |                                            |                                                                 |                                                            |                                                        |                                                           |
| K081 NEWTON                   | <1                                                    | 320                                                  | 8                                          | .10                                                             | .15                                                        | <.1                                                    | .91                                                       |
| WAYNE                         |                                                       |                                                      |                                            |                                                                 |                                                            |                                                        |                                                           |
| C058 WAYNESBORO               | <1                                                    | 96                                                   | 4                                          | .04                                                             | .06                                                        | <.1                                                    | .87                                                       |
| WEBSTER                       |                                                       |                                                      |                                            |                                                                 |                                                            |                                                        |                                                           |
| A010 CADARETTA W A            | --                                                    | 120                                                  | <3                                         | .03                                                             | .04                                                        | <.1                                                    | --                                                        |
| H006 EUPORA                   | --                                                    | 160                                                  | <3                                         | .01                                                             | .02                                                        | <.1                                                    | 1.48                                                      |
| M025 TOMNOLEN W A             | --                                                    | 140                                                  | 130                                        | .04                                                             | --                                                         | <.1                                                    | 2.16                                                      |
| WINSTON                       |                                                       |                                                      |                                            |                                                                 |                                                            |                                                        |                                                           |
| D013 HIGH POINT W A           | --                                                    | 380                                                  | <3                                         | .36                                                             | .55                                                        | <.1                                                    | --                                                        |
| F002 NORTHEAST W A            | <1                                                    | 4                                                    | 5                                          | .10                                                             | .07                                                        | <.1                                                    | .92                                                       |
| K003 LOUISVILLE               | <1                                                    | 27                                                   | 14                                         | .25                                                             | .39                                                        | <.1                                                    | .73                                                       |
| P014 NOXAPATER                | --                                                    | 170                                                  | <3                                         | .24                                                             | .41                                                        | <.1                                                    | .22                                                       |
| Q001 NANIH WAIYA W A          | --                                                    | 13                                                   | 11                                         | .19                                                             | .19                                                        | <.1                                                    | .99                                                       |

QUALITY OF GROUND WATER  
SHALLOW AQUIFER CONTAMINATION PROJECT  
WATER QUALITY DATA, JANUARY TO MARCH 1985

| LOCAL<br>IDENT-<br>I-<br>FIER | STATION NUMBER  | GEO-<br>LOGIC<br>UNIT | DATE<br>OF<br>SAMPLE | TIME         | SAMPLE<br>SOURCE | SAM-<br>PLING<br>CONDI-<br>TION | DEPTH<br>BELOW<br>LAND<br>SURFACE<br>(WATER<br>LEVEL)<br>(FEET) | ELEV.<br>OF LAND<br>SURFACE<br>DATUM<br>(FT.<br>ABOVE<br>NGVD) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) |
|-------------------------------|-----------------|-----------------------|----------------------|--------------|------------------|---------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------|
| HARRISON                      |                 |                       |                      |              |                  |                                 |                                                                 |                                                                |                                                   |
| B170 JAMES L ROUSE            | 303920089090302 | 121CRNL               | 01-17-85             | 1120         | 7                | 2.00                            | 49.75                                                           | 130.00                                                         | 251                                               |
| B172 USGS TEST HOLE           | 303823089114601 | 121CRNL               | 03-12-85             | 1300         | 7                | 2.00                            | 15.04                                                           | 90.00                                                          | 38                                                |
| B173 USGS TEST HOLE           | 303503089122501 | 121CRNL               | 03-06-85             | 0930         | 7                | 2.00                            | 11.22                                                           | 155.00                                                         | 29                                                |
| B174 USGS TEST HOLE           | 303639089093401 | 121GRMF               | 03-12-85             | 1415         | 7                | 2.00                            | 0.42                                                            | 95.00                                                          | 52                                                |
| C272 SHAW                     | 303811089080401 | 121GRMF               | 01-18-85<br>03-14-85 | 0845<br>0800 | 7<br>7           | 2.00<br>2.00                    | 24.68<br>20.71                                                  | 165.00<br>165.00                                               | 53<br>50                                          |
| C279 USGS TEST HOLE           | 303402089074780 | 111ALVM               | 01-16-85             | 1530         | 40               | .15                             | --                                                              | 45.00                                                          | 67                                                |
| C280 USGS TEST HOLE           | 303923089055801 | 121CRNL               | 03-08-85             | 1000         | 7                | 2.00                            | 4.40                                                            | 190.00                                                         | 23                                                |
| C281 USGS TEST HOLE           | 303618089031401 | 121CRNL               | 03-08-85             | 1225         | 7                | 2.00                            | 37.37                                                           | 180.00                                                         | 32                                                |
| C282 USGS TEST HOLE           | 303618089055901 | 121GRMF               | 03-14-85             | 1000         | 7                | 2.00                            | 5.84                                                            | 65.00                                                          | 49                                                |
| C283 USGS TEST HOLE           | 303405089064101 | 121GRMF               | 03-07-85             | 1600         | 7                | 2.00                            | 14.01                                                           | 65.00                                                          | 24                                                |
| F305 PATTEN                   | 303046089094701 | 121CRNL               | 01-23-85             | 1440         | 7                | 2.00                            | 18.32                                                           | 125.00                                                         | 26                                                |
| F313 USGS TEST HOLE           | 302849089110801 | 121GRMF               | 03-07-85             | 0955         | 7                | 2.00                            | 10.80                                                           | 85.00                                                          | 45                                                |
| F314 USGS TEST HOLE           | 302910089094201 | 121GRMF               | 03-07-85             | 1120         | 7                | 2.00                            | 15.23                                                           | 90.00                                                          | 25                                                |
| G415 USGS TEST HOLE           | 303306089025501 | 121GRMF               | 03-08-85             | 1330         | 7                | 2.00                            | 2.40                                                            | 125.00                                                         | 31                                                |
| G416 USGS TEST HOLE           | 303239089062901 | 121GRMF               | 03-13-85             | 1400         | 7                | 2.00                            | 5.29                                                            | 50.00                                                          | 32                                                |
| G417 USGS TEST HOLE           | 302858089044601 | 121GRMF               | 03-06-85             | 1350         | 7                | 2.00                            | 1.76                                                            | 65.00                                                          | 128                                               |
| K314 USGS TEST HOLE           | 302550089101201 | 121GRMF               | 03-13-85             | 0900         | 7                | 2.00                            | 1.70                                                            | 25.00                                                          | 131                                               |
| K315 USGS TEST HOLE           | 302709089080901 | 121GRMF               | 03-06-85             | 1430         | 7                | 2.00                            | 5.24                                                            | 65.00                                                          | 69                                                |

## QUALITY OF GROUND WATER

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## SHALLOW AQUIFER CONTAMINATION PROJECT--Continued

| LOCAL<br>IDENT-<br>IFIER | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CACO3) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO |
|--------------------------|--------------------------------|-----------------------------|----------------------------------------------|----------------------------------------|--------------------------------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|
| HARRISON                 |                                |                             |                                              |                                        |                                                        |                                              |                                                      |                                              |                   |                                         |
| B170 JAMES L ROUSE       | 7.7                            | 18.0                        | 5                                            | 95                                     | 0                                                      | 24                                           | 8.5                                                  | 15                                           | 25                | .7                                      |
| B172 USGS TEST HOLE      | 5.4                            | 22.0                        | 120                                          | 7                                      | 0                                                      | 1.6                                          | .81                                                  | 3.6                                          | 46                | .6                                      |
| B173 USGS TEST HOLE      | 5.3                            | 18.0                        | <1                                           | 4                                      | 0                                                      | .54                                          | .52                                                  | 2.2                                          | 54                | .5                                      |
| B174 USGS TEST HOLE      | 6.0                            | 19.5                        | --                                           | 12                                     | --                                                     | 2.9                                          | 1.2                                                  | 3.1                                          | 33                | .4                                      |
| C272 SHAW                | 5.3<br>5.1                     | 19.0<br>20.5                | 10<br>--                                     | 12<br>--                               | 7<br>--                                                | 2.6<br>--                                    | 1.4<br>--                                            | 3.0<br>--                                    | 32<br>--          | .4<br>--                                |
| C279 USGS TEST HOLE      | 5.9                            | 17.0                        | 70                                           | 8                                      | 0                                                      | 2.0                                          | .82                                                  | 9.4                                          | 69                | 1                                       |
| C280 USGS TEST HOLE      | 5.3                            | 18.0                        | <1                                           | 4                                      | 2                                                      | .61                                          | .51                                                  | 1.2                                          | 40                | .3                                      |
| C281 USGS TEST HOLE      | 5.4                            | 21.0                        | 5                                            | 2                                      | 0                                                      | .22                                          | .46                                                  | 3.5                                          | 74                | 1                                       |
| C282 USGS TEST HOLE      | 5.5                            | 20.5                        | 40                                           | 7                                      | 0                                                      | 1.7                                          | .58                                                  | 5.6                                          | 61                | 1                                       |
| C283 USGS TEST HOLE      | 5.4                            | 19.0                        | 5                                            | 3                                      | 0                                                      | .57                                          | .46                                                  | 2.2                                          | 54                | .5                                      |
| F305 PATTEN              | 5.6                            | 19.0                        | <1                                           | 5                                      | 0                                                      | 1.2                                          | .48                                                  | 2.4                                          | 48                | .5                                      |
| F313 USGS TEST HOLE      | 5.2                            | 19.0                        | 80                                           | 4                                      | 0                                                      | .59                                          | .70                                                  | 4.6                                          | 60                | 1                                       |
| F314 USGS TEST HOLE      | 5.4                            | 19.5                        | <1                                           | 3                                      | 0                                                      | .41                                          | .49                                                  | 2.6                                          | 62                | .7                                      |
| G415 USGS TEST HOLE      | 5.0                            | 21.0                        | 5                                            | 3                                      | 1                                                      | .62                                          | .44                                                  | 2.9                                          | 61                | .7                                      |
| G416 USGS TEST HOLE      | 5.6                            | 21.0                        | 240                                          | 3                                      | 0                                                      | .68                                          | .40                                                  | 4.1                                          | 63                | 1                                       |
| G417 USGS TEST HOLE      | 4.9                            | 18.0                        | 5                                            | 9                                      | 5                                                      | .89                                          | 1.7                                                  | 18                                           | 80                | 3                                       |
| K314 USGS TEST HOLE      | 5.6                            | 19.5                        | 200                                          | 5                                      | 0                                                      | .93                                          | .65                                                  | 17                                           | 85                | 3                                       |
| K315 USGS TEST HOLE      | 5.5                            | 19.0                        | <1                                           | 1                                      | 0                                                      | .29                                          | .16                                                  | 13                                           | 95                | 5                                       |

## QUALITY OF GROUND WATER

## SHALLOW AQUIFER CONTAMINATION PROJECT--Continued

| LOCAL<br>IDENT-<br>I-<br>FIER | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LINITY<br>LAB<br>(MG/L<br>AS<br>CAC03) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTI-<br>TUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | NITRO-<br>GEN,<br>NITRATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) |
|-------------------------------|-----------------------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|
| HARRISON                      |                                                     |                                                 |                                               |                                                     |                                                    |                                                   |                                                                    |                                                                     |                                                               |                                                               |
| B170 JAMES L ROUSE            | 3.8                                                 | 114                                             | 15                                            | 4.9                                                 | .10                                                | 61                                                | 206                                                                | 200                                                                 | --                                                            | <.010                                                         |
| B172 USGS TEST HOLE           | 1.4                                                 | 9.0                                             | 10                                            | 4.5                                                 | <.10                                               | 31                                                | --                                                                 | 59                                                                  | --                                                            | <.010                                                         |
| B173 USGS TEST HOLE           | .40                                                 | 3.0                                             | .6                                            | 3.7                                                 | <.10                                               | 9.1                                               | 26                                                                 | 19                                                                  | .20                                                           | .020                                                          |
| B174 USGS TEST HOLE           | 1.0                                                 | --                                              | 1.3                                           | 4.3                                                 | .10                                                | 14                                                | --                                                                 | --                                                                  | --                                                            | <.010                                                         |
| C272 SHAW                     | 1.2<br>--                                           | 5.0<br>--                                       | 1.3<br>--                                     | 8.3<br>--                                           | <.10<br>--                                         | 9.1<br>--                                         | 40<br>--                                                           | 32<br>--                                                            | 1.4<br>--                                                     | .020<br>--                                                    |
| C279 USGS TEST HOLE           | .80                                                 | 21                                              | 1.2                                           | 6.2                                                 | <.10                                               | 24                                                | 60                                                                 | 58                                                                  | --                                                            | .020                                                          |
| C280 USGS TEST HOLE           | .20                                                 | 2.0                                             | 2.2                                           | 2.4                                                 | <.10                                               | 3.5                                               | 12                                                                 | 12                                                                  | --                                                            | <.010                                                         |
| C281 USGS TEST HOLE           | .20                                                 | 3.0                                             | .4                                            | 6.3                                                 | <.10                                               | 7.1                                               | 20                                                                 | 20                                                                  | --                                                            | <.010                                                         |
| C282 USGS TEST HOLE           | 1.0                                                 | 11                                              | 2.3                                           | 5.8                                                 | <.10                                               | 17                                                | 40                                                                 | 41                                                                  | --                                                            | <.010                                                         |
| C283 USGS TEST HOLE           | .60                                                 | 4.0                                             | 1.4                                           | 3.5                                                 | <.10                                               | 10                                                | 26                                                                 | 21                                                                  | --                                                            | <.010                                                         |
| F305 PATTEN                   | .60                                                 | 5.0                                             | 1.9                                           | 3.9                                                 | <.10                                               | 11                                                | 24                                                                 | 25                                                                  | --                                                            | <.010                                                         |
| F313 USGS TEST HOLE           | 1.8                                                 | 6.0                                             | 8.2                                           | 6.4                                                 | <.10                                               | 28                                                | 42                                                                 | 54                                                                  | --                                                            | --                                                            |
| F314 USGS TEST HOLE           | .30                                                 | 4.0                                             | 1.1                                           | 4.4                                                 | <.10                                               | 7.3                                               | 22                                                                 | 19                                                                  | --                                                            | --                                                            |
| G415 USGS TEST HOLE           | .50                                                 | 2.0                                             | 3.3                                           | 5.5                                                 | <.10                                               | 8.8                                               | 28                                                                 | 23                                                                  | --                                                            | <.010                                                         |
| G416 USGS TEST HOLE           | 1.4                                                 | 8.0                                             | 14                                            | 6.8                                                 | <.10                                               | 33                                                | --                                                                 | 66                                                                  | .18                                                           | .010                                                          |
| G417 USGS TEST HOLE           | .50                                                 | 4.0                                             | .3                                            | 32                                                  | <.10                                               | 8.8                                               | 74                                                                 | 65                                                                  | .78                                                           | .010                                                          |
| K314 USGS TEST HOLE           | 1.3                                                 | 12                                              | 3.2                                           | 26                                                  | <.10                                               | 26                                                | 96                                                                 | 83                                                                  | --                                                            | <.010                                                         |
| K315 USGS TEST HOLE           | .10                                                 | 12                                              | 10                                            | 6.3                                                 | <.10                                               | 5.8                                               | 46                                                                 | 43                                                                  | --                                                            | --                                                            |



