

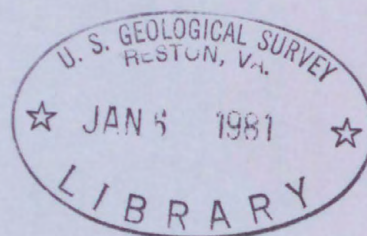
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# Water Resources Data for Mississippi

Part 1. Surface Water Records

Part 2. Water Quality Records



**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

Prepared in cooperation with the Mississippi Board of  
Water Commissioners and with other State, county,  
municipal, and Federal agencies



# CALENDAR FOR WATER YEAR 1974

1973

## 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 |    |    |    |    |    |

1974

## 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 |    |    |    |    |    |



1974

# **Water Resources Data for Mississippi**

Part 1. Surface Water Records

Part 2. Water Quality Records



**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

**Prepared in cooperation with the Mississippi Board of  
Water Commissioners and with other State, county,  
municipal, and Federal agencies**



Prepared in cooperation with

Mississippi Board of Water Commissioners  
Mississippi State Highway Department  
Mississippi Research and Development Center  
Mississippi Air and Water Pollution Control Commission  
Pat Harrison Waterway District  
Pearl River Valley Water Supply District  
Harrison County Development Commission  
Jackson County Port Authority  
City of Jackson  
Corps of Engineers, U.S. Army  
U.S. Soil Conservation Service  
Environmental Protection Agency

Copies of this report may be obtained from  
District Chief, Water Resources Division  
U.S. Geological Survey  
430 Bounds Street  
Jackson, Mississippi 39206

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FOR WHICH RECORDS ARE PUBLISHED

(Letters after station name designate type of data: (c), chemical;  
(t), water temperature)

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|                                                            |     |
|------------------------------------------------------------|-----|
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# WATER RESOURCES DATA FOR MISSISSIPPI, 1974

- Part 1. Surface-Water Records
- Part 2. Water-Quality Records

## INTRODUCTION

Water resources data for the 1974 water year for Mississippi including records of streamflow or reservoir storage at gaging stations, partial-record stations, and miscellaneous sites, special information on the flood in south-central Mississippi in April, and records of water-quality data on the chemical and physical characteristics of surface water, are given in this report. In Part 1, records are included for 79 gaging stations of which 75 are streamflow discharge stations, and 4 are reservoir or lake stations; also are included records for 11 low-flow partial-record stations, 136 crest-stage partial-record stations, and 149 miscellaneous sites. Locations of continuous-record gaging stations are shown in figure 1 and locations of partial-record stations are shown in figure 2. In Part 2, water-quality data on chemical, physical, and biological characteristics of surface water are included for designated sampling sites at which samples were obtained at predetermined intervals such as daily, weekly, monthly, or less frequently. Records are given for 70 sampling stations of which 32 are continuous-record stations, 26 are partial-record stations, and 12 are miscellaneous sites. Locations of water-quality stations are shown in figure 1. A few pertinent stations (not included above) furnished by bordering States are also included in this report. The records were collected and computed by the Water Resources Division of the U.S. Geological Survey under the direction of L. E. Carroon, district chief. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Mississippi.

Beginning with the 1961 water year, streamflow records and related data have been released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records beginning with the 1964 water year have been similarly released either in separate reports or in conjunction with streamflow records. These reports are for limited distribution and are designed primarily for rapid release of data shortly after the end of the water year.



Records of discharge and stage of streams, and contents and stage of lakes and reservoirs are published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and since then are in a 5-year series. Records of chemical quality, water temperatures, and suspended sediment have been published since 1941 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." More information is given under the headings "Publications" on page 22.

#### COOPERATION

The U.S. Geological Survey and organizations of the State of Mississippi have had cooperative agreements for the systematic collection of streamflow records since 1931, and for water-quality records since 1964. Organizations that assisted in collected data through cooperation with the Survey are:

Mississippi Board of Water Commissioners,  
Jack W. Pepper, water engineer.

Mississippi State Highway Department,  
E. L. Boteler, director.

Mississippi Research and Development Center,  
Dr. Kenneth C. Wagner, director.

Mississippi Air and Water Pollution Control Commission,  
Glen Wood, Jr., executive director.

Pat Harrison Waterway District,  
Pat W. Sellers, executive director.

Pearl River Valley Water Supply District,  
R. B. Lampton, president.

Harrison County Development Commission,  
Tommy Munroe, president.

Jackson County Port Authority,  
Donald Inskip, president.

City of Jackson, Russell C. Davis, mayor.

Assistance in the form of funds or services was given by the Corps of Engineers, Department of the Army, in collecting records for 48 gaging stations published in this report.

Assistance was also furnished by the National Weather Service, NOAA, U.S. Department of Commerce; the Soil Conservation Service, U.S. Department of Agriculture and the Environmental Protection Agency.

The Vicksburg Bridge Commission of Warren County aided in collecting records.

Organizations that supplied data are acknowledged in station descriptions.

#### DEFINITION OF TERMS

Table for converting English Units to International System (SI) Units is on page 27. Terms related to stream-flow, water-quality, and other hydrologic data, as used in this report, are defined as follows:

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, 325,851 gallons, or 1,233 cubic metres.

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

Bacteria are microscopic unicellular organisms, typically spherical, rod-like, 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 which 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 warmblooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at  $44.5^{\circ}\text{C} \pm 0.2^{\circ}\text{C}$  on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Fecal streptococcal bacteria are bacteria found also in the intestine of warmblooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at  $35^{\circ}\text{C} \pm 1.0^{\circ}\text{C}$  on M-enterococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Benthic organisms (invertebrates) are animals inhabiting the bottom of an aquatic environment. They include a number of different types of organisms, such as bacteria, fungi, insect larvae and nymphs, snails, clams, and crayfish. They are frequently used as indicators of environmental quality because many have restricted mobility during their aquatic life phase, as well as a relatively long lifespan which allows for response to prevailing and changing water-quality conditions. Many benthic organisms inhabit specific types of environments which, if changed, result in changes in the composition of the benthic community.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per litre, 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 weight per unit area or volume of habitat.

Ash weight is the weight or amount of residue present after the residue from the dry weight determination has been ashed in a muffle furnace at a temperature of  $500^{\circ}\text{C}$  for 1 hour. The ash weight values of zooplankton and phytoplankton are expressed in  $\text{g}/\text{m}^3$  (grams per cubic metre), and periphyton and benthic organisms in  $\text{g}/\text{m}^2$  (grams per square metre).

Dry weight refers to the weight of residue present after drying in an oven at 60°C for zooplankton and 105°C for periphyton, until the weight remains unchanged. This weight represents the total organic matter, ash and sediment, in the sample. Dry weight values are expressed in the same units as ash weight.

Organic weight or volatile weight of the living substance is the difference between the dry weight and the ash weight, and represents the actual weight of the living matter. The organic weight is expressed in the same units as for ash and dry weights.

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

CFS-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.9835 acre-feet, 646,315 gallons, or 2,447 cubic metres, and represents a runoff of 0.0372 inch from 1 square mile.

Chemical oxygen demand (COD) indicates the quantity of oxidizable compounds in water and varies with water composition(s), temperature, period of contact, and other factors.

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

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.

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

Cubic foot per second (cfs) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute.



Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

Mean discharge is the arithmetic average of individual daily mean discharge during a specific period.

Instantaneous discharge is the discharge at a particular instant of time. If this discharge is reported instead of the daily mean, the heading of the discharge column in the tables is "Discharge (cfs)."

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.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the 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. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Hardness of water is a physical-chemical characteristic attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ( $\text{CaCO}_3$ ).

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

Milligrams per litre ( $\text{mg}/\text{l}$ ,  $\text{MG}/\text{L}$ ) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per litre represents the weight of solute per unit volume of water. Milligrams or micrograms per litre may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per litre by multiplying by the factors in table 1, below.

Table 1.--Factors for conversion of chemical constituents in milligrams or micrograms per litre to milliequivalents per litre

| <u>Ion</u>                   | <u>Multi-<br/>ply by</u> | <u>Ion</u>                  | <u>Multi-<br/>ply by</u> |
|------------------------------|--------------------------|-----------------------------|--------------------------|
| Aluminum ( $Al^{+3}$ )*..... | 0.11119                  | Lead ( $Pb^{+2}$ )*.....    | 0.00965                  |
| Ammonia as $NH_4^{+1}$ ..... | .05544                   | Magnesium ( $Mg^{+2}$ )..   | .08226                   |
| Bicarbonate ( $HCO_3^{-1}$ ) | .01639                   | Manganese ( $Mn^{+2}$ )*.   | .03640                   |
| Calcium ( $Ca^{+2}$ ).....   | .04990                   | Nickel ( $Ni^{+2}$ )*.....  | .03406                   |
| Carbonate ( $CO_3^{-2}$ )... | .03333                   | Nitrate ( $NO_3^{-1}$ )...  | .01613                   |
| Chloride ( $Cl^{-1}$ ).....  | .02821                   | Nitrite ( $NO_2^{-1}$ )...  | .02174                   |
| Chromium ( $Cr^{+6}$ )*..... | .11539                   | Phosphate ( $PO_4^{-3}$ ).. | .03159                   |
| Cobalt ( $Co^{+2}$ )*.....   | .03394                   | Potassium ( $K^{+1}$ )...   | .02557                   |
| Copper ( $Cu^{+2}$ )*.....   | .03148                   | Sodium ( $Na^{+1}$ ).....   | .04350                   |
| Cyanide ( $CN^{-1}$ ).....   | .03844                   | Sulfate ( $SO_4^{-2}$ )...  | .02082                   |
| Fluoride ( $F^{-1}$ ).....   | .05264                   | Zinc ( $Zn^{+2}$ )*.....    | .03060                   |
| Iron ( $Fe^{+3}$ )*.....     | .05372                   |                             |                          |

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\*Constituent reported in micrograms per litre; multiply by factor and divide results by 1,000.

Organism is any living entity, such as an insect, phytoplankter, or zooplankter.

Cells/volume refers to the number of cells or 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 volume, usually millilitres (ml) or litres (l).

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square metres ( $m^2$ ), acres, or hectares. 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 millilitres (ml) or litres (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.

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

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, weight, or volume.

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

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 millilitre of sample.

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

Substrate is the physical surface upon which an organism lives.

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

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The use of artificial substrates 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 multi-plate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection.

Runoff in inches (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.

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions with soil and is an index of sodium or alkali hazard to the soil. This ratio should be known especially for water used for irrigating farmland.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimeter at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved solids (in milligrams per litre) is about 65 percent of the specific conductance (in micromhos). 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 and the volume of water per unit of time, flowing in a channel.

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the presence of a thermograph or a digital mechanism that automatically records water temperatures on paper tape.



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

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

WRD is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to previously published State annual basic-data reports.

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

#### SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin. Station 02479155, Cypress Creek near Janice, has been designated as a Hydrologic bench-mark station.

National Stream-Quality Accounting Network (NASQAN) Stations are designed to meet many of the information demands of agencies or groups involved in planning and management on a national or regional scale. The objectives of the Accounting Network are to depict areal variability of water-quality conditions nationwide on a year-by-year basis and to detect and assess stream-quality changes over long terms. Stations 02479020, Pascagoula River near Benndale, and 07289000, Mississippi River at Vicksburg, have been designated as NASQAN stations.

National Water-Quality Surveillance System (NWQSS) Stations are located to bracket major population and industrial centers for the purpose of determining the degree of water-quality degradation and the effectiveness of areawide abatement actions. Stations 07287500, Yazoo River at Yazoo City, and Station 07288800, Yazoo River at Redwood, have been designated as NWQSS stations.

Pesticide program is a network of regularly sampled water-quality stations where additional monthly samples are collected to determine the concentration and distribution of

pesticides in streams whose waters are used for irrigation or in streams in areas where potential contamination could result from the application of the commonly used insecticides and herbicides.

Radiochemical program is a network of regularly sampled water-quality stations where additional samples are collected twice a year (at high and low flow) to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

#### DOWNSTREAM ORDER AND STATION NUMBER

Stations are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the lists of gaging stations and water-quality stations in the front of this report the rank of tributaries is indicated by indentation, each indentation representing one rank.

As an added means of identification, each gaging station, partial-record station, and water-quality station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and gaging stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging or partial-record station. 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 8-digit number for each station, such as 02430000, which appears just to the left of the station name includes the 2-digit part number "02" plus the 6-digit downstream order number 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 (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 the basin.

## SURFACE WATER RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at 5-, 15-, 30- or 60-minute intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6. Surface areas of lakes or reservoirs are determined from instrument surveys using standard methods. The configuration of the reservoir bottom is determined by sounding at many points.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharges are computed from the daily figures. 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 computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

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 on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, adjoining good record, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table



showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents or a table showing the daily contents is given. Tables of daily mean gage heights are included for some streamflow stations. Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the current water year is shown on the reverse side of the front cover to facilitate finding the day of the week for any date.

The descriptions of the gaging stations give the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or contents, general remarks, and notations of revisions of previously published records. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD." The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey unless otherwise qualified. The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE;" it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. The maximum discharge (or contents) and the maximum gage height, the minimum discharge if there is little or no regulation (or minimum contents) and the minimum gage height if it is significant are given under "EXTREMES." The minimum daily discharge is given if there is extensive regulation (also the minimum discharge and gage height if they are abnormally low). In the first paragraph headed "Current year," the data given are for the complete current water year unless otherwise specified. In the second paragraph under "Extremes" headed "Period of record:" the data given are for the period of record given in PERIOD OF RECORD paragraph. Reliable information concerning major floods that occurred outside the period of record is given in the third or last paragraph under "EXTREMES." Unless otherwise qualified, the maximum discharge (or contents) corresponds to the crest stage obtained by use of a water-stage recorder

(graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge, it is given separately. Information pertaining to the accuracy of the discharge records, to conditions that affect the natural flow at the gaging station, and availability of Water Quality records, is given under "REMARKS;" for reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir, is also given under "REMARKS."

Previously published records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISIONS (WATER YEARS)" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge were revised, that fact is brought out by notations 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 revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

Skeleton capacity tables are published for all reservoirs for which records of contents are published on a daily basis.

The daily table for stream-gaging stations gives the 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 may be 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, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches.

In the yearly summary below the monthly summary, the figures following "MAX" are the maximum daily discharges for the calendar and water years; likewise, those following "MIN" are the minimum daily discharges.

Footnotes to the table of daily discharges are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

Peak discharges and their times of occurrence and corresponding gage heights for many stations are listed below the yearly summary. All independent peaks above the selected base are given. The base discharge, which is given in parentheses, is selected so that an average of about three peaks a year can be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subjected to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330.

For gaging stations on lakes and reservoirs the data presented comprise a description of the station and a table showing daily contents. A skeleton table of capacity at given stages is published for all reservoirs.

Data collected at partial-record stations and miscellaneous sites are given in three tables at the end of the surface-water records in this report. The first is a table of discharge measurements at low-flow partial-record stations, the second is a table of annual maximum stage and discharge at crest-stage stations, and the third is a table of discharge measurements at miscellaneous sites.

### Accuracy of data

The accuracy of discharge data 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 observations of stage, measurements of discharge, and interpretation of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges is within 5 percent; "good" within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; to 3 significant figures between 1,000 and 1,000,000 cfs; and to 4 significant figures above 1,000,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures 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 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.



### Publications

In each water-supply paper entitled, "Surface Water Supply of the United States" there is a list of numbers of preceding water-supply papers containing streamflow information for the area covered by that report. In addition, there is a list of numbers of water-supply papers containing detailed information on major floods in the area. Records for stations in Mississippi for the period October 1960 to September 1965 are in Water-Supply Papers 1906 and 1920.

Two series of summary reports entitled, "Compilation of Records of Surface Waters of the United States" have been published; the first series covers the entire period of record through September 1950 and the second series covers the period October 1950 to September 1960. These reports contain summaries of monthly and annual discharge and month-end storage for all previously published records, as well as some records not contained in the annual series of water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station. Records for stations in Mississippi are compiled in Water-Supply Papers 1304 and 1311 through September 1950, and in 1724 and 1731 for October 1950 to September 1960.

Special reports on major floods or droughts or of other hydrologic studies for the area have been issued in publications other than water-supply papers. Information relative to these reports may be obtained from the district office.

### Other data available

Information of a more detailed nature than that published for most of the gaging stations, such as discharge measurements, gage-height records, and rating tables, is on file in the district office. Also most gaging station records are available in computer-usable form and many statistical analyses have been made.

### Records of discharge collected by agencies other than the Geological Survey

Records of discharge not published by the Geological Survey were collected in Mississippi at 93 sites during the water year by the following agencies: Records of daily discharge were collected at 9 sites by the Agricultural Research Service, U.S. Department of Agriculture; and at 4

sites by the Corps of Engineers, U.S. Army. In addition, records of stage, with periodic discharge observations, were also collected by the Corps of Engineers at approximately 80 additional sites. Information on specific sites can be obtained from the district office of the U.S. Geological Survey at the address given on page II of this report.

## WATER QUALITY RECORDS

### Collection and examination of data

Water samples for analyses usually are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents in this report.

Descriptive statements are given for water-quality stations located at or near streamflow stations. Given are location, drainage area, periods of record for the various water-quality data, extremes of pertinent data, and general remarks, in a format similar to that used for streamflow gaging stations.

Water-quality information is presented for chemical and microbiological quality and water temperature. Chemical quality includes concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, sodium-adsorption-ratio, specific conductance, and pH. Microbiological information includes quantitative identification of certain bacteriological indicator organisms. Water-temperature data represent periodic observations except for stations where a continuous temperature recorder furnished information from which daily minimums and maximums are obtained.

Prior to the 1968 water year, data for chemical constituents and concentration of suspended sediment were reported in parts per million (ppm) and water temperatures were reported in degrees Fahrenheit (°F). In October 1967 the U.S. Geological Survey began reporting data for chemical constituents and concentrations of suspended sediment in milligrams per litre (mg/l) and water temperatures in degrees Celsius (°C). In waters with a density of 1.000 g/ml (grams per millilitre), parts per million and milligrams per litre can be considered equal. In waters with a density greater than 1.000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per litre. To convert temperatures in degrees Celsius to degrees Fahrenheit, see table 2 below.

Table 2.--Degrees Celsius (°C) to degrees Fahrenheit (°F)  
(Temperature reported to nearest 0.5°C)

| °C  | °F | °C   | °F | °C   | °F | °C   | °F  | °C   | °F  |
|-----|----|------|----|------|----|------|-----|------|-----|
| 0.0 | 32 | 10.0 | 50 | 20.0 | 68 | 30.0 | 86  | 40.0 | 104 |
| .5  | 33 | 10.5 | 51 | 20.5 | 69 | 30.5 | 87  | 40.5 | 105 |
| 1.0 | 34 | 11.0 | 52 | 21.0 | 70 | 31.0 | 88  | 41.0 | 106 |
| 1.5 | 35 | 11.5 | 53 | 21.5 | 71 | 31.5 | 89  | 41.5 | 107 |
| 2.0 | 36 | 12.0 | 54 | 22.0 | 72 | 32.0 | 90  | 42.0 | 108 |
| 2.5 | 36 | 12.5 | 54 | 22.5 | 72 | 32.5 | 90  | 42.5 | 108 |
| 3.0 | 37 | 13.0 | 55 | 23.0 | 73 | 33.0 | 91  | 43.0 | 109 |
| 3.5 | 38 | 13.5 | 56 | 23.5 | 74 | 33.5 | 92  | 43.5 | 110 |
| 4.0 | 39 | 14.0 | 57 | 24.0 | 75 | 34.0 | 93  | 44.0 | 111 |
| 4.5 | 40 | 14.5 | 58 | 24.5 | 76 | 34.5 | 94  | 44.5 | 112 |
| 5.0 | 41 | 15.0 | 59 | 25.0 | 77 | 35.0 | 95  | 45.0 | 113 |
| 5.5 | 42 | 15.5 | 60 | 25.5 | 78 | 35.5 | 96  | 45.5 | 114 |
| 6.0 | 43 | 16.0 | 61 | 26.0 | 79 | 36.0 | 97  | 46.0 | 115 |
| 6.5 | 44 | 16.5 | 62 | 26.5 | 80 | 36.5 | 98  | 46.5 | 116 |
| 7.0 | 45 | 17.0 | 63 | 27.0 | 81 | 37.0 | 99  | 47.0 | 117 |
| 7.5 | 45 | 17.5 | 63 | 27.5 | 81 | 37.5 | 99  | 47.5 | 117 |
| 8.0 | 46 | 18.0 | 64 | 28.0 | 82 | 38.0 | 100 | 48.0 | 118 |
| 8.5 | 47 | 18.5 | 65 | 28.5 | 83 | 38.5 | 101 | 48.5 | 119 |
| 9.0 | 48 | 19.0 | 66 | 29.0 | 84 | 39.0 | 102 | 49.0 | 120 |
| 9.5 | 49 | 19.5 | 67 | 29.5 | 85 | 39.5 | 103 | 49.5 | 121 |

$$^{\circ}\text{C} = 5/9 (^{\circ}\text{F} - 32) \text{ or } ^{\circ}\text{F} = 9/5 (^{\circ}\text{C}) + 32.$$

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements in micrograms per litre instead of milligrams per litre. (See "Definition of Terms," p. 6, and table for converting English Units to SI Units, p. 27.)

### Solutes

Most methods for collecting and analyzing water samples to determine the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman. The method for determining elemental constituents by emission spectrographic techniques is described by Barnett and Mallory. Analysis of pesticides, herbicides, and organic substances in water are described by Goerlitz and Lamar, Lamar, Goerlitz, and Law, and Goerlitz and Brown. The collection and analysis of aquatic, biological and microbiological samples are described by Slack and others.

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.

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 the 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 noncontinuous-digital monitors, the records consist of daily maximum and minimum 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 U.S. Geological Survey district office at the address given on the back of the title page of this report.

### Temperature

Water temperatures are measured at most of the water-quality stations. Large streams have a small diurnal temperature change while small, 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 continuously recording thermographs are present, the records consist of maximum and minimum temperatures for each day and the monthly average.