## SHALLOW AQUIFER CONTAMINATION PROJECT--Continued

| LOCAL<br>IDENT-<br>I-<br>FIER | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) | ALUM-<br>INUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AL) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR) |
|-------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|-----------------------------------------------------|
| HARRISON                      |                                                               |                                                               |                                                               |                                                                              |                                                      |                                                     |                                              |                                              |                                              |                                                     |
| B170 JAMES L ROUSE            | <.10                                                          | .100                                                          | .80                                                           | .90                                                                          | .470                                                 | <10                                                 | 1                                            | 160                                          | --                                           | <1                                                  |
| B172 USGS TEST HOLE           | <.10                                                          | .020                                                          | .58                                                           | .60                                                                          | <.010                                                | 40                                                  | <1                                           | 49                                           | 2                                            | <1                                                  |
| B173 USGS TEST HOLE           | .22                                                           | <.010                                                         | --                                                            | .10                                                                          | <.010                                                | <10                                                 | <1                                           | 26                                           | 4                                            | <1                                                  |
| B174 USGS TEST HOLE           | <.10                                                          | .020                                                          | .18                                                           | .20                                                                          | <.010                                                | <10                                                 | 4                                            | 63                                           | 3                                            | 1                                                   |
| C272 SHAW                     | 1.4<br>--                                                     | .130<br>--                                                    | .57<br>--                                                     | .70<br>--                                                                    | <.010<br>--                                          | <10<br>--                                           | <1<br>--                                     | 57<br>--                                     | 11<br>--                                     | <1<br>--                                            |
| C279 USGS TEST HOLE           | <.10                                                          | .280                                                          | .62                                                           | .90                                                                          | .220                                                 | 20                                                  | <1                                           | 79                                           | 8                                            | <1                                                  |
| C280 USGS TEST HOLE           | .11                                                           | <.010                                                         | --                                                            | <.10                                                                         | <.010                                                | 10                                                  | <1                                           | 16                                           | 2                                            | <1                                                  |
| C281 USGS TEST HOLE           | <.10                                                          | <.010                                                         | --                                                            | <.10                                                                         | <.010                                                | 20                                                  | <1                                           | 20                                           | 3                                            | <1                                                  |
| C282 USGS TEST HOLE           | 4.8                                                           | <.010                                                         | --                                                            | .40                                                                          | <.010                                                | 10                                                  | <1                                           | 54                                           | 2                                            | <1                                                  |
| C283 USGS TEST HOLE           | <.10                                                          | <.010                                                         | --                                                            | .40                                                                          | <.010                                                | 20                                                  | <1                                           | 17                                           | 1                                            | <1                                                  |
| F305 PATTEN                   | .11                                                           | <.010                                                         | --                                                            | .20                                                                          | .030                                                 | 30                                                  | <1                                           | 20                                           | 13                                           | <1                                                  |
| F313 USGS TEST HOLE           | <.10                                                          | --                                                            | --                                                            | --                                                                           | <.010                                                | 50                                                  | <1                                           | 32                                           | 3                                            | 1                                                   |
| F314 USGS TEST HOLE           | <.10                                                          | --                                                            | --                                                            | --                                                                           | .030                                                 | <10                                                 | <1                                           | 18                                           | <2                                           | <1                                                  |
| G415 USGS TEST HOLE           | <.10                                                          | <.010                                                         | --                                                            | .10                                                                          | <.010                                                | <10                                                 | <1                                           | 23                                           | 1                                            | <1                                                  |
| G416 USGS TEST HOLE           | .19                                                           | .030                                                          | .47                                                           | .50                                                                          | <.010                                                | 150                                                 | <1                                           | 19                                           | 2                                            | <1                                                  |
| G417 USGS TEST HOLE           | .79                                                           | <.010                                                         | --                                                            | .70                                                                          | <.010                                                | 60                                                  | <1                                           | 86                                           | 13                                           | <1                                                  |
| K314 USGS TEST HOLE           | <.10                                                          | .210                                                          | .59                                                           | .80                                                                          | <.010                                                | --                                                  | --                                           | --                                           | --                                           | --                                                  |
| K315 USGS TEST HOLE           | --                                                            | --                                                            | --                                                            | --                                                                           | .070                                                 | 10                                                  | <1                                           | 14                                           | 3                                            | <1                                                  |

QUALITY OF GROUND WATER  
SHALLOW AQUIFER CONTAMINATION PROJECT--Continued

| LOCAL<br>IDENT-<br>I-<br>FIER | CHRO-<br>MIUM,<br>HEXA-<br>VALENT,<br>DIS.<br>(UG/L<br>AS CR) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN) | CARBON,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS C) | CYANIDE<br>DIS-<br>SOLVED<br>(MG/L<br>AS CN) |
|-------------------------------|---------------------------------------------------------------|----------------------------------------------|--------------------------------------------|--------------------------------------------|------------------------------------------------------|----------------------------------------------|----------------------------------------------|--------------------------------------------|--------------------------------------------------------|----------------------------------------------|
| HARRISON                      |                                                               |                                              |                                            |                                            |                                                      |                                              |                                              |                                            |                                                        |                                              |
| B170 JAMES L ROUSE            | <1                                                            | 1                                            | 35                                         | 4                                          | 530                                                  | <.1                                          | 1                                            | 21                                         | 1.3                                                    | <.01                                         |
| B172 USGS TEST HOLE           | <1                                                            | 4                                            | 56                                         | 2                                          | 74                                                   | <.1                                          | 3                                            | 11                                         | 1.3                                                    | <.01                                         |
| B173 USGS TEST HOLE           | <1                                                            | 3                                            | 9                                          | 1                                          | 4                                                    | <.1                                          | 4                                            | 18                                         | --                                                     | <.01                                         |
| B174 USGS TEST HOLE           | <1                                                            | 1                                            | 2000                                       | 2                                          | 36                                                   | <.1                                          | 2                                            | 24                                         | 1.5                                                    | <.01                                         |
| C272 SHAW                     | <1<br>--                                                      | 310<br>--                                    | 1600<br>--                                 | 12<br>--                                   | 36<br>--                                             | <.1<br>--                                    | 4<br>--                                      | 120<br>--                                  | --<br>--                                               | <.01<br>--                                   |
| C279 USGS TEST HOLE           | <1                                                            | 2                                            | 790                                        | 5                                          | 50                                                   | <.1                                          | 2                                            | 21                                         | 5.5                                                    | <.01                                         |
| C280 USGS TEST HOLE           | <1                                                            | 1                                            | 5                                          | 1                                          | 6                                                    | <.1                                          | 1                                            | 7                                          | 2.7                                                    | <.01                                         |
| C281 USGS TEST HOLE           | <1                                                            | 3                                            | 9                                          | 2                                          | 8                                                    | <.1                                          | 3                                            | 16                                         | 1.7                                                    | <.01                                         |
| C282 USGS TEST HOLE           | <1                                                            | 7                                            | 230                                        | 2                                          | 77                                                   | <.1                                          | 1                                            | 14                                         | .80                                                    | --                                           |
| C283 USGS TEST HOLE           | <1                                                            | 5                                            | 15                                         | 1                                          | 10                                                   | <.1                                          | 2                                            | 15                                         | --                                                     | <.01                                         |
| F305 PATTEN                   | <1                                                            | 5                                            | 43                                         | 3                                          | 16                                                   | <.1                                          | 6                                            | 110                                        | 1.1                                                    | <.01                                         |
| F313 USGS TEST HOLE           | <1                                                            | 4                                            | 330                                        | 1                                          | 25                                                   | .1                                           | 3                                            | 28                                         | --                                                     | <.01                                         |
| F314 USGS TEST HOLE           | <1                                                            | 4                                            | 7                                          | <1                                         | 5                                                    | <.1                                          | 2                                            | 11                                         | --                                                     | <.01                                         |
| G415 USGS TEST HOLE           | <1                                                            | 2                                            | 15                                         | 1                                          | 15                                                   | <.1                                          | 3                                            | 9                                          | 1.1                                                    | <.01                                         |
| G416 USGS TEST HOLE           | <1                                                            | 32                                           | 280                                        | 5                                          | 18                                                   | .4                                           | 3                                            | 79                                         | 2.9                                                    | <.01                                         |
| G417 USGS TEST HOLE           | <1                                                            | 8                                            | 22                                         | 6                                          | 25                                                   | <.1                                          | 3                                            | 20                                         | --                                                     | <.01                                         |
| K314 USGS TEST HOLE           | --                                                            | --                                           | 760                                        | --                                         | 37                                                   | --                                           | --                                           | --                                         | 2.4                                                    | --                                           |
| K315 USGS TEST HOLE           | <1                                                            | 2                                            | 5                                          | 3                                          | 38                                                   | .3                                           | 1                                            | 33                                         | --                                                     | <.01                                         |