Publications

The annual series of water-supply papers that contain information on quality of surface waters in Mississippi are listed below.

| <u>Water years</u> | <u>WSP No.</u> |
|--------------------|----------------|
| 1963               | 1947           |
| 1964               | 1954           |
| 1965               | 1961           |
| 1966               | 1991, 1994     |
| 1967               | 2011, 2014     |
| 1968               | 2092           |

## HYDROLOGIC CONDITIONS

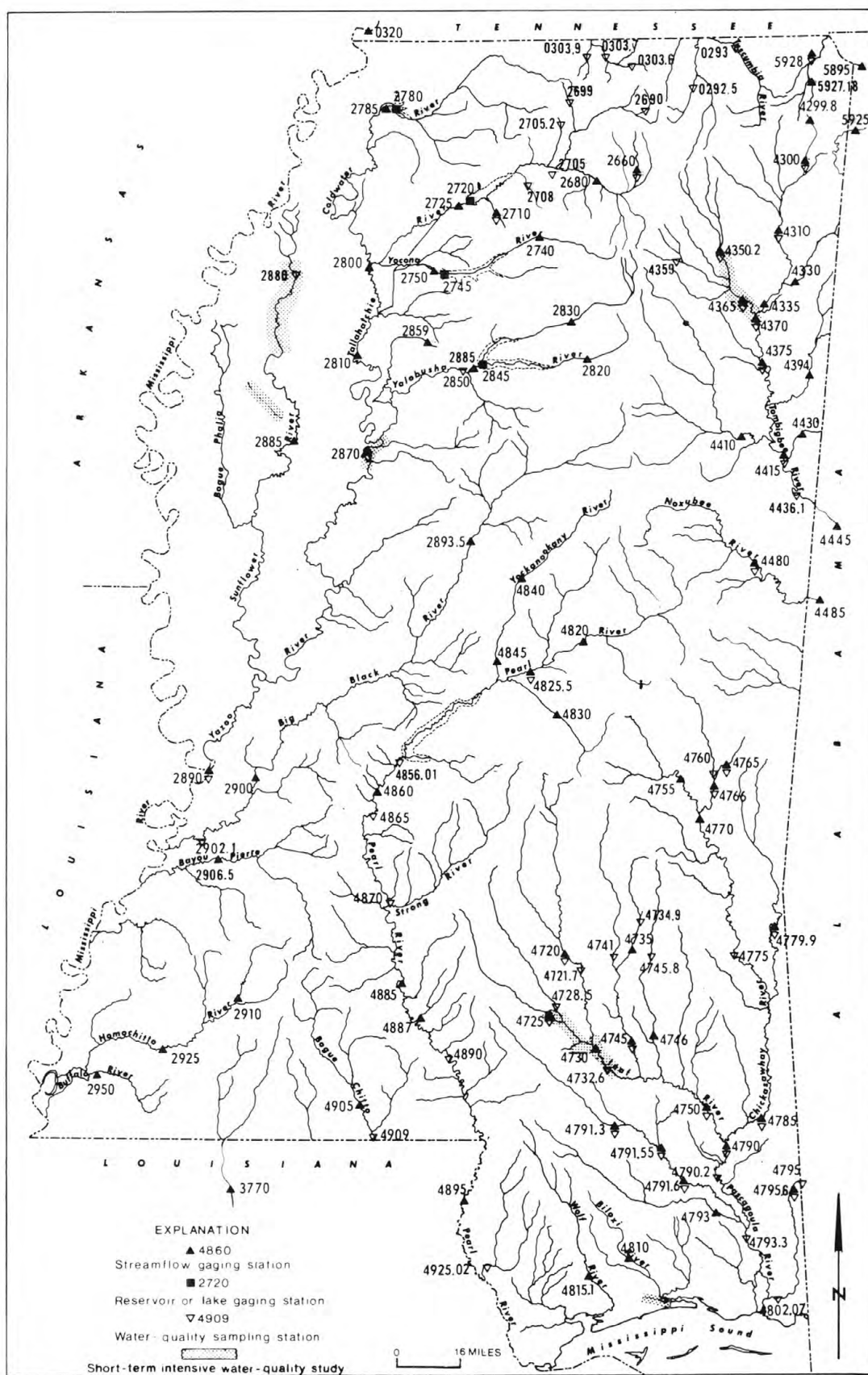
Streamflow for the 1974 water year was excessive (in the upper 25 percent of record) throughout the State. The yearly flow has been exceeded only once at several long-term gaging stations and only twice at many more.

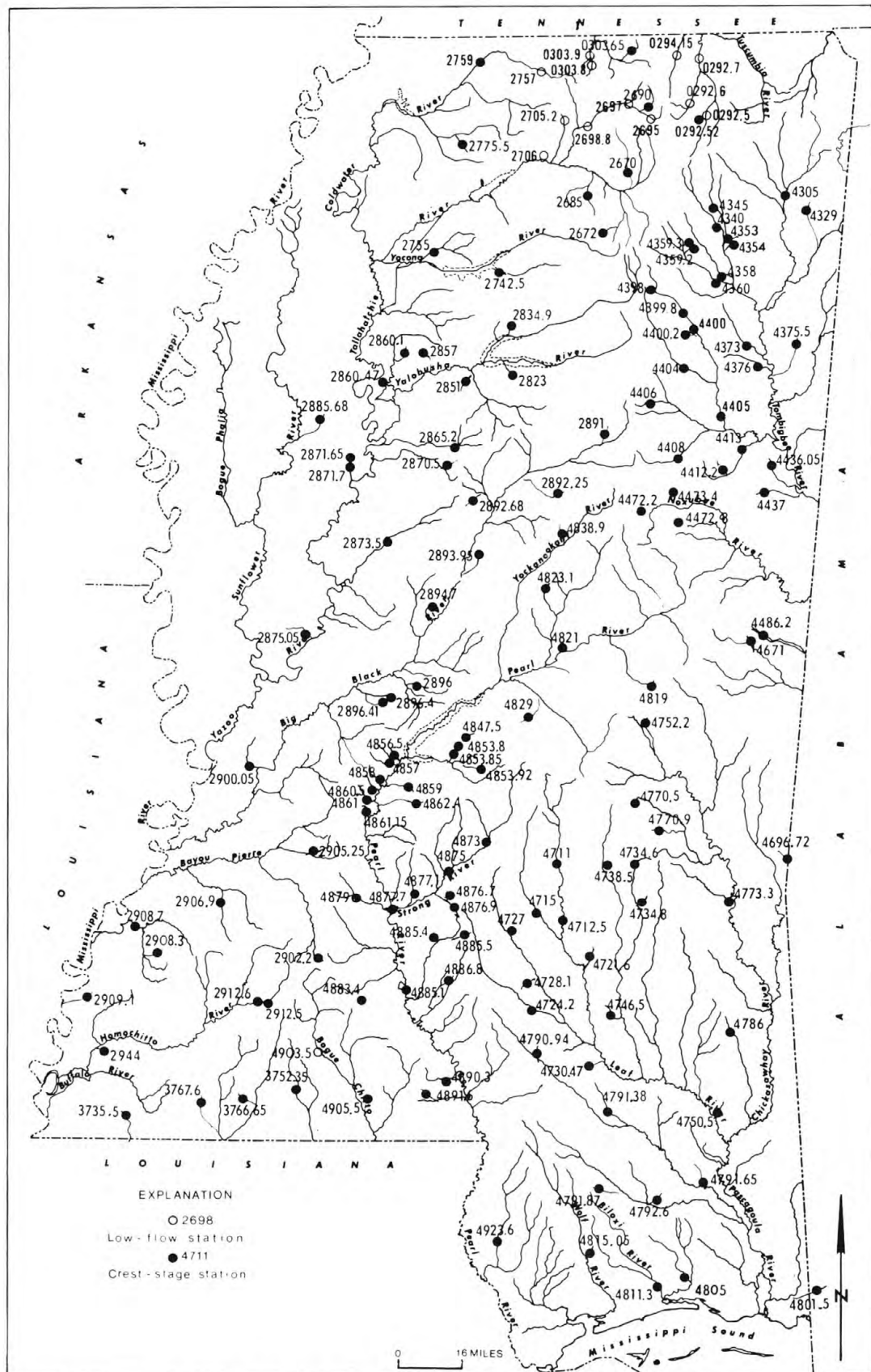
Monthly and yearly mean discharge for the 1974 water year at three gaging stations located in the northern, central, and southern parts of Mississippi are shown in figure 3. The medians of the monthly and yearly discharges for the reference period 1931-60 are also shown. The graph clearly shows that flows were well above median except for March, July, and August throughout the State and September in the central part of the State.

Notable rises were experienced throughout the State in January and February. Approximately half of the annual runoff occurred during these two months in the northern and central parts of the State. The largest flood occurred in the southern part of the State in April. A report on this flood is included at the end of Part I of this report.

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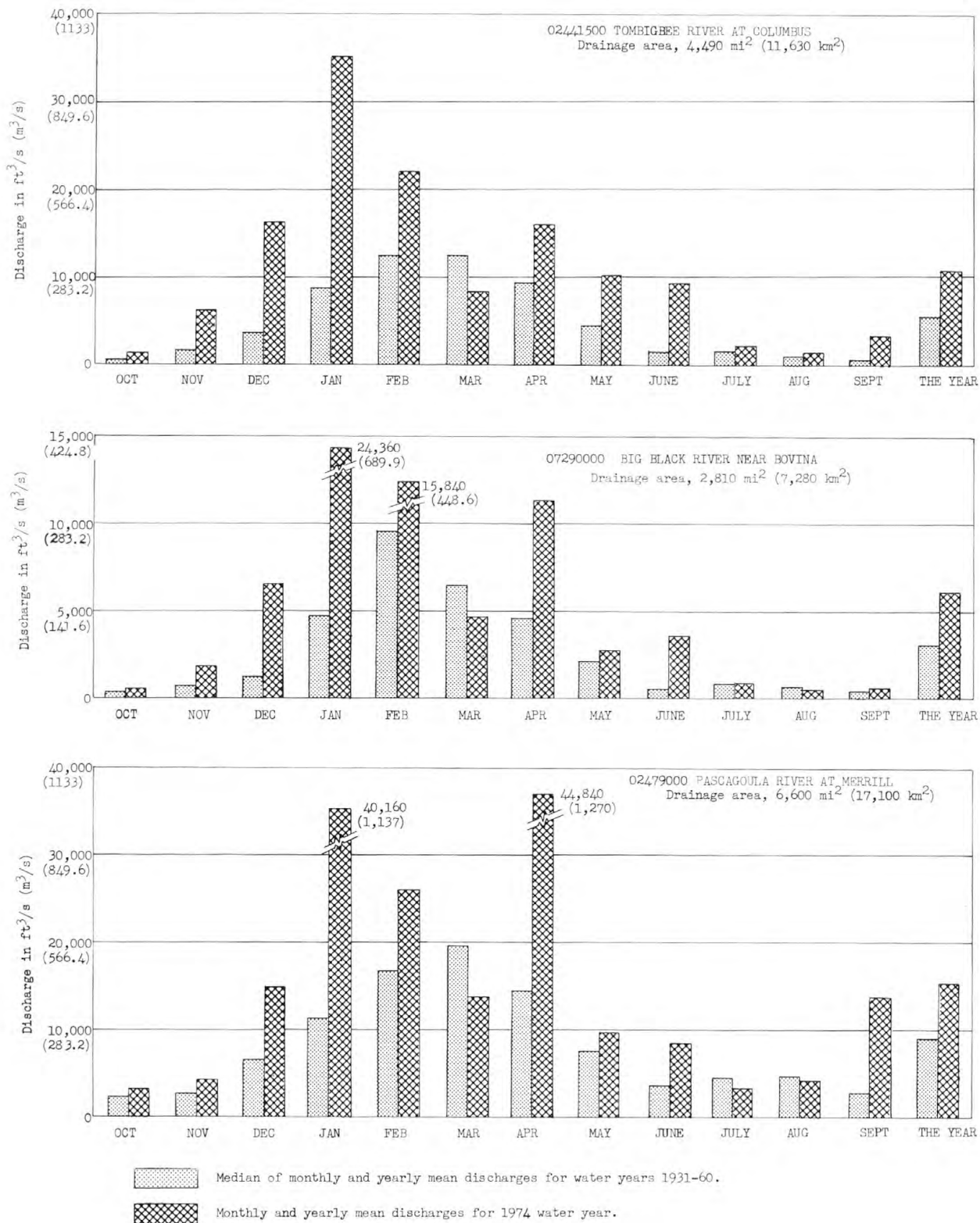


Figure 3.--Comparison of discharge at three long-term representative gaging stations during 1974 water year with median discharge for period 1931-60.

Table 3.--Factors for converting English units to International System (SI) units

The following factors may be used to convert the English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

| Multiply English units                     | By                     | To obtain SI units                               |
|--------------------------------------------|------------------------|--------------------------------------------------|
| <i>Length</i>                              |                        |                                                  |
| inches (in)                                | 25.4                   | millimeters (mm)                                 |
|                                            | .0254                  | meters (m)                                       |
| feet (ft)                                  | .3048                  | meters (m)                                       |
| yards (yd)                                 | .9144                  | meters (m)                                       |
| rods                                       | 5.0292                 | meters (m)                                       |
| miles (mi)                                 | 1.609                  | kilometers (km)                                  |
| <i>Area</i>                                |                        |                                                  |
| acres                                      | 4047                   | square meters (m <sup>2</sup> )                  |
|                                            | .4047                  | *hectares (ha)                                   |
|                                            | .4047                  | square hectometer (hm <sup>2</sup> )             |
|                                            | .004047                | square kilometers (km <sup>2</sup> )             |
| square miles (mi <sup>2</sup> )            | 2.590                  | square kilometers (km <sup>2</sup> )             |
| <i>Volume</i>                              |                        |                                                  |
| gallons (gal)                              | 3.785                  | **liters (l)                                     |
|                                            | 3.785                  | cubic decimeters (dm <sup>3</sup> )              |
|                                            | 3.785x10 <sup>-3</sup> | cubic meters (m <sup>3</sup> )                   |
| million gallons (10 <sup>6</sup> gal)      | 3785                   | cubic meters (m <sup>3</sup> )                   |
|                                            | 3.785x10 <sup>-3</sup> | cubic hectometers (hm <sup>3</sup> )             |
| cubic feet (ft <sup>3</sup> )              | 28.32                  | cubic decimeters (dm <sup>3</sup> )              |
|                                            | .02832                 | cubic meters (m <sup>3</sup> )                   |
| cfs-day (ft <sup>3</sup> /s-day)           | 2447                   | cubic meters (m <sup>3</sup> )                   |
|                                            | 2.447x10 <sup>-3</sup> | cubic hectometers (hm <sup>3</sup> )             |
| acre-feet (acre-ft)                        | 1233                   | cubic meters (m <sup>3</sup> )                   |
|                                            | 1.233x10 <sup>-3</sup> | cubic hectometers (hm <sup>3</sup> )             |
|                                            | 1.233x10 <sup>-6</sup> | cubic kilometers (km <sup>3</sup> )              |
| <i>Flow</i>                                |                        |                                                  |
| cubic feet per second (ft <sup>3</sup> /s) | 28.32                  | liters per second (l/s)                          |
|                                            | 28.32                  | cubic decimeters per second (dm <sup>3</sup> /s) |
|                                            | .02832                 | cubic meters per second (m <sup>3</sup> /s)      |
| gallons per minute (gpm)                   | .06309                 | liters per second (l/s)                          |
|                                            | .06309                 | cubic decimeters per second (dm <sup>3</sup> /s) |
|                                            | 6.309x10 <sup>-5</sup> | cubic meters per second (m <sup>3</sup> /s)      |
| million gallons per day (mgd)              | 43.81                  | cubic decimeters per second (dm <sup>3</sup> /s) |
|                                            | .04381                 | cubic meters per second (m <sup>3</sup> /s)      |
| <i>Mass</i>                                |                        |                                                  |
| ton (short)                                | .9072                  | tonne (t)                                        |

\*The unit hectare is approved for use with the International System (SI) for a limited time. See NBS Special Bulletin 330, p.15, 1972 edition.

\*\*The unit liter is accepted for use with the International System (SI). See NBS Special Bulletin 330, p. 13, 1972 edition.



PART 1. SURFACE WATER RECORDS



## EASTERN GULF OF MEXICO BASINS

## MOBILE RIVER BASIN

02429980 Pollard Mill Branch near Paden, Miss.

LOCATION.--Lat 34°39'10", long 88°15'00", in SE¼ sec.9, T.5 S., R.10 E., Chickasaw meridian, Tishomingo County, at culvert on State Highway 30, 0.8 mile (1.3 km) east of Paden.

DRAINAGE AREA.--2.05 mi<sup>2</sup> (5.31 km<sup>2</sup>).

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

GAGE.--Water-stage recorder and culvert control. Rain gage located on upstream side of road near culvert entrance prior to July 1, 1974.

EXTREMES.--Water year 1973: Maximum discharge, 233 ft<sup>3</sup>/s (6.60 m<sup>3</sup>/s) Jan. 11 (gage height, 4.33 ft or 1.320 m), from rating extended above 20 ft<sup>3</sup>/s (0.57 m<sup>3</sup>/s) on basis of computation of peak flow through culvert; minimum, 3.1 ft<sup>3</sup>/s (0.088 m<sup>3</sup>/s) June 21, 22, Aug. 6, 19, 20, 21, but may have been less during period of no gage-height record Oct. 1-24; minimum gage height 2.36 ft (0.719 m) Oct. 24-27.

Period of record: Maximum discharge, 445 ft<sup>3</sup>/s (12.6 m<sup>3</sup>/s) Mar. 16, 1973 (gage height, 5.65 ft or 1.722 m), from rating extended above 20 ft<sup>3</sup>/s (0.57 m<sup>3</sup>/s) on basis of computation of peak flow through culvert; minimum, 2.6 ft<sup>3</sup>/s (0.074 m<sup>3</sup>/s) Oct. 13; minimum gage height, 2.36 ft (0.719 m) Oct. 24-27, 1974.

REMARKS.--Records poor.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY         | OCT           | NOV       | DEC     | JAN     | FEB       | MAR      | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|---------------|-----------|---------|---------|-----------|----------|-------|-------|-------|-------|-------|-------|
| 1           | 4.0           | 5.1       | 7.0     | 7.0     | 8.0       | 5.5      | 6.1   | 4.0   | 35    | 4.5   | 3.5   | 4.5   |
| 2           | 5.0           | 4.6       | 6.0     | 6.2     | 18        | 5.5      | 7.3   | 4.5   | 8.8   | 4.5   | 3.5   | 4.5   |
| 3           | 4.0           | 4.5       | 5.5     | 6.2     | 11        | 5.5      | 7.9   | 7.0   | 6.0   | 4.5   | 4.0   | 15    |
| 4           | 3.7           | 7.9       | 7.0     | 15      | 9.0       | 5.5      | 6.4   | 20    | 4.7   | 4.5   | 6.0   | 6.0   |
| 5           | 3.5           | 5.7       | 6.0     | 10      | 8.0       | 5.5      | 5.0   | 10    | 13    | 17    | 3.5   | 5.0   |
| 6           | 3.5           | 4.7       | 5.5     | 7.0     | 7.0       | 6.0      | 4.5   | 5.0   | 6.2   | 7.0   | 3.5   | 5.0   |
| 7           | 3.5           | 4.7       | 5.0     | 6.7     | 6.6       | 5.5      | 4.5   | 4.5   | 15    | 6.0   | 6.8   | 5.0   |
| 8           | 4.0           | 5.3       | 5.0     | 6.7     | 6.3       | 5.0      | 5.0   | 4.5   | 21    | 6.0   | 5.4   | 6.0   |
| 9           | 4.5           | 4.8       | 5.0     | 26      | 6.0       | 5.0      | 5.0   | 5.0   | 8.0   | 6.0   | 4.7   | 10    |
| 10          | 4.0           | 4.7       | 5.0     | 75      | 5.8       | 4.5      | 4.5   | 6.0   | 7.0   | 7.0   | 4.7   | 6.0   |
| 11          | 3.8           | 4.7       | 5.0     | 120     | 5.6       | 4.5      | 4.5   | 5.0   | 5.4   | 23    | 4.1   | 5.0   |
| 12          | 3.5           | 4.7       | 5.0     | 59      | 5.4       | 4.5      | 8.0   | 9.0   | 6.1   | 10    | 8.2   | 5.0   |
| 13          | 3.5           | 4.7       | 5.0     | 53      | 5.2       | 4.5      | 25    | 5.0   | 4.7   | 5.0   | 8.2   | 8.0   |
| 14          | 7.0           | 4.7       | 5.0     | 62      | 35        | 4.5      | 10    | 4.5   | 4.8   | 4.5   | 5.4   | 10    |
| 15          | 6.0           | 4.9       | 5.0     | 33      | 21        | 4.5      | 6.0   | 12    | 9.8   | 4.0   | 4.7   | 7.0   |
| 16          | 5.0           | 5.0       | 5.0     | 14      | 20        | 4.5      | 5.2   | 25    | 4.7   | 3.5   | 4.1   | 5.5   |
| 17          | 4.5           | 4.7       | 5.0     | 10      | 14        | 4.5      | 4.9   | 10    | 4.1   | 3.5   | 4.1   | 5.0   |
| 18          | 4.2           | 4.7       | 5.0     | 9.0     | 11        | 4.5      | 4.7   | 6.0   | 5.4   | 3.5   | 4.1   | 4.5   |
| 19          | 4.0           | 4.7       | 5.5     | 8.0     | 10        | 4.9      | 4.5   | 5.0   | 4.1   | 4.0   | 3.6   | 4.5   |
| 20          | 3.8           | 4.7       | 13      | 21      | 8.0       | 8.4      | 4.5   | 4.5   | 4.1   | 5.0   | 3.6   | 4.5   |
| 21          | 3.7           | 35        | 10      | 14      | 7.0       | 32       | 4.5   | 4.2   | 3.6   | 4.0   | 5.4   | 5.0   |
| 22          | 3.7           | 15        | 7.0     | 10      | 20        | 8.3      | 4.5   | 8.6   | 4.2   | 4.0   | 5.4   | 4.5   |
| 23          | 3.7           | 7.0       | 6.0     | 10      | 10        | 6.9      | 5.4   | 6.1   | 4.7   | 5.0   | 5.0   | 4.0   |
| 24          | 3.7           | 5.6       | 6.0     | 50      | 8.0       | 5.4      | 4.5   | 4.1   | 4.7   | 6.0   | 4.7   | 4.0   |
| 25          | 3.7           | 5.6       | 8.0     | 28      | 7.0       | 5.8      | 4.4   | 4.1   | 4.8   | 4.5   | 4.0   | 5.0   |
| 26          | 3.8           | 100       | 30      | 20      | 6.2       | 5.5      | 4.2   | 6.7   | 4.7   | 4.5   | 4.0   | 6.1   |
| 27          | 4.0           | 25        | 15      | 15      | 5.5       | 5.5      | 4.0   | 4.7   | 4.1   | 5.0   | 4.0   | 5.4   |
| 28          | 9.5           | 15        | 10      | 35      | 5.5       | 5.5      | 4.0   | 4.1   | 4.1   | 4.0   | 4.0   | 5.4   |
| 29          | 4.6           | 12        | 8.0     | 21      | -----     | 8.3      | 4.0   | 4.1   | 4.4   | 3.5   | 5.0   | 4.7   |
| 30          | 4.3           | 10        | 7.0     | 14      | -----     | 5.2      | 4.0   | 4.1   | 4.5   | 3.5   | 7.0   | 4.7   |
| 31          | 11            | -----     | 10      | 10      | -----     | 4.9      | ----- | 6.1   | ----- | 3.5   | 5.0   | ----- |
| TOTAL       | 140.7         | 329.7     | 232.5   | 781.8   | 290.1     | 196.1    | 177.0 | 213.4 | 221.7 | 180.5 | 149.2 | 174.8 |
| MEAN        | 4.54          | 11.0      | 7.50    | 25.2    | 10.4      | 6.33     | 5.90  | 6.88  | 7.39  | 5.82  | 4.81  | 5.83  |
| MAX         | 11            | 100       | 30      | 120     | 35        | 32       | 25    | 25    | 35    | 23    | 8.2   | 15    |
| MIN         | 3.5           | 4.5       | 5.0     | 6.2     | 5.2       | 4.5      | 4.0   | 4.0   | 3.6   | 3.5   | 3.5   | 4.0   |
| CFSM        | 2.21          | 5.37      | 3.66    | 12.3    | 5.07      | 3.09     | 2.88  | 3.36  | 3.60  | 2.84  | 2.35  | 2.84  |
| IN.         | 2.55          | 5.98      | 4.22    | 14.19   | 5.26      | 3.56     | 3.21  | 3.87  | 4.02  | 3.28  | 2.71  | 3.17  |
| CAL YR 1973 | TOTAL 3,661.5 | MEAN 10.0 | MAX 188 | MIN 3.5 | CFSM 4.88 | IN 66.44 |       |       |       |       |       |       |
| WTR YR 1974 | TOTAL 3,087.5 | MEAN 8.46 | MAX 120 | MIN 3.5 | CFSM 4.13 | IN 56.03 |       |       |       |       |       |       |