## SHALLOW AQUIFER CONTAMINATION PROJECT--Continued

| LOCAL<br>IDENT-<br>I-<br>FIER | BENZENE<br>TOTAL<br>(UG/L) | CHLORO-<br>DI-<br>BROMO-<br>METHANE<br>TOTAL<br>(UG/L) | BROM-<br>OFORM<br>TOTAL<br>(UG/L) | CARBON-<br>TETRA-<br>CHLO-<br>RIDE<br>TOTAL<br>(UG/L) | CHLORO-<br>BENZENE<br>TOTAL<br>(UG/L) | CHLORO-<br>ETHANE<br>TOTAL<br>(UG/L) | 2-<br>CHLORO-<br>ETHYL-<br>VINYL-<br>ETHER<br>TOTAL<br>(UG/L) | CHLORO-<br>FORM<br>TOTAL<br>(UG/L) | DI-<br>CHLORO-<br>BROMO-<br>METHANE<br>TOTAL<br>(UG/L) | DI-<br>CHLORO-<br>DI-<br>FLUORO-<br>METHANE<br>TOTAL<br>(UG/L) |
|-------------------------------|----------------------------|--------------------------------------------------------|-----------------------------------|-------------------------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------------------------------|------------------------------------|--------------------------------------------------------|----------------------------------------------------------------|
| HARRISON                      |                            |                                                        |                                   |                                                       |                                       |                                      |                                                               |                                    |                                                        |                                                                |
| B170 JAMES L ROUSE            | <3.0                       | <3.0                                                   | <3.0                              | <3.0                                                  | <3.0                                  | <3.0                                 | <3.0                                                          | <3                                 | <3.0                                                   | <3.0                                                           |
| B172 USGS TEST HOLE           | <3.0                       | <3.0                                                   | <3.0                              | <3.0                                                  | <3.0                                  | <3.0                                 | <3.0                                                          | <3                                 | <3.0                                                   | <3.0                                                           |
| B173 USGS TEST HOLE           | <3.0                       | <3.0                                                   | <3.0                              | <3.0                                                  | <3.0                                  | <3.0                                 | <3.0                                                          | <3                                 | <3.0                                                   | <3.0                                                           |
| B174 USGS TEST HOLE           | <3.0                       | <3.0                                                   | <3.0                              | <3.0                                                  | <3.0                                  | <3.0                                 | <3.0                                                          | <3                                 | <3.0                                                   | <3.0                                                           |
| C272 SHAW                     | --<br><3.0                 | --<br><3.0                                             | --<br><3.0                        | --<br><3.0                                            | --<br><3.0                            | --<br><3.0                           | --<br><3.0                                                    | --<br><3                           | --<br><3.0                                             | --<br><3.0                                                     |
| C279 USGS TEST HOLE           | <3.0                       | <3.0                                                   | <3.0                              | <3.0                                                  | <3.0                                  | <3.0                                 | <3.0                                                          | <3                                 | <3.0                                                   | <3.0                                                           |
| C280 USGS TEST HOLE           | <3.0                       | <3.0                                                   | <3.0                              | <3.0                                                  | <3.0                                  | <3.0                                 | <3.0                                                          | <3                                 | <3.0                                                   | <3.0                                                           |
| C281 USGS TEST HOLE           | <3.0                       | <3.0                                                   | <3.0                              | <3.0                                                  | <3.0                                  | <3.0                                 | <3.0                                                          | <3                                 | <3.0                                                   | <3.0                                                           |
| C282 USGS TEST HOLE           | <3.0                       | <3.0                                                   | <3.0                              | <3.0                                                  | <3.0                                  | <3.0                                 | <3.0                                                          | <3                                 | <3.0                                                   | <3.0                                                           |
| C283 USGS TEST HOLE           | <3.0                       | <3.0                                                   | <3.0                              | <3.0                                                  | <3.0                                  | <3.0                                 | <3.0                                                          | <3                                 | <3.0                                                   | <3.0                                                           |
| F305 PATTEN                   | <3.0                       | <3.0                                                   | <3.0                              | <3.0                                                  | <3.0                                  | <3.0                                 | <3.0                                                          | <3                                 | <3.0                                                   | <3.0                                                           |
| F313 USGS TEST HOLE           | <3.0                       | <3.0                                                   | <3.0                              | <3.0                                                  | <3.0                                  | <3.0                                 | <3.0                                                          | <3                                 | <3.0                                                   | <3.0                                                           |
| F314 USGS TEST HOLE           | <3.0                       | <3.0                                                   | <3.0                              | <3.0                                                  | <3.0                                  | <3.0                                 | <3.0                                                          | <3                                 | <3.0                                                   | <3.0                                                           |
| G415 USGS TEST HOLE           | --                         | --                                                     | --                                | --                                                    | --                                    | --                                   | --                                                            | --                                 | --                                                     | --                                                             |
| G416 USGS TEST HOLE           | <3.0                       | <3.0                                                   | <3.0                              | <3.0                                                  | <3.0                                  | <3.0                                 | <3.0                                                          | <3                                 | <3.0                                                   | <3.0                                                           |
| G417 USGS TEST HOLE           | <3.0                       | <3.0                                                   | <3.0                              | <3.0                                                  | <3.0                                  | <3.0                                 | <3.0                                                          | <3                                 | <3.0                                                   | <3.0                                                           |
| K314 USGS TEST HOLE           | <3.0                       | <3.0                                                   | <3.0                              | <3.0                                                  | <3.0                                  | <3.0                                 | <3.0                                                          | <3                                 | <3.0                                                   | <3.0                                                           |
| K315 USGS TEST HOLE           | <3.0                       | <3.0                                                   | <3.0                              | <3.0                                                  | <3.0                                  | <3.0                                 | <3.0                                                          | <3                                 | <3.0                                                   | <3.0                                                           |

[illegible]





## QUALITY OF GROUND WATER

## SHALLOW AQUIFER CONTAMINATION PROJECT--Continued

| LOCAL<br>IDENT-<br>I-<br>FIER | PCB,<br>TOTAL<br>(UG/L) | NAPH-<br>THA-<br>LENES,<br>POLY-<br>CHLOR.<br>TOTAL<br>(UG/L) | ALDRIN,<br>TOTAL<br>(UG/L) | CHLOR-<br>DANE,<br>TOTAL<br>(UG/L) | DDD,<br>TOTAL<br>(UG/L) | DDE,<br>TOTAL<br>(UG/L) | DDT,<br>TOTAL<br>(UG/L) | DI-<br>AZINON,<br>TOTAL<br>(UG/L) | DI-<br>ELDRIN,<br>TOTAL<br>(UG/L) | ENDO-<br>SULFAN,<br>TOTAL<br>(UG/L) |
|-------------------------------|-------------------------|---------------------------------------------------------------|----------------------------|------------------------------------|-------------------------|-------------------------|-------------------------|-----------------------------------|-----------------------------------|-------------------------------------|
| HARRISON                      |                         |                                                               |                            |                                    |                         |                         |                         |                                   |                                   |                                     |
| B173 USGS TEST HOLE           | <.1                     | <.10                                                          | <.001                      | <.1                                | <.001                   | <.001                   | <.001                   | <.01                              | <.001                             | <.001                               |
| C283 USGS TEST HOLE           | <.1                     | <.10                                                          | <.001                      | <.1                                | <.001                   | <.001                   | <.001                   | <.01                              | <.001                             | <.001                               |
| F314 USGS TEST HOLE           | <.1                     | <.10                                                          | <.001                      | <.1                                | <.001                   | <.001                   | <.001                   | <.01                              | <.001                             | <.001                               |
| K315 USGS TEST HOLE           | <.1                     | <.10                                                          | <.010                      | <.1                                | <.010                   | <.010                   | <.010                   | --                                | <.010                             | <.010                               |

| LOCAL<br>IDENT-<br>I-<br>FIER | ENDRIN,<br>TOTAL<br>(UG/L) | ETHION,<br>TOTAL<br>(UG/L) | HEPTA-<br>CHLOR,<br>TOTAL<br>(UG/L) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOTAL<br>(UG/L) | LINDANE<br>TOTAL<br>(UG/L) | MALA-<br>THION,<br>TOTAL<br>(UG/L) | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>(UG/L) | METHYL<br>PARA-<br>THION,<br>TOTAL<br>(UG/L) | METHYL<br>TRI-<br>THION,<br>TOTAL<br>(UG/L) | MIREX,<br>TOTAL<br>(UG/L) |
|-------------------------------|----------------------------|----------------------------|-------------------------------------|-----------------------------------------------|----------------------------|------------------------------------|--------------------------------------------|----------------------------------------------|---------------------------------------------|---------------------------|
| HARRISON                      |                            |                            |                                     |                                               |                            |                                    |                                            |                                              |                                             |                           |
| B173 USGS TEST HOLE           | <.001                      | <.01                       | <.001                               | <.001                                         | <.001                      | <.01                               | <.01                                       | <.01                                         | <.01                                        | <.01                      |
| C283 USGS TEST HOLE           | <.001                      | <.01                       | <.001                               | <.001                                         | <.001                      | <.01                               | <.01                                       | <.01                                         | <.01                                        | <.01                      |
| F314 USGS TEST HOLE           | <.001                      | <.01                       | <.001                               | <.001                                         | <.001                      | <.01                               | <.01                                       | <.01                                         | <.01                                        | <.01                      |
| K315 USGS TEST HOLE           | <.010                      | --                         | <.010                               | <.010                                         | <.010                      | --                                 | <.01                                       | --                                           | --                                          | <.01                      |

| LOCAL<br>IDENT-<br>I-<br>FIER | PARA-<br>THION,<br>TOTAL<br>(UG/L) | PER-<br>THANE<br>TOTAL<br>(UG/L) | TOX-<br>APHENE,<br>TOTAL<br>(UG/L) | TOTAL<br>TRI-<br>THION<br>(UG/L) | 2,4-D,<br>TOTAL<br>(UG/L) | 2, 4-DP<br>TOTAL<br>(UG/L) | 2,4,5-T<br>TOTAL<br>(UG/L) | DICAMBA<br>(MED-<br>IBEN)<br>(BAN-<br>VEL D)<br>TOTAL<br>(UG/L) | PICLO-<br>RAM<br>(TOR-<br>DON)<br>(AMDON)<br>TOTAL<br>(UG/L) | SILVEX,<br>TOTAL<br>(UG/L) |
|-------------------------------|------------------------------------|----------------------------------|------------------------------------|----------------------------------|---------------------------|----------------------------|----------------------------|-----------------------------------------------------------------|--------------------------------------------------------------|----------------------------|
| HARRISON                      |                                    |                                  |                                    |                                  |                           |                            |                            |                                                                 |                                                              |                            |
| B173 USGS TEST HOLE           | <.01                               | <.1                              | <1                                 | <.01                             | <.01                      | <.01                       | <.01                       | <.010                                                           | <.010                                                        | <.01                       |
| C283 USGS TEST HOLE           | <.01                               | <.1                              | <1                                 | <.01                             | <.01                      | <.01                       | <.01                       | <.010                                                           | <.010                                                        | <.01                       |
| F314 USGS TEST HOLE           | <.01                               | <.1                              | <1                                 | <.01                             | <.01                      | <.01                       | <.01                       | <.010                                                           | <.010                                                        | <.01                       |
| K315 USGS TEST HOLE           | --                                 | <.1                              | <1                                 | --                               | <.01                      | <.01                       | <.01                       | .040                                                            | <.010                                                        | <.01                       |

[illegible]

## QUALITY OF GROUND WATER

## SHALLOW AQUIFER CONTAMINATION PROJECT--Continued

| LOCAL<br>IDENT-<br>I-<br>FIER | N-NITRO-<br>SODI-<br>PHENYL-<br>LAMINE<br>TOTAL<br>(UG/L) | N-<br>NITRO-<br>SODI-N-<br>PROPYL-<br>AMINE<br>TOTAL<br>(UG/L) | PHENAN-<br>THRENE<br>TOTAL<br>(UG/L) | PYRENE<br>TOTAL<br>(UG/L) | 2,3,7,8<br>TETRACH-<br>LORODI-<br>BENZO-P<br>-DIOXIN<br>TOTAL<br>(UG/L) | 1,2,4-<br>TRI-<br>CHLORO-<br>BENZENE<br>TOTAL<br>(UG/L) | 2-<br>CHLORO-<br>PHENOL<br>TOTAL<br>(UG/L) | 2,4-DI-<br>CHLORO-<br>PHENOL<br>TOTAL<br>(UG/L) | 2,4-DI-<br>METHYL-<br>PHENOL<br>TOTAL<br>(UG/L) | 4,6-<br>DINITRO-<br>-ORTHO-<br>CRESOL<br>TOTAL<br>(UG/L) |
|-------------------------------|-----------------------------------------------------------|----------------------------------------------------------------|--------------------------------------|---------------------------|-------------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------|-------------------------------------------------|-------------------------------------------------|----------------------------------------------------------|
| HARRISON                      |                                                           |                                                                |                                      |                           |                                                                         |                                                         |                                            |                                                 |                                                 |                                                          |
| C283 USGS TEST HOLE           | <1.0                                                      | <1.0                                                           | <1.0                                 | <1.0                      | <1.0                                                                    | <1.0                                                    | <1.0                                       | <1.0                                            | <1.0                                            | <1.0                                                     |
| K315 USGS TEST HOLE           | <1.0                                                      | <1.0                                                           | <1.0                                 | <1.0                      | <1.0                                                                    | <1.0                                                    | <1.0                                       | <1.0                                            | <1.0                                            | <1.0                                                     |

| LOCAL<br>IDENT-<br>I-<br>FIER | 2,4,-<br>DI-<br>NITRO-<br>PHENOL<br>TOTAL<br>(UG/L) | 2-<br>NITRO-<br>PHENOL<br>TOTAL<br>(UG/L) | 4-<br>NITRO-<br>PHENOL<br>TOTAL<br>(UG/L) | PARA-<br>CHLORO-<br>META<br>CRESOL<br>TOTAL<br>(UG/L) | PENTA-<br>CHLORO-<br>PHENOL<br>TOTAL<br>(UG/L) | PHENOL<br>(C6H-<br>5OH)<br>TOTAL<br>(UG/L) | 2,4,6-<br>TRI-<br>CHLORO-<br>PHENOL<br>TOTAL<br>(UG/L) | AROCLOR<br>1016<br>PCB<br>TOTAL<br>(UG/L) | AROCLOR<br>1221<br>PCB<br>TOTAL<br>(UG/L) | AROCLOR<br>1232<br>PCB<br>TOTAL<br>(UG/L) |
|-------------------------------|-----------------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------------------|------------------------------------------------|--------------------------------------------|--------------------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|
| HARRISON                      |                                                     |                                           |                                           |                                                       |                                                |                                            |                                                        |                                           |                                           |                                           |
| C283 USGS TEST HOLE           | <1.0                                                | <1.0                                      | <1.0                                      | <1.0                                                  | <1.0                                           | <1.0                                       | <1.0                                                   | <.1                                       | <.10                                      | <.10                                      |
| K315 USGS TEST HOLE           | <1.0                                                | <1.0                                      | <1.0                                      | <1.0                                                  | <1.0                                           | <1.0                                       | <1.0                                                   | <.1                                       | <.10                                      | <.10                                      |

| LOCAL<br>IDENT-<br>I-<br>FIER | AROCLOR<br>1242<br>PCB<br>TOTAL<br>(UG/L) | AROCLOR<br>1248<br>PCB<br>TOTAL<br>(UG/L) | AROCLOR<br>1254<br>PCB<br>TOTAL<br>(UG/L) | AROCLOR<br>1260<br>PCB<br>TOTAL<br>(UG/L) |
|-------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|
| HARRISON                      |                                           |                                           |                                           |                                           |
| C283 USGS TEST HOLE           | <.1                                       | <.1                                       | <.1                                       | <.1                                       |
| K315 USGS TEST HOLE           | <.1                                       | <.1                                       | <.1                                       | <.1                                       |