## MOBILE RIVER BASIN

31

02430000 Mackeys Creek near Dennis, Miss.

LOCATION.--Lat 34°31'34", long 88°19'22", in NE¼SW¼ sec.26, T.6 S., R.9 E., Chickasaw meridian, Tishomingo County, on left bank at downstream side of old crossing 0.1 mile (0.2 km) downstream from bridge on State Highway 4 at Narrows dam site, 6 miles (10 km) southwest of Dennis, and 10 miles (16 km) upstream from confluence with Big Brown Creek.

DRAINAGE AREA.--66.8 mi<sup>2</sup> (173 km<sup>2</sup>).

PERIOD OF RECORD.--October 1937 to current year. Prior to January 1944, monthly discharge only, published in WSP 1304. Prior to October 1966, published as Mackys Creek near Dennis.

GAGE.--Water-stage recorder. Datum of gage is 333.47 ft (101.642 m) above mean sea level (levels by Corps of Engineers). Prior to Oct. 15, 1948, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--37 years, 104 ft<sup>3</sup>/s (2.945 m<sup>3</sup>/s), 21.14 in/yr (537 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,610 ft<sup>3</sup>/s (102 m<sup>3</sup>/s) Jan. 11 (gage height, 18.77 ft or 5.721 m); minimum, 34 ft<sup>3</sup>/s (0.96 m<sup>3</sup>/s) Oct. 13 (gage height, 2.09 ft or 0.637 m).

Period of record: Maximum discharge, 16,300 ft<sup>3</sup>/s (462 m<sup>3</sup>/s) Mar. 21, 1955 (gage height, 28.44 ft or 8.669 m), from rating curve extended above 6,700 ft<sup>3</sup>/s (190 m<sup>3</sup>/s) on basis of slope-area measurement of peak flow; minimum since Jan. 1, 1944, 8.2 ft<sup>3</sup>/s (0.23 m<sup>3</sup>/s) Sept. 3, 4, 5, 1954.

REMARKS.--Records good. Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1504: 1939-40(M), 1944-46(M), 1948, 1949(P), 1950(M), 1951. WRD Miss. 1972: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY         | OCT          | NOV   | DEC      | JAN       | FEB    | MAR       | APR      | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|--------------|-------|----------|-----------|--------|-----------|----------|-------|-------|-------|-------|-------|
| 1           | 53           | 152   | 150      | 165       | 183    | 140       | 139      | 84    | 306   | 51    | 39    | 69    |
| 2           | 76           | 90    | 129      | 126       | 441    | 134       | 287      | 99    | 402   | 51    | 41    | 55    |
| 3           | 59           | 78    | 113      | 299       | 406    | 126       | 159      | 119   | 151   | 56    | 54    | 126   |
| 4           | 50           | 63    | 150      | 597       | 222    | 126       | 255      | 410   | 115   | 57    | 79    | 92    |
| 5           | 44           | 112   | 146      | 271       | 181    | 128       | 154      | 274   | 129   | 146   | 73    | 73    |
| 6           | 44           | 94    | 105      | 195       | 172    | 136       | 125      | 150   | 180   | 163   | 51    | 69    |
| 7           | 46           | 73    | 90       | 213       | 174    | 122       | 118      | 118   | 400   | 93    | 51    | 58    |
| 8           | 74           | 94    | 85       | 156       | 152    | 114       | 135      | 107   | 790   | 77    | 114   | 79    |
| 9           | 68           | 104   | 81       | 393       | 140    | 96        | 124      | 132   | 280   | 117   | 73    | 114   |
| 10          | 47           | 76    | 79       | 742       | 131    | 96        | 112      | 134   | 180   | 80    | 63    | 85    |
| 11          | 44           | 68    | 74       | 2,930     | 124    | 110       | 107      | 119   | 145   | 173   | 63    | 59    |
| 12          | 38           | 62    | 73       | 1,160     | 118    | 120       | 214      | 198   | 120   | 349   | 65    | 61    |
| 13          | 35           | 61    | 75       | 371       | 115    | 114       | 504      | 128   | 106   | 98    | 133   | 59    |
| 14          | 132          | 60    | 79       | 344       | 221    | 104       | 237      | 102   | 100   | 73    | 108   | 73    |
| 15          | 116          | 60    | 74       | 463       | 714    | 98        | 162      | 258   | 94    | 55    | 80    | 86    |
| 16          | 73           | 81    | 69       | 312       | 489    | 110       | 137      | 509   | 104   | 61    | 72    | 72    |
| 17          | 57           | 73    | 63       | 250       | 409    | 110       | 124      | 204   | 89    | 55    | 68    | 63    |
| 18          | 49           | 65    | 62       | 190       | 243    | 102       | 117      | 141   | 88    | 48    | 63    | 57    |
| 19          | 46           | 60    | 63       | 140       | 262    | 110       | 113      | 117   | 95    | 44    | 59    | 55    |
| 20          | 46           | 60    | 187      | 460       | 200    | 156       | 108      | 103   | 85    | 49    | 57    | 54    |
| 21          | 45           | 316   | 139      | 310       | 170    | 684       | 104      | 95    | 76    | 73    | 57    | 52    |
| 22          | 44           | 229   | 93       | 210       | 439    | 417       | 121      | 115   | 70    | 63    | 59    | 52    |
| 23          | 42           | 106   | 87       | 190       | 259    | 196       | 130      | 285   | 69    | 80    | 59    | 50    |
| 24          | 49           | 124   | 88       | 250       | 195    | 154       | 107      | 132   | 68    | 98    | 56    | 49    |
| 25          | 40           | 124   | 173      | 800       | 160    | 137       | 98       | 102   | 64    | 73    | 55    | 56    |
| 26          | 38           | 124   | 363      | 640       | 144    | 128       | 95       | 118   | 58    | 72    | 55    | 76    |
| 27          | 39           | 780   | 337      | 620       | 146    | 123       | 93       | 131   | 55    | 82    | 56    | 70    |
| 28          | 110          | 1,530 | 172      | 660       | 142    | 123       | 90       | 102   | 54    | 68    | 55    | 56    |
| 29          | 114          | 446   | 143      | 704       | -----  | 232       | 87       | 90    | 53    | 59    | 60    | 60    |
| 30          | 68           | 191   | 126      | 310       | -----  | 159       | 84       | 86    | 52    | 51    | 76    | 54    |
| 31          | 83           | ----- | 197      | 228       | -----  | 124       | -----    | 92    | ----- | 43    | 76    | ----- |
| TOTAL       | 1,869        | 5,556 | 3,865    | 14,697    | 6,752  | 4,829     | 4,441    | 4,844 | 4,578 | 2,658 | 2,070 | 2,084 |
| MEAN        | 60.3         | 185   | 125      | 474       | 241    | 156       | 148      | 156   | 153   | 85.7  | 56.8  | 69.5  |
| MAX         | 132          | 1,530 | 363      | 2,930     | 714    | 684       | 504      | 509   | 790   | 349   | 133   | 126   |
| MIN         | 35           | 60    | 62       | 126       | 115    | 96        | 84       | 82    | 52    | 43    | 39    | 49    |
| CFSM        | .90          | 2.77  | 1.87     | 7.10      | 3.61   | 2.34      | 2.22     | 2.34  | 2.29  | 1.28  | 1.00  | 1.04  |
| IN.         | 1.04         | 3.09  | 2.15     | 8.18      | 3.76   | 2.69      | 2.47     | 2.70  | 2.55  | 1.48  | 1.15  | 1.16  |
| CAL YR 1973 | TOTAL 63,105 |       | MEAN 173 | MAX 5,400 | MIN 35 | CFSM 2.59 | IN 35.14 |       |       |       |       |       |
| WTR YR 1974 | TOTAL 58,243 |       | MEAN 160 | MAX 2,930 | MIN 35 | CFSM 2.40 | IN 32.43 |       |       |       |       |       |

## PEAK DISCHARGE (BASE, 1,500 CFS)

| DATE  | TIME | G. H. | DISCHARGE | DATE  | TIME | G. H. | DISCHARGE |
|-------|------|-------|-----------|-------|------|-------|-----------|
| 11-28 | 0915 | 13.65 | 1,770     | 01-11 | 1330 | 18.77 | 3,610     |

## MOBILE RIVER BASIN

02431000 Tombigbee River near Fulton, Miss.

LOCATION.--Lat 34°15'55", long 88°26'42", in SE¼ sec.27, T.9 S., R.8 E., Chickasaw meridian, Itawamba County, on left bank at downstream side of bridge on U.S. Highway 78, 1,000 ft (300 m) downstream from Twentymile-Fulton Canal, 2.2 miles (3.5 km) west of Fulton, 6.2 miles (10.0 km) upstream from Mantachie Creek Canal, 13.5 miles (21.7 km) downstream from Twentymile Creek Canal, and at mile 421.8 (678.7 km).

DRAINAGE AREA.--612 mi<sup>2</sup> (1,585 km<sup>2</sup>).

PERIOD OF RECORD.--August 1928 to current year. Gage-height records collected at site 800 ft (240 m) upstream 1909-12 are contained in reports of National Weather Service. Prior to October 1966, published as East Fork Tombigbee River near Fulton.

GAGE.--Water-stage recorder. Datum of gage is 242.93 ft (74.045 m) above mean sea level. Prior to Oct. 27, 1934, nonrecording gage at bridge 200 ft (60 m) upstream, and Oct. 27, 1934, to Aug. 22, 1939, nonrecording gage at present site, all at present datum.

AVERAGE DISCHARGE.--46 years, 925 ft<sup>3</sup>/s (26.20 m<sup>3</sup>/s), 20.53 in/yr (521 mm/yr).

EXTREMES.--Current year: Maximum discharge, 23,500 ft<sup>3</sup>/s (666 m<sup>3</sup>/s) Jan. 11 (gage height, 19.10 ft or 5.822 m); minimum discharge, 106 ft<sup>3</sup>/s (3.00 m<sup>3</sup>/s) Oct. 1 (gage height, 5.66 ft or 1.725 m).  
Period of record: Maximum discharge, 82,200 ft<sup>3</sup>/s (2,330 m<sup>3</sup>/s) Mar. 22, 1955 (gage height, 25.75 ft or 7.849 m), from rating curve extended above 48,000 ft<sup>3</sup>/s (1,360 m<sup>3</sup>/s) on basis of estimate of flow made by indirect methods and by logarithmic plotting; minimum observed, 11 ft<sup>3</sup>/s (0.31 m<sup>3</sup>/s) Nov. 15, 1971 (temporary regulation); minimum unregulated, 12 ft<sup>3</sup>/s (0.34 m<sup>3</sup>/s) Aug. 31 to Sept. 2, 1943; minimum gage height, 0.87 ft (0.265 m) Aug. 12, 1930.

REMARKS.--Records good. Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS)--WSP 1032: 1944. WRD Miss. 1972: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY         | OCT           | NOV        | DEC        | JAN     | FEB       | MAR      | APR    | MAY    | JUN    | JUL    | AUG   | SEP   |
|-------------|---------------|------------|------------|---------|-----------|----------|--------|--------|--------|--------|-------|-------|
| 1           | 107           | 460        | 3,530      | 2,020   | 2,560     | 1,010    | 1,140  | 372    | 1,240  | 177    | 193   | 194   |
| 2           | 118           | 362        | 2,400      | 1,680   | 2,550     | 963      | 2,470  | 394    | 4,960  | 155    | 181   | 207   |
| 3           | 155           | 300        | 1,580      | 2,030   | 5,010     | 923      | 3,260  | 441    | 3,920  | 157    | 201   | 457   |
| 4           | 142           | 250        | 1,290      | 6,830   | 4,100     | 869      | 2,940  | 534    | 2,740  | 153    | 205   | 420   |
| 5           | 126           | 321        | 1,550      | 5,250   | 3,060     | 814      | 2,100  | 926    | 1,830  | 204    | 195   | 349   |
| 6           | 115           | 331        | 1,290      | 3,760   | 2,390     | 792      | 1,450  | 931    | 1,240  | 215    | 189   | 295   |
| 7           | 111           | 283        | 1,040      | 3,050   | 2,050     | 771      | 1,120  | 953    | 965    | 287    | 181   | 254   |
| 8           | 459           | 313        | 869        | 2,510   | 1,720     | 736      | 1,040  | 886    | 1,580  | 393    | 213   | 313   |
| 9           | 1,900         | 403        | 733        | 2,660   | 1,420     | 704      | 1,000  | 878    | 2,740  | 681    | 227   | 492   |
| 10          | 1,550         | 324        | 634        | 5,660   | 1,220     | 670      | 867    | 797    | 2,840  | 915    | 353   | 451   |
| 11          | 535           | 278        | 554        | 19,200  | 1,090     | 646      | 778    | 706    | 2,840  | 798    | 289   | 359   |
| 12          | 251           | 248        | 506        | 18,800  | 999       | 738      | 893    | 1,340  | 1,830  | 1,150  | 468   | 297   |
| 13          | 185           | 233        | 489        | 9,590   | 950       | 810      | 2,840  | 1,350  | 1,240  | 1,150  | 882   | 821   |
| 14          | 227           | 222        | 549        | 4,690   | 941       | 722      | 3,580  | 936    | 996    | 881    | 888   | 711   |
| 15          | 377           | 219        | 476        | 4,560   | 2,450     | 680      | 2,990  | 1,420  | 670    | 700    | 539   | 554   |
| 16          | 296           | 228        | 444        | 3,700   | 3,500     | 648      | 2,260  | 5,250  | 583    | 476    | 353   | 422   |
| 17          | 240           | 259        | 416        | 3,100   | 3,990     | 635      | 1,500  | 4,550  | 529    | 329    | 284   | 327   |
| 18          | 192           | 244        | 393        | 2,560   | 3,100     | 597      | 1,080  | 3,280  | 451    | 254    | 237   | 273   |
| 19          | 171           | 232        | 377        | 2,100   | 2,520     | 582      | 894    | 2,350  | 523    | 214    | 202   | 236   |
| 20          | 158           | 223        | 760        | 1,950   | 2,370     | 758      | 771    | 1,470  | 501    | 199    | 181   | 210   |
| 21          | 149           | 1,110      | 1,070      | 3,050   | 1,910     | 2,890    | 677    | 997    | 427    | 186    | 163   | 194   |
| 22          | 143           | 2,260      | 953        | 3,200   | 2,590     | 5,200    | 790    | 840    | 365    | 200    | 171   | 199   |
| 23          | 136           | 1,790      | 782        | 3,220   | 2,870     | 3,920    | 925    | 2,590  | 326    | 390    | 164   | 182   |
| 24          | 130           | 1,660      | 770        | 4,600   | 2,500     | 2,850    | 789    | 2,970  | 299    | 609    | 157   | 159   |
| 25          | 129           | 1,710      | 2,450      | 9,030   | 2,050     | 1,990    | 574    | 2,210  | 272    | 472    | 147   | 179   |
| 26          | 131           | 1,730      | 5,450      | 5,830   | 1,500     | 1,390    | 503    | 1,620  | 247    | 420    | 137   | 215   |
| 27          | 123           | 3,530      | 5,830      | 4,600   | 1,180     | 1,110    | 544    | 1,500  | 229    | 576    | 129   | 258   |
| 28          | 152           | 16,500     | 4,320      | 4,170   | 1,060     | 992      | 484    | 1,490  | 212    | 477    | 125   | 292   |
| 29          | 239           | 11,100     | 3,100      | 5,500   | -----     | 1,140    | 448    | 1,200  | 202    | 344    | 132   | 276   |
| 30          | 240           | 6,160      | 2,350      | 4,440   | -----     | 1,390    | 398    | 956    | 189    | 270    | 165   | 224   |
| 31          | 233           | -----      | 1,880      | 3,350   | -----     | 1,260    | -----  | 725    | -----  | 223    | 182   | ----- |
| TOTAL       | 9,130         | 53,301     | 48,735     | 156,750 | 63,950    | 39,200   | 41,205 | 47,232 | 35,886 | 13,655 | 8,134 | 9,810 |
| MEAN        | 295           | 1,777      | 1,572      | 5,056   | 2,284     | 1,265    | 1,374  | 1,524  | 1,230  | 440    | 262   | 327   |
| MAX         | 1,400         | 16,500     | 5,830      | 19,200  | 5,010     | 5,200    | 3,580  | 5,250  | 4,960  | 1,150  | 888   | 821   |
| MIN         | 107           | 219        | 377        | 1,680   | 941       | 532      | 398    | 372    | 189    | 153    | 125   | 159   |
| CFSM        | .48           | 2.90       | 2.57       | 8.26    | 3.73      | 2.07     | 2.25   | 2.49   | 2.01   | .72    | .43   | .53   |
| IN.         | .55           | 3.24       | 2.96       | 9.53    | 3.89      | 2.38     | 2.50   | 2.87   | 2.24   | .83    | .49   | .50   |
| CAL YR 1973 | TOTAL 623,034 | MEAN 1,707 | MAX 42,800 | MIN 84  | CFSM 2.79 | IN 37.97 |        |        |        |        |       |       |
| WTR YR 1974 | TOTAL 527,989 | MEAN 1,447 | MAX 19,200 | MIN 107 | CFSM 2.35 | IN 32.09 |        |        |        |        |       |       |

## PEAK DISCHARGE (BASE, 8,000 CFS)

| DATE  | TIME | G.HT. | DISCHARGE | DATE  | TIME | G.HT. | DISCHARGE |
|-------|------|-------|-----------|-------|------|-------|-----------|
| 11-28 | 1300 | 18.50 | 18,700    | 01-25 | 0800 | 17.45 | 10,500    |
| 01-11 | 1900 | 19.10 | 23,500    |       |      |       |           |

02433000 Bull Mountain Creek near Smithville, Miss.

LOCATION.--Lat 34°05'18", long 88°23'26", in SW¼SE¼ sec.30, T.11 S., R.9 E., Chickasaw meridian, Itawamba County, on right bank at downstream side of old crossing 200 ft (60 m) upstream from bridge on State Highway 25, 0.8 mile (1.3 km) upstream from Mississippi Railway bridge, 1.1 miles (1.8 km) north of Smithville, and 3.5 miles (5.6 km) upstream from mouth.

DRAINAGE AREA.--336 mi<sup>2</sup> (870 km<sup>2</sup>).

PERIOD OF RECORD.--October 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 234.81 ft (71.570 m) above mean sea level (levels by Corps of Engineers). Prior to Oct. 15, 1948, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--34 years, 552 ft<sup>3</sup>/s (15.63 m<sup>3</sup>/s), 22.31 in/yr (567 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,820 ft<sup>3</sup>/s (193 m<sup>3</sup>/s) Jan. 12 (gage height, 12.53 ft or 3.819 m); minimum discharge, 60 ft<sup>3</sup>/s (1.70 m<sup>3</sup>/s) part of each day Oct. 25-28; minimum gage height, 2.89 ft (0.881 m) Aug. 28.

Period of record: Maximum discharge, 44,400 ft<sup>3</sup>/s (1,260 m<sup>3</sup>/s) Mar. 16, 1973 (gage height, 18.26 ft or 5.566 m), minimum, 19 ft<sup>3</sup>/s (0.54 m<sup>3</sup>/s) Aug. 28 to Sept. 3, 1943 (period of doubtful gage-height record), Sept. 10, 13, 14, 15, 1954.

Flood in December 1926 reached a stage of 15.7 ft (4.785 m) from floodmark (discharge, about 29,000 ft<sup>3</sup>/s or 821 m<sup>3</sup>/s), from information by Corps of Engineers.

REMARKS.--Records good except those for periods of no gage height, which are fair.