## QUALITY OF GROUND WATER

441

## TENNESSEE-TOMBIGBEE WATERWAY PROJECT

WATER QUALITY DATA, DECEMBER 1984 TO SEPTEMBER 1985

| LOCAL<br>IDENT-<br>IFIER  | STATION         | NUMBER   | GEO-<br>LOGIC<br>UNIT | DATE<br>OF<br>SAMPLE | TIME | SAMPLE<br>SOURCE | SAM-<br>PLING<br>CONDI-<br>TION | DEPTH<br>BELOW<br>LAND<br>SURFACE<br>(WATER<br>LEVEL)<br>(FEET) | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET) | ELEV.<br>OF LAND<br>SURFACE<br>DATUM<br>(FT.<br>ABOVE<br>NGVD) |
|---------------------------|-----------------|----------|-----------------------|----------------------|------|------------------|---------------------------------|-----------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------|
| ITAWAMBA                  |                 |          |                       |                      |      |                  |                                 |                                                                 |                                         |                                                                |
| G070 USCE GW104C          | 341621088255001 | 110ALVM  | 06-03-85              | 1432                 | 26   | .10              | -0.94                           | 24.00                                                           | 260.00                                  |                                                                |
| LOWNDES                   |                 |          |                       |                      |      |                  |                                 |                                                                 |                                         |                                                                |
| C100 USCE 114B            | 333355088282502 | 110TRCS  | 06-07-85              | 0815                 | 33   | 15.00            | 5.56                            | 47.00                                                           | 170.00                                  |                                                                |
| C101 USCE 114C            | 333355088282503 | 211EUTW  | 06-07-85              | 0755                 | 33   | 15.00            | 8.72                            | 92.00                                                           | 170.00                                  |                                                                |
| MONROE                    |                 |          |                       |                      |      |                  |                                 |                                                                 |                                         |                                                                |
| C057 USCE 89A             | 340409088243801 | 211GORD  | 06-03-85              | 1740                 | 26   | .10              | 7.76                            | 166.00                                                          | 245.00                                  |                                                                |
| C058 USCE 89B             | 340409088243802 | 211MCSN  | 06-03-85              | 1640                 | 26   | .10              | -0.70                           | 45.00                                                           | 245.00                                  |                                                                |
| C060 USCE 96A             | 340018088270701 | 211GORD  | 06-06-85              | 1545                 | 33   | 15.00            | 31.37                           | 164.00                                                          | 253.00                                  |                                                                |
| L063 USCE 101A            | 335117088332801 | 211EUTW  | 06-06-85              | 1540                 | 33   | 15.00            | 20.39                           | 90.00                                                           | 202.00                                  |                                                                |
| L069 USCE 101B            | 335117088332802 | 110TRCS  | 06-07-85              | 0915                 | 33   | 15.00            | 7.34                            | 20.00                                                           | 202.00                                  |                                                                |
| PRENTISS                  |                 |          |                       |                      |      |                  |                                 |                                                                 |                                         |                                                                |
| B034 THRASHER W A         | 344251088323001 | 211EUTW  | 06-05-85              | 0915                 | 26   | .10              | --                              | 514.00                                                          | 520.00                                  |                                                                |
| B035 NEW CANDLER W A      | 344217088302801 | 211EUTW  | 06-05-85              | 1015                 | 26   | .10              | --                              | 460.00                                                          | 540.00                                  |                                                                |
| F011 BOONEVILLE           | 343949088335301 | 211EUTWL | 06-05-85              | 1130                 | 26   | .10              | --                              | 486.00                                                          | 495.00                                  |                                                                |
| M019 USCE 52A             | 342911088205201 | 211GORD  | 06-04-85              | 0927                 | 33   | 15.00            | 6.67                            | 40.00                                                           | 324.00                                  |                                                                |
| TISHOMINGO                |                 |          |                       |                      |      |                  |                                 |                                                                 |                                         |                                                                |
| D041 USCE 12B             | 344638088200103 | 211EUTWR | 06-05-85              | 1515                 | 26   | .10              | 62.96                           | 150.00                                                          | 485.00                                  |                                                                |
| D042 USCE 12C             | 344638088200104 | 211EUTWR | 06-05-85              | 1625                 | 26   | .10              | 55.91                           | 88.50                                                           | 485.00                                  |                                                                |
| D052 BURNSVILLE           | 345033088192201 | 300PLZC  | 06-05-85              | 1330                 | 26   | .10              | --                              | 280.00                                                          | 520.00                                  |                                                                |
| E039 MIDWAY-PLEASANT HILL | 344711088114802 | 211GORD  | 06-06-85              | 0930                 | 26   | .10              | --                              | 400.00                                                          | 680.00                                  |                                                                |
| G040 USCE 22B             | 344218088184302 | 211EUTWR | 06-05-85              | 1930                 | 26   | .10              | 174.07                          | 240.00                                                          | 625.00                                  |                                                                |
| J014 USCE 34B             | 344053088161203 | 211EUTWR | 06-04-85              | 1600                 | 26   | .10              | 73.81                           | 134.00                                                          | 560.00                                  |                                                                |
| J018 USCE 31A             | 344017088180402 | 211GORD  | 06-04-85              | 1639                 | 26   | .10              | 34.87                           | 178.00                                                          | 473.00                                  |                                                                |
| J019 USCE 31B             | 344017088180403 | 211EUTWR | 06-04-85              | 1715                 | 26   | .10              | 11.28                           | 74.00                                                           | 473.00                                  |                                                                |

QUALITY OF GROUND WATER  
TENNESSEE-TOMBIGBEE WATERWAY PROJECT--Continued

| LOCAL<br>IDENT-<br>I-<br>FIER | PUMP<br>OR FLOW<br>PERIOD<br>PRIOR<br>TO SAM-<br>PLING<br>(MIN) | FLOW<br>RATE,<br>INSTAN-<br>TANEOUS<br>(GPM) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | HARD-<br>NESS<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CAC03) | ACIDITY<br>(MG/L<br>AS H) | ACIDITY<br>(MG/L<br>AS<br>CAC03) |
|-------------------------------|-----------------------------------------------------------------|----------------------------------------------|---------------------------------------------------|--------------------------------|-----------------------------|----------------------------------------------|----------------------------------------|--------------------------------------------------------|---------------------------|----------------------------------|
| ITAWAMBA                      |                                                                 |                                              |                                                   |                                |                             |                                              |                                        |                                                        |                           |                                  |
| G070 USCE GW104C              | 30                                                              | 5.0                                          | 106                                               | 6.6                            | 17.5                        | 25                                           | 42                                     | 12                                                     | --                        | --                               |
| LOWNDES                       |                                                                 |                                              |                                                   |                                |                             |                                              |                                        |                                                        |                           |                                  |
| C100 USCE 114B                | 15                                                              | 3.0                                          | 88                                                | 6.4                            | 16.5                        | 20                                           | 22                                     | 0                                                      | --                        | --                               |
| C101 USCE 114C                | 30                                                              | 4.0                                          | 135                                               | 7.2                            | 17.0                        | 5                                            | 24                                     | 0                                                      | --                        | --                               |
| MONROE                        |                                                                 |                                              |                                                   |                                |                             |                                              |                                        |                                                        |                           |                                  |
| C057 USCE 89A                 | 45                                                              | 5.0                                          | 101                                               | 7.0                            | 17.5                        | 5                                            | 33                                     | 0                                                      | --                        | --                               |
| C058 USCE 89B                 | 45                                                              | 5.0                                          | 115                                               | 6.7                            | 18.0                        | 15                                           | 32                                     | 0                                                      | --                        | --                               |
| C060 USCE 96A                 | 60                                                              | 3.0                                          | 46                                                | 6.2                            | 18.5                        | 45                                           | 19                                     | 7                                                      | --                        | --                               |
| L063 USCE 101A                | 30                                                              | 4.0                                          | 160                                               | 7.8                            | 18.0                        | 5                                            | 64                                     | 0                                                      | --                        | --                               |
| L069 USCE 101B                | 15                                                              | 3.0                                          | 110                                               | 6.0                            | 18.0                        | 5                                            | 30                                     | 13                                                     | --                        | --                               |
| PRENTISS                      |                                                                 |                                              |                                                   |                                |                             |                                              |                                        |                                                        |                           |                                  |
| B034 THRASHER W A             | 60                                                              | 200                                          | 279                                               | 7.8                            | 19.0                        | <1                                           | 120                                    | 4                                                      | .2                        | 9.9                              |
| B035 NEW CANDLER W A          | 30                                                              | 125                                          | 278                                               | 7.6                            | 18.5                        | 15                                           | 120                                    | 6                                                      | .2                        | 9.9                              |
| F011 BOONEVILLE               | 15                                                              | --                                           | 300                                               | 7.7                            | 18.5                        | 5                                            | 130                                    | 4                                                      | .2                        | 9.9                              |
| M019 USCE 52A                 | 50                                                              | 2.0                                          | 34                                                | 5.8                            | 16.5                        | 15                                           | 10                                     | 2                                                      | --                        | --                               |
| TISHOMINGO                    |                                                                 |                                              |                                                   |                                |                             |                                              |                                        |                                                        |                           |                                  |
| D041 USCE 12B                 | 60                                                              | 10                                           | 131                                               | 6.5                            | 17.5                        | 20                                           | 51                                     | 14                                                     | .4                        | 20                               |
| D042 USCE 12C                 | 40                                                              | 10                                           | 120                                               | 6.4                            | 17.5                        | 10                                           | 40                                     | 0                                                      | .3                        | 15                               |
| D052 BURNSVILLE               | 30                                                              | --                                           | 61                                                | 6.5                            | 17.0                        | 25                                           | 21                                     | 0                                                      | .2                        | 9.9                              |
| E039 MIDWAY-PLEASANT HILL     | 30                                                              | 495                                          | 56                                                | 6.3                            | 17.5                        | 10                                           | 12                                     | 0                                                      | .4                        | 20                               |
| G040 USCE 22B                 | 30                                                              | 10                                           | 92                                                | 6.1                            | 17.0                        | 5                                            | 30                                     | 3                                                      | .4                        | 20                               |
| J014 USCE 34B                 | 45                                                              | 10                                           | 32                                                | 5.8                            | 16.0                        | 5                                            | 8                                      | 0                                                      | .2                        | 9.9                              |
| J018 USCE 31A                 | 45                                                              | 10                                           | 130                                               | 9.3                            | 18.5                        | 10                                           | 10                                     | 0                                                      | .1                        | 5.0                              |
| J019 USCE 31B                 | 30                                                              | 10                                           | 49                                                | 5.8                            | 18.5                        | <1                                           | 15                                     | 0                                                      | .2                        | 9.9                              |