REVISIONS (WATER YEARS).--WSP 1504: 1948. WRD Miss. 1972: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY         | OCT           | NOV      | DEC        | JAN    | FEB       | MAR      | APR    | MAY    | JUN    | JUL   | AUG   | SEP   |
|-------------|---------------|----------|------------|--------|-----------|----------|--------|--------|--------|-------|-------|-------|
| 1           | 100           | 250      | 3,000      | 1,080  | 1,650     | 757      | 1,100  | 520    | 700    | 150   | 123   | 236   |
| 2           | 101           | 230      | 2,000      | 1,050  | 1,830     | 739      | 1,000  | 500    | 3,500  | 140   | 123   | 205   |
| 3           | 82            | 180      | 1,300      | 967    | 2,530     | 679      | 1,500  | 480    | 3,000  | 140   | 122   | 407   |
| 4           | 74            | 150      | 900        | 1,230  | 3,150     | 634      | 2,500  | 544    | 2,000  | 130   | 117   | 478   |
| 5           | 71            | 190      | 1,000      | 1,410  | 2,650     | 592      | 2,000  | 676    | 1,300  | 140   | 117   | 276   |
| 6           | 69            | 180      | 900        | 1,530  | 1,980     | 561      | 1,700  | 709    | 900    | 300   | 114   | 201   |
| 7           | 73            | 160      | 700        | 1,370  | 1,590     | 550      | 1,400  | 544    | 800    | 400   | 104   | 186   |
| 8           | 123           | 190      | 600        | 1,250  | 1,440     | 520      | 1,100  | 460    | 1,200  | 350   | 104   | 237   |
| 9           | 92            | 230      | 500        | 1,250  | 1,260     | 440      | 1,000  | 525    | 2,000  | 400   | 110   | 558   |
| 10          | 116           | 200      | 450        | 1,400  | 1,060     | 450      | 900    | 640    | 2,300  | 400   | 111   | 597   |
| 11          | 94            | 170      | 400        | 2,650  | 934       | 430      | 400    | 800    | 2,000  | 300   | 203   | 416   |
| 12          | 78            | 140      | 370        | 5,710  | 844       | 500      | 900    | 440    | 1,500  | 250   | 185   | 483   |
| 13          | 71            | 130      | 341        | 4,450  | 775       | 600      | 2,000  | 700    | 1,000  | 234   | 352   | 745   |
| 14          | 83            | 120      | 323        | 2,820  | 790       | 500      | 2,500  | 600    | 700    | 203   | 282   | 759   |
| 15          | 97            | 120      | 304        | 2,400  | 1,060     | 450      | 2,000  | 500    | 500    | 164   | 209   | 341   |
| 16          | 108           | 130      | 284        | 2,110  | 1,380     | 430      | 1,500  | 1,000  | 400    | 143   | 154   | 324   |
| 17          | 94            | 160      | 270        | 2,100  | 1,400     | 410      | 1,000  | 3,900  | 350    | 134   | 137   | 252   |
| 18          | 81            | 140      | 258        | 1,750  | 1,430     | 400      | 800    | 3,200  | 300    | 125   | 134   | 207   |
| 19          | 73            | 130      | 254        | 1,300  | 1,310     | 400      | 700    | 2,200  | 350    | 119   | 135   | 182   |
| 20          | 70            | 120      | 419        | 1,220  | 1,180     | 500      | 660    | 1,260  | 300    | 116   | 117   | 167   |
| 21          | 69            | 900      | 634        | 1,440  | 1,130     | 1,100    | 700    | 1,030  | 250    | 126   | 117   | 153   |
| 22          | 67            | 1,500    | 558        | 1,630  | 1,550     | 1,000    | 900    | 805    | 250    | 147   | 107   | 153   |
| 23          | 65            | 1,300    | 429        | 1,740  | 1,590     | 1,500    | 1,200  | 1,150  | 300    | 139   | 134   | 139   |
| 24          | 63            | 1,000    | 395        | 1,810  | 1,810     | 1,600    | 980    | 1,170  | 300    | 154   | 130   | 130   |
| 25          | 61            | 900      | 608        | 4,120  | 1,440     | 1,200    | 800    | 1,000  | 250    | 201   | 107   | 129   |
| 26          | 60            | 1,000    | 1,750      | 4,560  | 1,030     | 900      | 740    | 900    | 220    | 174   | 98    | 144   |
| 27          | 60            | 2,000    | 2,300      | 2,900  | 883       | 700      | 700    | 900    | 200    | 250   | 93    | 186   |
| 28          | 70            | 4,000    | 3,140      | 2,540  | 802       | 600      | 660    | 400    | 180    | 312   | 89    | 143   |
| 29          | 81            | 5,000    | 2,640      | 2,550  | -----     | 900      | 620    | 700    | 170    | 196   | 99    | 175   |
| 30          | 123           | 4,000    | 1,810      | 2,500  | -----     | 1,400    | 560    | 600    | 160    | 154   | 186   | 154   |
| 31          | 120           | -----    | 1,070      | 2,270  | -----     | 1,300    | -----  | 600    | -----  | 134   | 254   | ----- |
| TOTAL       | 2,590         | 24,820   | 29,707     | 67,267 | 40,478    | 22,792   | 34,920 | 30,253 | 27,380 | 6,325 | 4,467 | 8,053 |
| MEAN        | 83.5          | 827      | 958        | 2,170  | 1,446     | 735      | 1,164  | 976    | 913    | 204   | 144   | 268   |
| MAX         | 123           | 5,000    | 3,140      | 5,710  | 3,150     | 1,600    | 2,500  | 3,900  | 3,500  | 400   | 352   | 597   |
| MIN         | 60            | 120      | 254        | 967    | 775       | 400      | 560    | 460    | 160    | 116   | 89    | 129   |
| CFSM        | 25            | 2.46     | 2.85       | 6.46   | 4.30      | 2.19     | 3.46   | 2.90   | 2.72   | .61   | .43   | .40   |
| IN.         | .25           | 2.75     | 2.29       | 7.45   | 4.48      | 2.52     | 3.87   | 3.35   | 3.03   | .70   | .49   | .49   |
| CAL YR 1973 | TOTAL 313,720 | MEAN 860 | MAX 26,900 | MIN 60 | CFSM 2.56 | IN 34.73 |        |        |        |       |       |       |
| WTR YR 1974 | TOTAL 299,052 | MEAN 815 | MAX 5,710  | MIN 60 | CFSM 2.44 | IN 32.11 |        |        |        |       |       |       |

## PEAK DISCHARGE (BASE, 5,000 CFS)

NOTE: No gage-height record Nov. 1 to Dec. 12; Mar. 7 to July 12.

| DATE  | TIME | G. H. | DISCHARGE | DATE  | TIME | G. H. | DISCHARGE |
|-------|------|-------|-----------|-------|------|-------|-----------|
| 01-12 | 1800 | 12.53 | 6,820     | 01-25 | 2130 | 12.34 | 6,220     |

## MOBILE RIVER BASIN

02433500 Tombigbee River at Bigbee, Miss.

LOCATION.--Lat 34°00'40", long 88°30'50", in SW¼NE¼ sec.25, T.12 S., R.7 E., Chickasaw meridian, Monroe County, near right bank on downstream side of bridge on State Highway 6, 0.2 mile (0.3 km) upstream from St. Louis-San Francisco Railway bridge, 0.5 mile (0.8 km) southeast of Bigbee, 2 miles (3 km) northwest of Amory, and 3.7 miles (6.0 km) upstream from Town Creek.

DRAINAGE AREA.--1,226 mi<sup>2</sup> (3,175 km<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.

GAGE.--Water-stage recorder. Datum of gage is 190.00 ft (57.912 m) above mean sea level (levels by Corps of Engineers). Prior to Sept. 9, 1949, nonrecording gage at same site and datum. Water-stage recorder for Tombigbee River near Amory (sta 02437000), 4.0 miles (6.4 km) downstream, used as an auxiliary gage for this station.

AVERAGE DISCHARGE.--21 years (1944-54, 1963-74), 2,062 ft<sup>3</sup>/s (58.40 m<sup>3</sup>/s), 32.60 in/yr (828 mm/yr).

EXTREMES.--Current year: Maximum discharge, 31,200 ft<sup>3</sup>/s (884 m<sup>3</sup>/s) Jan. 13 (gage height, 20.64 ft or 6.291 m); minimum, 262 ft<sup>3</sup>/s (7.42 m<sup>3</sup>/s) Oct. 28; minimum gage height, 2.26 ft (0.689 m) Aug. 28.  
Period of record: Maximum discharge, 112,000 ft<sup>3</sup>/s (3,170 m<sup>3</sup>/s) Mar. 17, 1973 (gage height, 27.64 ft or 8.425 m); minimum, 29 ft<sup>3</sup>/s (0.82 m<sup>3</sup>/s).

REMARKS.--Records good.

COOPERATION.--Gage-height record and 9 discharge measurements furnished by Corps of Engineers.