## QUALITY OF GROUND WATER

443

## TENNESSEE-TOMBIGBEE WATERWAY PROJECT--Continued

| LOCAL<br>IDENT-<br>I-<br>FIER | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LITY<br>LAB<br>(MG/L<br>AS<br>CACO3) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) |
|-------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|
| ITAWAMBA                      |                                              |                                                      |                                              |                   |                                         |                                                     |                                               |                                               |                                                     |                                                    |
| G070 USCE GW104C              | 12                                           | 2.9                                                  | 7.8                                          | 28                | .5                                      | 1.5                                                 | 30                                            | 3.1                                           | 9.7                                                 | .10                                                |
| LOWNDES                       |                                              |                                                      |                                              |                   |                                         |                                                     |                                               |                                               |                                                     |                                                    |
| C100 USCE 114B                | 7.1                                          | 1.1                                                  | 5.7                                          | 34                | .5                                      | 1.4                                                 | 23                                            | 7.6                                           | 2.1                                                 | .30                                                |
| C101 USCE 114C                | 7.3                                          | 1.5                                                  | 18                                           | 59                | 2                                       | 2.2                                                 | 53                                            | 7.1                                           | 3.1                                                 | .30                                                |
| MONROE                        |                                              |                                                      |                                              |                   |                                         |                                                     |                                               |                                               |                                                     |                                                    |
| C057 USCE 89A                 | 7.7                                          | 3.4                                                  | 3.1                                          | 16                | .2                                      | 2.3                                                 | 41                                            | 3.0                                           | 3.9                                                 | .30                                                |
| C058 USCE 89B                 | 7.9                                          | 2.9                                                  | 3.8                                          | 19                | .3                                      | 2.6                                                 | 34                                            | 12                                            | 2.3                                                 | .20                                                |
| C060 USCE 96A                 | 4.7                                          | 1.8                                                  | 2.7                                          | 21                | .3                                      | 2.5                                                 | 12                                            | 18                                            | 2.7                                                 | .10                                                |
| L063 USCE 101A                | 19                                           | 4.1                                                  | 5.2                                          | 14                | .3                                      | 2.8                                                 | 69                                            | 2.2                                           | 2.6                                                 | <.10                                               |
| L069 USCE 101B                | 8.8                                          | 1.9                                                  | 6.4                                          | 31                | .5                                      | 1.4                                                 | 17                                            | 5.9                                           | 15                                                  | <.10                                               |
| PRENTISS                      |                                              |                                                      |                                              |                   |                                         |                                                     |                                               |                                               |                                                     |                                                    |
| B034 THRASHER W A             | 38                                           | 5.9                                                  | 7.2                                          | 11                | .3                                      | 2.9                                                 | 115                                           | 9.7                                           | 9.2                                                 | .10                                                |
| B035 NEW CANDLER W A          | 36                                           | 6.2                                                  | 8.3                                          | 13                | .4                                      | 3.4                                                 | 110                                           | 16                                            | 9.5                                                 | <.10                                               |
| F011 BOONEVILLE               | 41                                           | 7.0                                                  | 8.4                                          | 12                | .3                                      | 3.2                                                 | 127                                           | 14                                            | 9.2                                                 | .10                                                |
| M019 USCE 52A                 | 2.2                                          | 1.0                                                  | 2.0                                          | 29                | .3                                      | .80                                                 | 8.0                                           | 1.7                                           | 3.9                                                 | <.10                                               |
| TISHOMINGO                    |                                              |                                                      |                                              |                   |                                         |                                                     |                                               |                                               |                                                     |                                                    |
| D041 USCE 12B                 | 16                                           | 2.8                                                  | 4.2                                          | 14                | .3                                      | 2.8                                                 | 38                                            | 56                                            | 2.7                                                 | .20                                                |
| D042 USCE 12C                 | 12                                           | 2.5                                                  | 6.4                                          | 24                | .5                                      | 2.4                                                 | 47                                            | 5.0                                           | 2.4                                                 | .30                                                |
| D052 BURNSVILLE               | 5.8                                          | 1.7                                                  | 1.9                                          | 15                | .2                                      | 1.1                                                 | 21                                            | 6.6                                           | 2.5                                                 | .20                                                |
| E039 MIDWAY-PLEASANT HILL     | 2.6                                          | 1.3                                                  | 1.5                                          | 20                | .2                                      | 1.2                                                 | 15                                            | 5.6                                           | 1.2                                                 | .10                                                |
| G040 USCE 22B                 | 9.4                                          | 1.6                                                  | 3.5                                          | 19                | .3                                      | 1.5                                                 | 27                                            | 13                                            | 1.4                                                 | <.10                                               |
| J014 USCE 34B                 | 1.8                                          | .88                                                  | 1.5                                          | 26                | .2                                      | 1.1                                                 | 8.0                                           | 4.0                                           | .90                                                 | <.10                                               |
| J018 USCE 31A                 | 3.7                                          | .23                                                  | 17                                           | 73                | 2                                       | 3.0                                                 | 40                                            | 11                                            | 1.6                                                 | <.10                                               |
| J019 USCE 31B                 | 3.6                                          | 1.4                                                  | 2.6                                          | 25                | .3                                      | 1.4                                                 | 14                                            | 7.2                                           | 1.2                                                 | <.10                                               |

## QUALITY OF GROUND WATER

## TENNESSEE-TOMBIGBEE WATERWAY PROJECT--Continued

| LOCAL<br>IDENT-<br>IFIER  | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTITUENTS,<br>DIS-<br>SOLVED<br>(MG/L) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | IRON,<br>TOTAL<br>RECOVERABLE<br>(UG/L<br>AS FE) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>TOTAL<br>RECOVERABLE<br>(UG/L<br>AS MN) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |
|---------------------------|---------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------|--------------------------------------------|------------------------------------------------------------|------------------------------------------------------|
| ITAWAMBA                  |                                                   |                                                                    |                                                                |                                                               |                                                  |                                            |                                                            |                                                      |
| G070 USCE GW104C          | 16                                                | 73                                                                 | 98                                                             | .83                                                           | 60000                                            | 26000                                      | 1200                                                       | 960                                                  |
| LOWNDES                   |                                                   |                                                                    |                                                                |                                                               |                                                  |                                            |                                                            |                                                      |
| C100 USCE 114B            | 27                                                | 59                                                                 | 67                                                             | .41                                                           | 22000                                            | 1100                                       | 500                                                        | 240                                                  |
| C101 USCE 114C            | 22                                                | 101                                                                | 93                                                             | .23                                                           | 1700                                             | 28                                         | 160                                                        | 22                                                   |
| MONROE                    |                                                   |                                                                    |                                                                |                                                               |                                                  |                                            |                                                            |                                                      |
| C057 USCE 89A             | 7.6                                               | 58                                                                 | 61                                                             | .13                                                           | 17000                                            | 3800                                       | 1400                                                       | 1400                                                 |
| C058 USCE 89B             | 17                                                | 52                                                                 | 76                                                             | .10                                                           | 15000                                            | 5400                                       | 1400                                                       | 1100                                                 |
| C060 USCE 96A             | 11                                                | 29                                                                 | 67                                                             | <.10                                                          | 190000                                           | 16000                                      | 3900                                                       | 340                                                  |
| L063 USCE 101A            | 35                                                | 105                                                                | 110                                                            | .26                                                           | 1600                                             | 32                                         | 160                                                        | 100                                                  |
| L069 USCE 101B            | 19                                                | 74                                                                 | 69                                                             | .13                                                           | 43000                                            | 340                                        | 240                                                        | 140                                                  |
| PRENTISS                  |                                                   |                                                                    |                                                                |                                                               |                                                  |                                            |                                                            |                                                      |
| B034 THRASHER W A         | 15                                                | 164                                                                | 160                                                            | <.10                                                          | 60                                               | 39                                         | 90                                                         | 80                                                   |
| B035 NEW CANDLER W A      | 11                                                | 161                                                                | 160                                                            | <.10                                                          | 790                                              | 380                                        | 210                                                        | 190                                                  |
| F011 BOONEVILLE           | 11                                                | 176                                                                | 170                                                            | <.10                                                          | 280                                              | 190                                        | 160                                                        | 140                                                  |
| M019 USCE 52A             | 9.5                                               | 36                                                                 | 26                                                             | <.10                                                          | 5600                                             | 110                                        | 90                                                         | 91                                                   |
| TISHOMINGO                |                                                   |                                                                    |                                                                |                                                               |                                                  |                                            |                                                            |                                                      |
| D041 USCE 12B             | 40                                                | 154                                                                | 170                                                            | <.10                                                          | 19000                                            | 17000                                      | 700                                                        | 710                                                  |
| D042 USCE 12C             | 31                                                | 107                                                                | 91                                                             | <.10                                                          | 4100                                             | 910                                        | 370                                                        | 340                                                  |
| D052 BURNSVILLE           | 9.5                                               | 43                                                                 | 59                                                             | <.10                                                          | 16000                                            | 16000                                      | 1000                                                       | 970                                                  |
| E039 MIDWAY-PLEASANT HILL | 8.6                                               | 31                                                                 | 49                                                             | <.10                                                          | 18000                                            | 17000                                      | 1000                                                       | 990                                                  |
| G040 USCE 22B             | 30                                                | 90                                                                 | 78                                                             | <.10                                                          | 1300                                             | 1300                                       | 170                                                        | 150                                                  |
| J014 USCE 34B             | 20                                                | 22                                                                 | 35                                                             | <.10                                                          | 50                                               | 12                                         | 10                                                         | 7                                                    |
| J018 USCE 31A             | 18                                                | 77                                                                 | 79                                                             | <.10                                                          | 190                                              | 15                                         | 20                                                         | 2                                                    |
| J019 USCE 31B             | 29                                                | 35                                                                 | 57                                                             | <.10                                                          | 2300                                             | 2400                                       | 50                                                         | 50                                                   |

## TENNESSEE-TOMBIGBEE WATERWAY PROJECT--Continued

| LOCAL<br>IDENT-<br>IFIER               | STATION         | NUMBER | DATE<br>OF<br>SAMPLE | TIME | SAMPLE<br>SOURCE | SAM-<br>PLING<br>CONDI-<br>TION | DEPTH<br>BELOW<br>LAND<br>SURFACE<br>(WATER<br>LEVEL)<br>(FEET) | DEPTH<br>OF<br>WELL,<br>TOTAL<br>(FEET) | ELEV.<br>OF LAND<br>SURFACE<br>DATUM<br>(FT.<br>ABOVE<br>NGVD) | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) |
|----------------------------------------|-----------------|--------|----------------------|------|------------------|---------------------------------|-----------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------|---------------------------------------------------|
| TISHOMINGO                             |                 |        |                      |      |                  |                                 |                                                                 |                                         |                                                                |                                                   |
| B032 USCE 602A-A<br>DISPOSAL AREA WELL | 345428088161980 |        | 12-05-84             | 1145 | 1004             | .11                             | 25.91                                                           | 34.30                                   | 446.00                                                         | 607                                               |
|                                        |                 |        | 02-14-85             | 1215 | 1004             | .11                             | 24.87                                                           | 34.30                                   | 446.00                                                         | 568                                               |
|                                        |                 |        | 05-07-85             | 1135 | 1004             | .11                             | 24.92                                                           | 34.30                                   | 446.00                                                         | 524                                               |
|                                        |                 |        | 09-04-85             | 1115 | 1004             | .11                             | 27.09                                                           | 34.30                                   | 446.00                                                         | 100                                               |
| J070 USCE 1507-B<br>DISPOSAL AREA WELL | 344047088171981 |        | 12-05-84             | 1025 | 1004             | .11                             | 11.40                                                           | 19.00                                   | 488.00                                                         | 827                                               |
|                                        |                 |        | 02-14-85             | 1015 | 1004             | .11                             | 11.96                                                           | 19.00                                   | 488.00                                                         | 771                                               |
|                                        |                 |        | 05-07-85             | 1020 | 1004             | .11                             | 9.48                                                            | 19.00                                   | 488.00                                                         | 692                                               |
|                                        |                 |        | 09-04-85             | 0930 | 1004             | .11                             | 8.39                                                            | 19.00                                   | 488.00                                                         | 607                                               |
| J071 USCE 1704-A<br>DISPOSAL AREA WELL | 343855088155380 |        | 12-05-84             | 0920 | 1004             | .11                             | 21.44                                                           | 32.00                                   | 430.00                                                         | 612                                               |
|                                        |                 |        | 02-14-85             | 0900 | 1004             | .11                             | 21.39                                                           | 32.00                                   | 430.00                                                         | 588                                               |
|                                        |                 |        | 05-07-85             | 0910 | 1004             | .11                             | 20.55                                                           | 32.00                                   | 430.00                                                         | 539                                               |
|                                        |                 |        | 09-04-85             | 0815 | 1004             | .11                             | 21.06                                                           | 32.00                                   | 430.00                                                         | 450                                               |
| J072 USCE 1704-B<br>DISPOSAL AREA WELL | 343855088155381 |        | 12-05-84             | 0925 | 1004             | .11                             | 11.00                                                           | 21.00                                   | 440.00                                                         | 934                                               |
|                                        |                 |        | 02-14-85             | 0905 | 1004             | .11                             | 8.75                                                            | 21.00                                   | 440.00                                                         | 857                                               |
|                                        |                 |        | 05-07-85             | 0915 | 1004             | .11                             | 8.03                                                            | 21.00                                   | 440.00                                                         | 829                                               |
|                                        |                 |        | 09-04-85             | 0820 | 1004             | .11                             | 9.60                                                            | 21.00                                   | 440.00                                                         | 930                                               |

| LOCAL<br>IDENT-<br>IFIER | PH<br>(STAND-<br>ARD<br>UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | HARD-<br>NESS<br>(MG/L<br>AS<br>CAC03) | HARD-<br>NESS,<br>NONCAR-<br>BONATE<br>(MG/L<br>CAC03) | ACIDITY<br>(MG/L<br>AS H) | ACIDITY<br>(MG/L<br>AS<br>CAC03) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) |
|--------------------------|--------------------------------|-----------------------------|----------------------------------------------|----------------------------------------|--------------------------------------------------------|---------------------------|----------------------------------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|
| TISHOMINGO               |                                |                             |                                              |                                        |                                                        |                           |                                  |                                              |                                                      |                                              |
| B032 USCE 602A-A         | 5.3                            | 16.0                        | 40                                           | 49                                     | 0                                                      | 1.7                       | 84                               | 9.9                                          | 5.9                                                  | 3.2                                          |
|                          | 5.4                            | 17.0                        | 40                                           | 46                                     | 0                                                      | .4                        | 20                               | 9.7                                          | 5.4                                                  | 3.5                                          |
|                          | 6.0                            | 17.5                        | 15                                           | 40                                     | 0                                                      | .4                        | 20                               | 8.5                                          | 4.5                                                  | 4.9                                          |
|                          | 5.8                            | 18.5                        | 5                                            | 26                                     | 0                                                      | .7                        | 35                               | 4.6                                          | 3.5                                                  | 3.0                                          |
| J070 USCE 1507-B         | 4.7                            | 17.5                        | <1                                           | 290                                    | 260                                                    | 2.7                       | 134                              | 67                                           | 31                                                   | 9.7                                          |
|                          | 4.3                            | 15.0                        | <1                                           | 310                                    | 300                                                    | .1                        | 5.0                              | 69                                           | 34                                                   | 11                                           |
|                          | 5.3                            | 15.5                        | 5                                            | 290                                    | 240                                                    | .7                        | 35                               | 67                                           | 30                                                   | 12                                           |
|                          | 5.6                            | 22.0                        | 10                                           | 240                                    | 190                                                    | .6                        | 30                               | 55                                           | 26                                                   | 8.9                                          |
| J071 USCE 1704-A         | 4.2                            | 17.0                        | <1                                           | 210                                    | 200                                                    | 2.5                       | 124                              | 49                                           | 22                                                   | 15                                           |
|                          | 4.1                            | 16.5                        | <1                                           | 200                                    | --                                                     | 1.3                       | 65                               | 44                                           | 21                                                   | 12                                           |
|                          | 4.8                            | 17.5                        | 5                                            | 180                                    | 170                                                    | 1.1                       | 55                               | 41                                           | 18                                                   | 9.0                                          |
|                          | 4.7                            | 17.0                        | 10                                           | 150                                    | 150                                                    | .9                        | 45                               | 34                                           | 16                                                   | 9.7                                          |
| J072 USCE 1704-B         | 5.0                            | 16.0                        | <1                                           | 400                                    | 380                                                    | 1.5                       | 74                               | 110                                          | 30                                                   | 7.3                                          |
|                          | 4.8                            | 17.5                        | 5                                            | 340                                    | 320                                                    | .9                        | 45                               | 95                                           | 26                                                   | 8.5                                          |
|                          | 5.5                            | 15.5                        | 15                                           | 340                                    | 310                                                    | .7                        | 35                               | 98                                           | 24                                                   | 8.6                                          |
|                          | 5.7                            | 20.0                        | 5                                            | 360                                    | 350                                                    | .5                        | 25                               | 99                                           | 27                                                   | 7.2                                          |

QUALITY OF GROUND WATER  
TENNESSEE-TOMBIGBEE WATERWAY PROJECT--Continued

| LOCAL<br>IDENT-<br>I-<br>FIER | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | ALKA-<br>LITY<br>LAB<br>(MG/L<br>AS<br>CACO3) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SiO2) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L) | SOLIDS,<br>SUM OF<br>CONSTI-<br>TUENTS,<br>DIS-<br>SOLVED<br>(MG/L) |
|-------------------------------|-------------------|-----------------------------------------|-----------------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|
| TISHOMINGO                    |                   |                                         |                                                     |                                               |                                               |                                                     |                                                    |                                                   |                                                                    |                                                                     |
| B032 USCE 602A-A              | 12                | .2                                      | 1.5                                                 | 74                                            | 2.8                                           | 4.5                                                 | <.10                                               | 7.0                                               | 302                                                                | 210                                                                 |
|                               | 13                | .2                                      | 2.8                                                 | 75                                            | 39                                            | 12                                                  | <.10                                               | 7.8                                               | --                                                                 | 280                                                                 |
|                               | 20                | .3                                      | 2.2                                                 | 83                                            | 89                                            | 14                                                  | <.10                                               | 8.1                                               | 291                                                                | 310                                                                 |
|                               | 19                | .3                                      | 1.1                                                 | 44                                            | 38                                            | 6.2                                                 | <.10                                               | 7.3                                               | 59                                                                 | 200                                                                 |
| J070 USCE 1507-B              | 6                 | .3                                      | 7.4                                                 | 31                                            | 290                                           | 4.4                                                 | <.10                                               | 14                                                | 517                                                                | 500                                                                 |
|                               | 7                 | .3                                      | 8.2                                                 | 17                                            | 370                                           | 5.5                                                 | <.10                                               | 14                                                | 536                                                                | 550                                                                 |
|                               | 8                 | .3                                      | 7.5                                                 | 49                                            | 260                                           | 7.1                                                 | <.10                                               | 13                                                | 525                                                                | 440                                                                 |
|                               | 7                 | .3                                      | 7.5                                                 | 52                                            | 220                                           | 4.9                                                 | <.10                                               | 13                                                | 424                                                                | 390                                                                 |
| J071 USCE 1704-A              | 13                | .5                                      | 3.4                                                 | 12                                            | 260                                           | 5.7                                                 | .10                                                | 14                                                | 429                                                                | 400                                                                 |
|                               | 12                | .4                                      | 3.4                                                 | <1.0                                          | 280                                           | 6.4                                                 | <.10                                               | 14                                                | 418                                                                | --                                                                  |
|                               | 10                | .3                                      | 2.5                                                 | 11                                            | 220                                           | 9.6                                                 | <.10                                               | 12                                                | 373                                                                | 360                                                                 |
|                               | 12                | .4                                      | 2.2                                                 | 4.0                                           | 190                                           | 7.2                                                 | <.10                                               | 13                                                | 341                                                                | 300                                                                 |
| J072 USCE 1704-B              | 4                 | .2                                      | 7.6                                                 | 15                                            | 440                                           | 2.4                                                 | <.10                                               | 19                                                | 729                                                                | 700                                                                 |
|                               | 5                 | .2                                      | 6.7                                                 | 22                                            | 430                                           | 2.6                                                 | <.10                                               | 14                                                | 627                                                                | 640                                                                 |
|                               | 5                 | .2                                      | 7.3                                                 | 38                                            | 310                                           | 3.1                                                 | <.10                                               | 14                                                | 618                                                                | 530                                                                 |
|                               | 4                 | .2                                      | 7.7                                                 | 5.0                                           | 370                                           | 3.1                                                 | <.10                                               | 18                                                | 623                                                                | 590                                                                 |

| LOCAL<br>IDENT-<br>I-<br>FIER | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | IRON,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS FE) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE) | MANGA-<br>NESE,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS MN) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN) |
|-------------------------------|---------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|
| TISHOMINGO                    |                                                               |                                                       |                                            |                                                                 |                                                      |
| B032 USCE 602A-A              | <.10                                                          | 160000                                                | 120000                                     | 12000                                                           | 12000                                                |
|                               | <.10                                                          | 150000                                                | 140000                                     | 11000                                                           | 10000                                                |
|                               | <.10                                                          | 130000                                                | 120000                                     | 89000                                                           | 8200                                                 |
|                               | <.10                                                          | 120000                                                | 110000                                     | 4800                                                            | 4600                                                 |
| J070 USCE 1507-B              | <.10                                                          | 71000                                                 | 53000                                      | 4200                                                            | 3900                                                 |
|                               | <.10                                                          | 28000                                                 | 25000                                      | 3800                                                            | 3600                                                 |
|                               | .11                                                           | 23000                                                 | 15000                                      | 3600                                                            | 3400                                                 |
|                               | <.10                                                          | 18000                                                 | 16000                                      | 2800                                                            | 2700                                                 |
| J071 USCE 1704-A              | <.10                                                          | 28000                                                 | 22000                                      | 5500                                                            | 5200                                                 |
|                               | <.10                                                          | 29000                                                 | 29000                                      | 4900                                                            | 4900                                                 |
|                               | <.10                                                          | 35000                                                 | 35000                                      | 4200                                                            | 4200                                                 |
|                               | <.10                                                          | 26000                                                 | 26000                                      | 3800                                                            | 3500                                                 |
| J072 USCE 1704-B              | <.10                                                          | 70000                                                 | 69000                                      | 5200                                                            | 4900                                                 |
|                               | <.10                                                          | 36000                                                 | 36000                                      | 4200                                                            | 4000                                                 |
|                               | <.10                                                          | 40000                                                 | 40000                                      | 3800                                                            | 3800                                                 |
|                               | <.10                                                          | 64000                                                 | 54000                                      | 5300                                                            | 4800                                                 |

Stations to collect precipitation-quality data are operated to provide concerned agencies vital information pertaining to variations in precipitation chemistry in selected areas of Mississippi. The types of data obtained may be used for precipitation quality assessments of state and national interest. Samples are collected weekly on Tuesday and the analytical data are the result of a composite precipitation analysis. An automatic wet-dry precipitation collector is used to collect 7-day accumulations. The collector is equipped with an automatic precipitation sensitive sensor which activates the motor to operate the sample vessel cover. The sample vessel remains uncovered for the duration of each precipitation event and covered during dry periods. Dryfall samples are not collected for analysis. The 3.4-gal sample collecting vessel has a 11.3-in. diameter opening. A standard 8.0-in. universal recording rain gage (weighing type) is used to obtain on-site precipitation records.

## PRECIPITATION QUALITY STATION AT NSTL, MS

LOCATION.--Lat 30 21 55 , long 89 37 45 , in NW SW NW sec.8, T.8 S., R.16 W., St. Stephens Meridian, Hancock County, Hydrologic Unit 03180004, at the U.S. Geological Survey Hydrologic Instrument Facility located at NSTL.

PERIOD OF RECORD.--Water years 1983 to current year.

INSTRUMENTATION.--Automatic sensing wet-dry precipitation collector and universal recording rain gage since October 1983.

REMARKS.--Sample preparation and field measurements by local observer.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | PRECIP-<br>ITATION<br>INCHES | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) | DATE  | PRECIP-<br>ITATION<br>INCHES | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) |
|-------|------------------------------|---------------------------------------------------|--------------------------------|-------|------------------------------|---------------------------------------------------|--------------------------------|
| OCT   |                              |                                                   |                                | APR   |                              |                                                   |                                |
| 01-02 | .00                          | --                                                | --                             | -02   | 1.2                          | 12                                                | 5.1                            |
| 02-09 | .01                          | --                                                | --                             | 02-09 | .03                          | 129                                               | 6.2                            |
| 09-16 | .93                          | 21                                                | 4.0                            | 09-16 | .46                          | 31                                                | 4.4                            |
| 16-23 | .81                          | 20                                                | 4.7                            | 16-23 | .00                          | --                                                | --                             |
| 23-30 | .03                          | --                                                | --                             | 23-30 | .19                          | 34                                                | 4.9                            |
| 30-   |                              |                                                   |                                | 30-   |                              |                                                   |                                |
| NOV   |                              |                                                   |                                | MAY   |                              |                                                   |                                |
| -06   | .52                          | 15                                                | 4.7                            | -07   | .18                          | 51                                                | 4.1                            |
| 06-13 | .14                          | 17                                                | 5.0                            | 07-14 | .28                          | 32                                                | 4.4                            |
| 13-20 | .73                          | 8                                                 | 5.0                            | 14-21 | .07                          | 31                                                | --                             |
| 20-27 | .00                          | --                                                | --                             | 21-28 | .80                          | 10                                                | 4.9                            |
| 27-   |                              |                                                   |                                | 28-   |                              |                                                   |                                |
| DEC   |                              |                                                   |                                | JUN   |                              |                                                   |                                |
| -04   | 2.4                          | 14                                                | 4.7                            | -04   | .00                          | --                                                | --                             |
| 04-11 | .66                          | 14                                                | 4.4                            | 04-11 | 2.3                          | 13                                                | 4.6                            |
| 11-18 | .00                          | --                                                | --                             | 11-18 | 1.9                          | 12                                                | 4.9                            |
| 18-26 | .17                          | 22                                                | 4.7                            | 18-25 | 1.2                          | 12                                                | 5.2                            |
| 26-   |                              |                                                   |                                | 25-   |                              |                                                   |                                |
| JAN   |                              |                                                   |                                | JUL   |                              |                                                   |                                |
| -02   | .18                          | 34                                                | 4.4                            | -02   | 3.0                          | 30                                                | 4.3                            |
| 02-08 | .41                          | 16                                                | 4.3                            | 02-06 | 1.8                          | 6                                                 | 5.1                            |
| 08-15 | .02                          | --                                                | --                             | 09-16 | 1.4                          | 23                                                | 4.5                            |
| 15-22 | .90                          | 11                                                | 4.7                            | 16-23 | 1.7                          | 17                                                | 4.6                            |
| 22-29 | 2.4                          | 7                                                 | 4.8                            | 23-30 | .44                          | 25                                                | 4.4                            |
| 29-   |                              |                                                   |                                | 30-   |                              |                                                   |                                |
| FEB   |                              |                                                   |                                | AUG   |                              |                                                   |                                |
| -05   | .91                          | 32                                                | 4.3                            | -06   | 2.3                          | 17                                                | 4.5                            |
| 05-12 | 2.5                          | 8                                                 | 4.9                            | 06-13 | 3.7                          | 16                                                | 4.5                            |
| 12-19 | .00                          | --                                                | --                             | 13-20 | 4.4                          | 14                                                | 4.9                            |
| 19-26 | 2.4                          | 10                                                | 4.8                            | 20-27 | 1.0                          | --                                                | --                             |
| 26-   |                              |                                                   |                                | 27-   |                              |                                                   |                                |
| MAR   |                              |                                                   |                                | SEP   |                              |                                                   |                                |
| -05   | 1.9                          | 17                                                | 4.4                            | -03   | 2.8                          | 9                                                 | 5.0                            |
| 05-12 | .00                          | --                                                | --                             | 03-10 | 1.9                          | 25                                                | 4.2                            |
| 12-19 | .62                          | 29                                                | 4.2                            | 10-17 | .00                          | --                                                | --                             |
| 19-26 | 3.7                          | 6                                                 | 5.2                            | 17-24 | 3.5                          | 7                                                 | 4.9                            |
| 26-   |                              |                                                   |                                | 24-30 | 2.9                          | 7                                                 | 4.9                            |



## QUALITY OF PRECIPITATION

## PRECIPITATION QUALITY STATION AT NSTL, MS--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | BROMIDE<br>DIS-<br>SOLVED<br>(MG/L<br>AS BR) | NITRO-<br>GEN,<br>NITRATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) |
|-------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|----------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|
| OCT   |                                              |                                                      |                                              |                                                     |                                               |                                                     |                                                    |                                              |                                                               |                                                               |                                                      |
| 09-16 | .21                                          | .13                                                  | 1.0                                          | .05                                                 | 1.6                                           | 1.7                                                 | <.01                                               | .05                                          | .20                                                           | .220                                                          | <.001                                                |
| 16-23 | .15                                          | .16                                                  | 1.3                                          | .05                                                 | 1.2                                           | 2.2                                                 | <.01                                               | <.01                                         | .19                                                           | .201                                                          | <.001                                                |
| 30-   |                                              |                                                      |                                              |                                                     |                                               |                                                     |                                                    |                                              |                                                               |                                                               |                                                      |
| NOV   |                                              |                                                      |                                              |                                                     |                                               |                                                     |                                                    |                                              |                                                               |                                                               |                                                      |
| -06   | .16                                          | .07                                                  | .55                                          | .03                                                 | 1.0                                           | 1.0                                                 | .03                                                | <.01                                         | .25                                                           | .220                                                          | <.001                                                |
| 06-13 | .31                                          | .17                                                  | 1.2                                          | .07                                                 | 1.6                                           | 1.9                                                 | .06                                                | .05                                          | .20                                                           | .657                                                          | <.001                                                |
| 13-20 | .09                                          | .05                                                  | .46                                          | .01                                                 | .5                                            | .90                                                 | <.01                                               | <.01                                         | <.01                                                          | .070                                                          | <.001                                                |
| 27-   |                                              |                                                      |                                              |                                                     |                                               |                                                     |                                                    |                                              |                                                               |                                                               |                                                      |
| DEC   |                                              |                                                      |                                              |                                                     |                                               |                                                     |                                                    |                                              |                                                               |                                                               |                                                      |
| -04   | .12                                          | .08                                                  | .58                                          | .04                                                 | .9                                            | .90                                                 | <.01                                               | <.01                                         | .10                                                           | .073                                                          | <.001                                                |
| 04-11 | .07                                          | .01                                                  | .07                                          | <.01                                                | --                                            | .29                                                 | <.01                                               | <.01                                         | .10                                                           | .130                                                          | <.001                                                |
| 26-   |                                              |                                                      |                                              |                                                     |                                               |                                                     |                                                    |                                              |                                                               |                                                               |                                                      |
| JAN   |                                              |                                                      |                                              |                                                     |                                               |                                                     |                                                    |                                              |                                                               |                                                               |                                                      |
| -02   | .39                                          | .41                                                  | 2.4                                          | .12                                                 | 1.7                                           | 3.8                                                 | .03                                                | <.01                                         | .22                                                           | .104                                                          | <.001                                                |
| 02-08 | .15                                          | .04                                                  | .06                                          | .02                                                 | 1.5                                           | .04                                                 | <.01                                               | <.01                                         | .11                                                           | .100                                                          | <.001                                                |
| 15-22 | .13                                          | .04                                                  | .29                                          | .02                                                 | .4                                            | .56                                                 | .02                                                | .01                                          | .05                                                           | .132                                                          | <.001                                                |
| 22-29 | .04                                          | .01                                                  | .08                                          | <.01                                                | .7                                            | .28                                                 | .05                                                | <.01                                         | .07                                                           | .072                                                          | <.001                                                |
| 29-   |                                              |                                                      |                                              |                                                     |                                               |                                                     |                                                    |                                              |                                                               |                                                               |                                                      |
| FEB   |                                              |                                                      |                                              |                                                     |                                               |                                                     |                                                    |                                              |                                                               |                                                               |                                                      |
| -05   | .31                                          | .12                                                  | 1.0                                          | .09                                                 | 2.7                                           | 1.9                                                 | .23                                                | <.01                                         | .29                                                           | .269                                                          | .026                                                 |
| 05-12 | .20                                          | .04                                                  | .31                                          | .02                                                 | .8                                            | .33                                                 | <.01                                               | <.01                                         | .07                                                           | .089                                                          | .025                                                 |
| 19-26 | .12                                          | .07                                                  | .47                                          | .02                                                 | 1.0                                           | .95                                                 | <.01                                               | <.01                                         | .09                                                           | .168                                                          | .015                                                 |
| 26-   |                                              |                                                      |                                              |                                                     |                                               |                                                     |                                                    |                                              |                                                               |                                                               |                                                      |
| MAR   |                                              |                                                      |                                              |                                                     |                                               |                                                     |                                                    |                                              |                                                               |                                                               |                                                      |
| -05   | .18                                          | .06                                                  | .30                                          | .03                                                 | 1.6                                           | .35                                                 | <.01                                               | <.01                                         | .10                                                           | .155                                                          | .026                                                 |
| 12-19 | .36                                          | .10                                                  | .41                                          | .16                                                 | 3.7                                           | .72                                                 | .06                                                | .07                                          | .34                                                           | .092                                                          | .033                                                 |
| 19-26 | .12                                          | .05                                                  | .42                                          | .03                                                 | .5                                            | .71                                                 | <.01                                               | <.01                                         | .05                                                           | .059                                                          | .010                                                 |
| 26-   |                                              |                                                      |                                              |                                                     |                                               |                                                     |                                                    |                                              |                                                               |                                                               |                                                      |
| APR   |                                              |                                                      |                                              |                                                     |                                               |                                                     |                                                    |                                              |                                                               |                                                               |                                                      |
| -02   | .24                                          | .10                                                  | .62                                          | .08                                                 | 1.0                                           | 1.6                                                 | <.01                                               | .01                                          | .23                                                           | .344                                                          | .006                                                 |
| 09-16 | .52                                          | .13                                                  | .62                                          | .06                                                 | 4.4                                           | 1.0                                                 | .06                                                | <.01                                         | .49                                                           | .643                                                          | .033                                                 |
| 23-30 | .75                                          | .22                                                  | 1.3                                          | .42                                                 | 4.7                                           | 2.7                                                 | .02                                                | <.01                                         | .97                                                           | 2.90                                                          | .060                                                 |
| 30-   |                                              |                                                      |                                              |                                                     |                                               |                                                     |                                                    |                                              |                                                               |                                                               |                                                      |
| MAY   |                                              |                                                      |                                              |                                                     |                                               |                                                     |                                                    |                                              |                                                               |                                                               |                                                      |
| -07   | .59                                          | .15                                                  | .51                                          | .11                                                 | 9.7                                           | .43                                                 | .06                                                | .06                                          | .42                                                           | .815                                                          | .062                                                 |
| 07-14 | .72                                          | .15                                                  | .47                                          | .14                                                 | 4.2                                           | .68                                                 | .09                                                | <.01                                         | .72                                                           | --                                                            | .046                                                 |
| 21-28 | .22                                          | .06                                                  | .16                                          | .17                                                 | .9                                            | .40                                                 | .02                                                | <.01                                         | .27                                                           | .117                                                          | .013                                                 |
| JUN   |                                              |                                                      |                                              |                                                     |                                               |                                                     |                                                    |                                              |                                                               |                                                               |                                                      |
| 04-11 | .24                                          | .10                                                  | .12                                          | .81                                                 | 1.3                                           | .30                                                 | .08                                                | <.01                                         | .21                                                           | .170                                                          | .004                                                 |
| 11-18 | .10                                          | .04                                                  | .13                                          | .02                                                 | .4                                            | .27                                                 | .01                                                | <.01                                         | .08                                                           | .049                                                          | .004                                                 |
| 18-25 | .30                                          | .07                                                  | .64                                          | <.01                                                | 1.5                                           | .89                                                 | .01                                                | <.01                                         | .21                                                           | .172                                                          | .124                                                 |
| 25-   |                                              |                                                      |                                              |                                                     |                                               |                                                     |                                                    |                                              |                                                               |                                                               |                                                      |
| JUL   |                                              |                                                      |                                              |                                                     |                                               |                                                     |                                                    |                                              |                                                               |                                                               |                                                      |
| -02   | .24                                          | .05                                                  | .12                                          | .01                                                 | 2.2                                           | .28                                                 | .02                                                | <.01                                         | .36                                                           | .258                                                          | .043                                                 |
| 02-06 | .08                                          | .02                                                  | .10                                          | .03                                                 | .6                                            | .27                                                 | .03                                                | <.01                                         | .12                                                           | .113                                                          | .008                                                 |
| 09-16 | .30                                          | .08                                                  | .31                                          | .04                                                 | 1.5                                           | .76                                                 | .07                                                | <.01                                         | .46                                                           | --                                                            | .018                                                 |
| 16-23 | .14                                          | .05                                                  | .13                                          | .04                                                 | 1.3                                           | .19                                                 | .03                                                | <.01                                         | .27                                                           | .159                                                          | .008                                                 |
| 23-30 | .42                                          | .08                                                  | .20                                          | .15                                                 | 2.0                                           | .43                                                 | .06                                                | <.01                                         | .44                                                           | .397                                                          | .033                                                 |
| 30-   |                                              |                                                      |                                              |                                                     |                                               |                                                     |                                                    |                                              |                                                               |                                                               |                                                      |
| AUG   |                                              |                                                      |                                              |                                                     |                                               |                                                     |                                                    |                                              |                                                               |                                                               |                                                      |
| -06   | .20                                          | .05                                                  | .16                                          | .08                                                 | 1.6                                           | .42                                                 | .20                                                | <.01                                         | .23                                                           | .085                                                          | <.001                                                |
| 06-13 | .12                                          | .03                                                  | .10                                          | .04                                                 | 1.3                                           | .19                                                 | .10                                                | <.01                                         | .18                                                           | .133                                                          | .011                                                 |
| 13-20 | .17                                          | .11                                                  | .89                                          | .07                                                 | .8                                            | 1.4                                                 | .02                                                | <.01                                         | .08                                                           | .058                                                          | .010                                                 |
| 27-   |                                              |                                                      |                                              |                                                     |                                               |                                                     |                                                    |                                              |                                                               |                                                               |                                                      |
| SEP   |                                              |                                                      |                                              |                                                     |                                               |                                                     |                                                    |                                              |                                                               |                                                               |                                                      |
| -03   | .22                                          | .03                                                  | .21                                          | .08                                                 | .8                                            | .37                                                 | .03                                                | <.01                                         | .05                                                           | .106                                                          | .008                                                 |
| 03-10 | .18                                          | .06                                                  | .23                                          | .18                                                 | 2.0                                           | .64                                                 | .03                                                | <.01                                         | .25                                                           | .033                                                          | .004                                                 |
| 17-24 | .14                                          | .07                                                  | .46                                          | .04                                                 | .7                                            | .93                                                 | .02                                                | <.01                                         | .05                                                           | .033                                                          | .001                                                 |
| 24-30 | .22                                          | .05                                                  | .19                                          | .06                                                 | .6                                            | .40                                                 | .03                                                | <.01                                         | .09                                                           | .051                                                          | .005                                                 |

# QUALITY OF PRECIPITATION

449

## PRECIPITATION QUALITY STATION NEAR JANICE, MS

LOCATION.--Lat 31 01 52 , long 88 59 09 , in NW NW SE sec.22, T.1 N., R.10 W., St. Stephens Meridian, Perry County, Hydrologic Unit 03170007, at the U.S. Forest Service Erambert Seed Orchard, on State Highway 29, 3.4 mi east of Janice.

PERIOD OF RECORD.--Water years 1982 to current year.

INSTRUMENTATION.--Automatic sensing wet-dry precipitation collector and universal recording rain gage since February 1982.

REMARKS.--Sample preparation and field measurements by local observer.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | PRECIP-<br>ITATION<br>INCHES | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) |
|-------|------------------------------|---------------------------------------------------|--------------------------------|
| OCT   |                              |                                                   |                                |
| 01-02 | .00                          | --                                                | --                             |
| 02-09 | .08                          | 24                                                | 4.4                            |
| 09-16 | 1.6                          | 8                                                 | 4.9                            |
| 16-23 | 7.0                          | 12                                                | 4.9                            |
| 23-30 | .31                          | 20                                                | 4.4                            |
| 30-   |                              |                                                   |                                |
| NOV   |                              |                                                   |                                |
| -06   | 1.2                          | 15                                                | 4.6                            |
| 06-13 | .50                          | 12                                                | 4.8                            |
| 13-20 | .80                          | 8                                                 | 4.9                            |
| 20-27 | .40                          | 47                                                | 4.5                            |
| 27-   |                              |                                                   |                                |
| DEC   |                              |                                                   |                                |
| -04   | 3.1                          | 13                                                | 4.8                            |
| 04-11 | 2.9                          | 6                                                 | 4.9                            |
| 11-18 | .30                          | 30                                                | 4.7                            |
| 18-26 | .00                          | --                                                | --                             |
| 26-   |                              |                                                   |                                |
| JAN   |                              |                                                   |                                |
| -01   | .68                          | 20                                                | 4.6                            |
| 01-08 | .98                          | 14                                                | 4.5                            |
| 08-15 | .02                          | --                                                | --                             |
| 15-22 | 2.4                          | 18                                                | 4.6                            |
| 22-29 | 1.5                          | 11                                                | 5.2                            |
| 29-   |                              |                                                   |                                |
| FEB   |                              |                                                   |                                |
| -05   | 1.8                          | 16                                                | 5.0                            |
| 05-12 | 2.7                          | 10                                                | 4.9                            |
| 12-19 | <.01                         | --                                                | --                             |
| 19-26 | 4.0                          | 12                                                | 4.2                            |
| 26-   |                              |                                                   |                                |
| MAR   |                              |                                                   |                                |
| -05   | 2.0                          | 12                                                | 4.7                            |
| 05-12 | <.01                         | --                                                | --                             |
| 12-19 | .34                          | 22                                                | 4.3                            |
| 19-26 | 2.2                          | 4                                                 | 4.7                            |
| 26-   |                              |                                                   |                                |

| DATE  | PRECIP-<br>ITATION<br>INCHES | SPE-<br>CIFIC<br>CON-<br>DUC-<br>TANCE<br>(US/CM) | PH<br>(STAND-<br>ARD<br>UNITS) |
|-------|------------------------------|---------------------------------------------------|--------------------------------|
| APR   |                              |                                                   |                                |
| -02   | .87                          | 21                                                | 4.1                            |
| 02-09 | .50                          | 16                                                | 5.6                            |
| 09-16 | 1.0                          | 26                                                | 4.5                            |
| 16-23 | .01                          | --                                                | --                             |
| 23-30 | 2.0                          | 20                                                | 4.5                            |
| 30-   |                              |                                                   |                                |
| MAY   |                              |                                                   |                                |
| -07   | 1.1                          | 26                                                | 4.4                            |
| 07-14 | .11                          | 32                                                | 4.3                            |
| 14-21 | .74                          | 17                                                | 4.6                            |
| 21-22 | .35                          | --                                                | --                             |
| 22-28 | .10                          | 19                                                | 4.5                            |
| 28-   |                              |                                                   |                                |
| JUN   |                              |                                                   |                                |
| -04   | .00                          | --                                                | --                             |
| 04-11 | 1.0                          | 30                                                | 4.3                            |
| 11-18 | 1.4                          | 6                                                 | 4.9                            |
| 18-25 | .35                          | 14                                                | 4.7                            |
| 25-   |                              |                                                   |                                |
| JUL   |                              |                                                   |                                |
| -02   | .69                          | 22                                                | 4.3                            |
| 02-09 | 1.1                          | 7                                                 | 4.9                            |
| 09-16 | 1.1                          | 20                                                | 4.3                            |
| 16-23 | 2.4                          | 24                                                | 4.3                            |
| 23-30 | 2.4                          | 16                                                | 4.5                            |
| 30-   |                              |                                                   |                                |
| AUG   |                              |                                                   |                                |
| -06   | 1.2                          | 16                                                | 4.5                            |
| 06-13 | 1.0                          | 22                                                | 4.3                            |
| 13-20 | 3.9                          | 18                                                | 4.7                            |
| 20-27 | .35                          | 16                                                | 4.5                            |
| 27-   |                              |                                                   |                                |
| SEP   |                              |                                                   |                                |
| -03   | 2.4                          | 9                                                 | 4.9                            |
| 03-10 | 2.1                          | 6                                                 | 4.9                            |
| 10-17 | .05                          | 30                                                | 5.4                            |
| 17-24 | 5.4                          | 4                                                 | 5.1                            |
| 24-30 | 2.4                          | 22                                                | 4.3                            |

## QUALITY OF PRECIPITATION

PRECIPITATION QUALITY STATION NEAR JANICE, MS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

| DATE  | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F) | BROMIDE<br>DIS-<br>SOLVED<br>(MG/L<br>AS BR) | NITRO-<br>GEN,<br>NITRATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P) |
|-------|----------------------------------------------|------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|----------------------------------------------------|----------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|
| OCT   |                                              |                                                      |                                              |                                                     |                                               |                                                     |                                                    |                                              |                                                               |                                                               |                                                      |
| 02-09 | 1.1                                          | .32                                                  | .09                                          | --                                                  | 1.8                                           | 1.2                                                 | .24                                                | <.01                                         | .68                                                           | .307                                                          | .164                                                 |
| 09-16 | --                                           | --                                                   | --                                           | --                                                  | --                                            | --                                                  | --                                                 | --                                           | --                                                            | .127                                                          | .026                                                 |
| 16-23 | .21                                          | .10                                                  | .60                                          | .03                                                 | 1.0                                           | 1.2                                                 | .02                                                | <.01                                         | .09                                                           | .339                                                          | <.001                                                |
| 23-30 | .19                                          | .05                                                  | .19                                          | .01                                                 | 1.8                                           | .58                                                 | .10                                                | <.01                                         | .22                                                           | .176                                                          | .020                                                 |
| 30-   |                                              |                                                      |                                              |                                                     |                                               |                                                     |                                                    |                                              |                                                               |                                                               |                                                      |
| NOV   |                                              |                                                      |                                              |                                                     |                                               |                                                     |                                                    |                                              |                                                               |                                                               |                                                      |
| -06   | .18                                          | .06                                                  | .21                                          | .01                                                 | 1.3                                           | .44                                                 | .02                                                | <.01                                         | .16                                                           | .225                                                          | <.001                                                |
| 06-13 | .20                                          | .08                                                  | .36                                          | .02                                                 | 1.2                                           | .70                                                 | .05                                                | <.01                                         | .16                                                           | .358                                                          | .009                                                 |
| 13-20 | .08                                          | .06                                                  | .37                                          | --                                                  | .7                                            | .70                                                 | <.01                                               | <.01                                         | .10                                                           | <.001                                                         | <.001                                                |
| 20-27 | .35                                          | .49                                                  | 3.9                                          | .15                                                 | 2.9                                           | 6.9                                                 | .05                                                | <.01                                         | .46                                                           | .181                                                          | .023                                                 |
| 27-   |                                              |                                                      |                                              |                                                     |                                               |                                                     |                                                    |                                              |                                                               |                                                               |                                                      |
| DEC   |                                              |                                                      |                                              |                                                     |                                               |                                                     |                                                    |                                              |                                                               |                                                               |                                                      |
| -04   | .17                                          | .10                                                  | .06                                          | .01                                                 | 1.2                                           | 1.2                                                 | <.01                                               | <.01                                         | .10                                                           | .105                                                          | <.001                                                |
| 04-11 | .09                                          | .05                                                  | .07                                          | .33                                                 | .5                                            | .02                                                 | .02                                                | <.01                                         | .06                                                           | .071                                                          | .029                                                 |
| 11-18 | .35                                          | .28                                                  | 2.1                                          | .21                                                 | 1.0                                           | 4.2                                                 | .01                                                | <.01                                         | .10                                                           | .225                                                          | .029                                                 |
| 26-   |                                              |                                                      |                                              |                                                     |                                               |                                                     |                                                    |                                              |                                                               |                                                               |                                                      |
| JAN   |                                              |                                                      |                                              |                                                     |                                               |                                                     |                                                    |                                              |                                                               |                                                               |                                                      |
| -01   | .17                                          | .16                                                  | 1.3                                          | .08                                                 | 1.7                                           | 2.2                                                 | .03                                                | <.01                                         | .19                                                           | .230                                                          | .011                                                 |
| 01-08 | .10                                          | .04                                                  | .05                                          | .01                                                 | 1.2                                           | .28                                                 | .07                                                | <.01                                         | .08                                                           | .110                                                          | <.001                                                |
| 15-22 | .20                                          | .11                                                  | .53                                          | .05                                                 | 2.0                                           | 1.0                                                 | .18                                                | <.01                                         | .25                                                           | .154                                                          | <.001                                                |
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| 05-12 | .17                                          | .04                                                  | .17                                          | .23                                                 | .8                                            | .44                                                 | .07                                                | <.01                                         | .27                                                           | .100                                                          | .012                                                 |
| 19-26 | .09                                          | .06                                                  | .46                                          | .02                                                 | 1.0                                           | .92                                                 | .02                                                | <.01                                         | .07                                                           | .077                                                          | .016                                                 |
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| 02-09 | .30                                          | .13                                                  | 1.4                                          | .28                                                 | 1.6                                           | 2.7                                                 | .04                                                | <.01                                         | .18                                                           | .338                                                          | .014                                                 |
| 09-16 | .17                                          | .05                                                  | .25                                          | .03                                                 | 3.0                                           | .33                                                 | .02                                                | <.01                                         | .60                                                           | .595                                                          | .028                                                 |
| 23-30 | .17                                          | .09                                                  | .62                                          | .06                                                 | 1.9                                           | 1.2                                                 | --                                                 | .01                                          | .28                                                           | .516                                                          | <.001                                                |
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| 14-21 | .22                                          | .05                                                  | .17                                          | .05                                                 | 1.7                                           | .34                                                 | .03                                                | <.01                                         | .24                                                           | .135                                                          | .005                                                 |
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| 09-16 | .28                                          | .08                                                  | .24                                          | .04                                                 | 2.0                                           | .50                                                 | .07                                                | <.01                                         | .62                                                           | .309                                                          | .023                                                 |
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## FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

| Multiply inch-pound units                  | By                     | To obtain SI units                               |
|--------------------------------------------|------------------------|--------------------------------------------------|
| <i>Length</i>                              |                        |                                                  |
| inches (in)                                | $2.54 \times 10^1$     | millimeters (mm)                                 |
|                                            | $2.54 \times 10^{-2}$  | meters (m)                                       |
| feet (ft)                                  | $3.048 \times 10^{-1}$ | meters (m)                                       |
| miles (mi)                                 | $1.609 \times 10^0$    | kilometers (km)                                  |
| <i>Area</i>                                |                        |                                                  |
| acres                                      | $4.047 \times 10^3$    | square meters (m <sup>2</sup> )                  |
|                                            | $4.047 \times 10^{-1}$ | square hectometers (hm <sup>2</sup> )            |
|                                            | $4.047 \times 10^{-3}$ | square kilometers (km <sup>2</sup> )             |
| square miles (mi <sup>2</sup> )            | $2.590 \times 10^0$    | square kilometers (km <sup>2</sup> )             |
| <i>Volume</i>                              |                        |                                                  |
| gallons (gal)                              | $3.785 \times 10^0$    | liters (L)                                       |
|                                            | $3.785 \times 10^0$    | cubic decimeters (dm <sup>3</sup> )              |
|                                            | $3.785 \times 10^{-3}$ | cubic meters (m <sup>3</sup> )                   |
| million gallons                            | $3.785 \times 10^3$    | cubic meters (m <sup>3</sup> )                   |
|                                            | $3.785 \times 10^{-3}$ | cubic hectometers (hm <sup>3</sup> )             |
| cubic feet (ft <sup>3</sup> )              | $2.832 \times 10^1$    | cubic decimeters (dm <sup>3</sup> )              |
|                                            | $2.832 \times 10^{-2}$ | cubic meters (m <sup>3</sup> )                   |
| acre-feet (acre-ft)                        | $1.233 \times 10^3$    | cubic meters (m <sup>3</sup> )                   |
|                                            | $1.233 \times 10^{-3}$ | cubic hectometers (hm <sup>3</sup> )             |
|                                            | $1.233 \times 10^{-6}$ | cubic kilometers (km <sup>3</sup> )              |
| <i>Flow</i>                                |                        |                                                  |
| cubic feet per second (ft <sup>3</sup> /s) | $2.832 \times 10^1$    | liters per second (L/s)                          |
|                                            | $2.832 \times 10^1$    | cubic decimeters per second (dm <sup>3</sup> /s) |
|                                            | $2.832 \times 10^{-2}$ | cubic meters per second (m <sup>3</sup> /s)      |
| gallons per minute (gal/min)               | $6.309 \times 10^{-2}$ | liters per second (L/s)                          |
|                                            | $6.309 \times 10^{-2}$ | cubic decimeters per second (dm <sup>3</sup> /s) |
|                                            | $6.309 \times 10^{-5}$ | cubic meters per second (m <sup>3</sup> /s)      |
| million gallons per day                    | $4.381 \times 10^1$    | cubic decimeters per second (dm <sup>3</sup> /s) |
|                                            | $4.381 \times 10^{-2}$ | cubic meters per second (m <sup>3</sup> /s)      |
| <i>Mass</i>                                |                        |                                                  |
| tons (short)                               | $9.072 \times 10^{-1}$ | megagrams (Mg) or metric tons                    |



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