REVISIONS (WATER YEARS).--WSP 1504: 1946, 1948. WRD Miss. 1972: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY         | OCT    | NOV       | DEC     | JAN     | FEB     | MAR     | APR     | MAY     | JUN    | JUL    | AUG    | SEP    |
|-------------|--------|-----------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 1           | 310    | 461       | 13,100  | 4,530   | 7,850   | 2,630   | 2,660   | 1,140   | 2,500  | 547    | 511    | 845    |
| 2           | 308    | 612       | 8,200   | 3,990   | 7,660   | 2,480   | 3,050   | 1,140   | 3,140  | 515    | 468    | 765    |
| 3           | 304    | 565       | 5,650   | 3,830   | 8,730   | 2,230   | 3,850   | 1,230   | 3,530  | 487    | 487    | 2,200  |
| 4           | 318    | 486       | 4,230   | 4,170   | 9,830   | 2,090   | 4,490   | 1,320   | 5,060  | 468    | 495    | 1,560  |
| 5           | 304    | 483       | 3,870   | 5,430   | 9,680   | 1,970   | 5,330   | 1,550   | 5,370  | 515    | 472    | 1,120  |
| 6           | 295    | 524       | 3,190   | 8,470   | 8,150   | 1,870   | 5,160   | 1,870   | 5,020  | 671    | 450    | 845    |
| 7           | 288    | 524       | 2,820   | 8,100   | 6,720   | 1,800   | 4,440   | 1,770   | 4,080  | 690    | 440    | 712    |
| 8           | 419    | 1,060     | 2,290   | 6,620   | 5,660   | 1,720   | 3,950   | 1,670   | 4,560  | 1,140  | 440    | 810    |
| 9           | 784    | 1,470     | 1,920   | 5,740   | 4,760   | 1,700   | 3,380   | 1,660   | 4,390  | 1,020  | 475    | 1,280  |
| 10          | 1,250  | 1,150     | 1,630   | 5,620   | 3,800   | 1,580   | 2,710   | 1,840   | 4,400  | 1,200  | 515    | 1,490  |
| 11          | 1,300  | 990       | 1,420   | 9,450   | 3,170   | 1,550   | 2,290   | 1,880   | 4,970  | 1,380  | 685    | 1,270  |
| 12          | 784    | 726       | 1,280   | 20,400  | 2,750   | 1,690   | 2,480   | 2,660   | 4,520  | 1,320  | 905    | 1,170  |
| 13          | 449    | 622       | 1,230   | 29,700  | 2,530   | 1,790   | 5,320   | 2,750   | 4,160  | 1,460  | 1,840  | 1,140  |
| 14          | 416    | 604       | 1,190   | 21,000  | 2,480   | 1,730   | 5,970   | 2,850   | 3,400  | 1,550  | 1,700  | 1,410  |
| 15          | 502    | 579       | 1,190   | 13,000  | 2,550   | 1,570   | 6,160   | 2,970   | 2,600  | 1,370  | 1,430  | 1,410  |
| 16          | 551    | 539       | 1,120   | 9,400   | 3,420   | 1,510   | 6,550   | 4,960   | 1,850  | 1,120  | 1,000  | 1,180  |
| 17          | 480    | 531       | 1,060   | 8,160   | 4,010   | 1,500   | 5,390   | 6,120   | 1,490  | 835    | 745    | 960    |
| 18          | 413    | 543       | 1,000   | 7,060   | 5,760   | 1,460   | 3,980   | 9,620   | 1,340  | 658    | 613    | 775    |
| 19          | 361    | 563       | 980     | 6,040   | 6,550   | 1,410   | 3,080   | 8,320   | 1,300  | 559    | 539    | 667    |
| 20          | 334    | 539       | 1,440   | 5,160   | 5,900   | 2,160   | 2,390   | 5,990   | 1,340  | 503    | 475    | 591    |
| 21          | 318    | 1,540     | 1,990   | 5,480   | 4,940   | 3,790   | 1,940   | 4,490   | 1,220  | 472    | 426    | 531    |
| 22          | 308    | 2,340     | 2,070   | 5,410   | 5,840   | 4,740   | 1,960   | 3,410   | 1,080  | 483    | 412    | 487    |
| 23          | 295    | 2,430     | 1,750   | 6,260   | 5,500   | 6,330   | 2,690   | 3,970   | 960    | 567    | 402    | 461    |
| 24          | 295    | 2,290     | 1,590   | 7,730   | 5,530   | 7,810   | 2,670   | 3,760   | 885    | 855    | 422    | 433    |
| 25          | 290    | 2,290     | 2,270   | 10,900  | 5,330   | 6,490   | 2,300   | 3,580   | 830    | 1,040  | 367    | 433    |
| 26          | 268    | 2,420     | 4,970   | 15,300  | 4,370   | 4,790   | 1,850   | 3,850   | 760    | 905    | 343    | 468    |
| 27          | 264    | 4,680     | 6,240   | 14,600  | 3,620   | 3,630   | 1,620   | 3,860   | 694    | 965    | 323    | 559    |
| 28          | 278    | 8,610     | 9,120   | 11,200  | 2,990   | 2,880   | 1,460   | 3,410   | 654    | 1,180  | 307    | 631    |
| 29          | 327    | 10,900    | 9,520   | 10,100  | -----   | 2,680   | 1,330   | 2,880   | 613    | 950    | 318    | 631    |
| 30          | 390    | 16,100    | 7,860   | 10,200  | -----   | 2,990   | 1,240   | 2,580   | 579    | 716    | 587    | 587    |
| 31          | 434    | -----     | 5,740   | 9,380   | -----   | 2,970   | -----   | 2,180   | -----  | 595    | 935    | -----  |
| TOTAL       | 13,641 | 57,171    | 111,680 | 292,470 | 150,080 | 85,530  | 101,690 | 101,280 | 77,295 | 26,736 | 19,527 | 27,421 |
| MEAN        | 440    | 2,239     | 3,603   | 9,435   | 5,360   | 2,759   | 3,390   | 3,267   | 2,577  | 862    | 630    | 914    |
| MAX         | 1,300  | 16,100    | 13,100  | 29,700  | 9,830   | 7,810   | 6,550   | 9,620   | 5,370  | 1,550  | 1,840  | 2,200  |
| MIN         | 264    | 461       | 980     | 3,830   | 2,480   | 1,410   | 1,240   | 1,140   | 579    | 468    | 307    | 433    |
| CFSM        | 3.36   | 1.93      | 2.94    | 7.70    | 4.37    | 2.25    | 2.77    | 2.66    | 2.10   | .70    | .51    | .75    |
| IN.         | .41    | 2.04      | 3.39    | 8.87    | 4.55    | 2.60    | 3.09    | 3.07    | 2.35   | .81    | .59    | .83    |
| CAL YR 1973 | TOTAL  | 1,212,498 | MEAN    | 3,322   | MAX     | 102,000 | MIN     | 230     | CFSM   | 2.71   | IN     | 36.79  |
| WTR YR 1974 | TOTAL  | 1,074,521 | MEAN    | 2,944   | MAX     | 29,700  | MIN     | 264     | CFSM   | 2.40   | IN     | 32.60  |

## PEAK DISCHARGE (BASE, 12,000 CFS)

| DATE  | TIME | G. H. | DISCHARGE | DATE  | TIME | G. H. | DISCHARGE |
|-------|------|-------|-----------|-------|------|-------|-----------|
| 11-30 | 1400 | 17.32 | ~ 16,900  | 01-26 | 1900 | 17.55 | 17,400    |
| 01-13 | 0900 | 20.64 | 31,200    |       |      |       |           |



02435020 Town Creek at Eason Boulevard at Tupelo, Miss.

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, on left bank at downstream side of bridge on Eason Boulevard in Tupelo, 400 ft (120 m) upstream from Kings Creek, 0.2 mile (0.3 km) downstream from Mud Creek; 0.4 mile (0.6 km) downstream from St. Louis and San Francisco Railroad, and 2.0 miles (3.2 km) upstream from Tulip Creek.

DRAINAGE AREA.--230 mi<sup>2</sup> (596 km<sup>2</sup>), includes that of Kings Creek.

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 230.00 ft (70.104 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 15,100 ft<sup>3</sup>/s (428 m<sup>3</sup>/s) Jan. 11 (gage height, 25.21 ft or 7.684 m); minimum, 3.0 ft<sup>3</sup>/s (0.085 m<sup>3</sup>/s) Oct. 1 (gage height, 2.74 ft or 0.835 m).

Period of record: Maximum discharge, 22,400 ft<sup>3</sup>/s (634 m<sup>3</sup>/s) Mar. 16, 1973 (gage height, 27.05 ft or 8.245 m); minimum, 2.3 ft<sup>3</sup>/s (0.065 m<sup>3</sup>/s) Oct. 4-5, 1971 (gage height, 2.72 ft or 0.829 m).

REMARKS.--Records fair. Discharge includes flow of Kings Creek. Records of chemical analyses for the current year are published in Part 2 of this report.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT     | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL   | AUG     | SEP   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|-------|---------|-------|
| 1     | 3.5     | 153    | 540    | 428    | 407    | 175    | 581    | 30     | 5,290  | 25    | 15      | 27    |
| 2     | 4.0     | 39     | 417    | 274    | 5,340  | 155    | 9,110  | 30     | 2,570  | 22    | 15      | 278   |
| 3     | 4.0     | 20     | 310    | 5,930  | 5,010  | 155    | 1,040  | 30     | 593    | 46    | 51      | 432   |
| 4     | 4.0     | 28     | 1,060  | 3,590  | 509    | 139    | 510    | 197    | 495    | 48    | 27      | 43    |
| 5     | 4.5     | 58     | 523    | 1,040  | 463    | 129    | 325    | 381    | 523    | 48    | 19      | 25    |
| 6     | 4.0     | 43     | 251    | 835    | 497    | 137    | 245    | 157    | 451    | 58    | 13      | 20    |
| 7     | 4.5     | 23     | 172    | 1,040  | 435    | 125    | 207    | 100    | 504    | 54    | 11      | 16    |
| 8     | 1,380   | 175    | 135    | 477    | 323    | 118    | 357    | 30     | 3,000  | 173   | 13      | 105   |
| 9     | 1,350   | 124    | 119    | 3,540  | 262    | 112    | 239    | 406    | 781    | 528   | 15      | 150   |
| 10    | 131     | 40     | 105    | 5,410  | 230    | 110    | 173    | 155    | 1,060  | 92    | 19      | 47    |
| 11    | 50      | 25     | 92     | 14,300 | 203    | 115    | 145    | 244    | 513    | 56    | 15      | 29    |
| 12    | 35      | 20     | 83     | 5,500  | 182    | 191    | 1,070  | 1,400  | 585    | 43    | 30      | 24    |
| 13    | 26      | 19     | 82     | 1,070  | 158    | 140    | 4,100  | 280    | 482    | 34    | 300     | 154   |
| 14    | 54      | 18     | 75     | 2,080  | 495    | 110    | 623    | 151    | 308    | 30    | 150     | 279   |
| 15    | 48      | 17     | 69     | 2,870  | 2,190  | 100    | 393    | 5,130  | 303    | 28    | 100     | 158   |
| 16    | 28      | 15     | 64     | 1,040  | 2,170  | 95     | 285    | 11,300 | 303    | 30    | 77      | 42    |
| 17    | 20      | 15     | 59     | 755    | 598    | 92     | 224    | 1,740  | 222    | 33    | 55      | 26    |
| 18    | 17      | 15     | 55     | 597    | 443    | 90     | 185    | 589    | 260    | 35    | 38      | 20    |
| 19    | 15      | 15     | 55     | 473    | 753    | 140    | 159    | 403    | 220    | 38    | 29      | 17    |
| 20    | 17      | 74     | 473    | 1,900  | 424    | 359    | 132    | 237    | 160    | 41    | 23      | 15    |
| 21    | 17      | 1,950  | 198    | 1,640  | 501    | 5,910  | 114    | 356    | 120    | 44    | 19      | 13    |
| 22    | 15      | 394    | 113    | 532    | 1,370  | 1,720  | 342    | 2,310  | 90     | 51    | 15      | 12    |
| 23    | 15      | 275    | 102    | 2,400  | 447    | 503    | 313    | 10,900 | 70     | 141   | 14      | 12    |
| 24    | 12      | 520    | 493    | 7,340  | 334    | 442    | 153    | 1,450  | 50     | 144   | 13      | 11    |
| 25    | 11      | 1,010  | 10,400 | 7,650  | 258    | 357    | 120    | 498    | 50     | 34    | 11      | 17    |
| 26    | 10      | 493    | 9,340  | 1,610  | 215    | 295    | 105    | 1,200  | 39     | 179   | 10      | 30    |
| 27    | 10      | 8,950  | 2,400  | 1,210  | 197    | 250    | 100    | 1,420  | 35     | 257   | 9.2     | 32    |
| 28    | 25      | 12,800 | 713    | 5,130  | 182    | 228    | 93     | 411    | 31     | 78    | 9.9     | 43    |
| 29    | 33      | 3,050  | 704    | 2,300  | -----  | 1,050  | 83     | 236    | 33     | 35    | 25      | 28    |
| 30    | 17      | 595    | 370    | 646    | -----  | 458    | 84     | 224    | 25     | 25    | 19      | 20    |
| 31    | 107     | -----  | 755    | 475    | -----  | 299    | -----  | 177    | -----  | 19    | 31      | ----- |
| TOTAL | 3,473.5 | 31,197 | 30,140 | 92,083 | 25,512 | 15,411 | 21,722 | 44,072 | 19,488 | 2,499 | 1,194.1 | 2,126 |
| MEAN  | 112     | 1,040  | 972    | 2,970  | 947    | 497    | 724    | 1,422  | 550    | 80.6  | 38.5    | 70.9  |
| MAX   | 1,380   | 12,800 | 10,400 | 14,300 | 5,010  | 5,910  | 9,110  | 11,300 | 5,290  | 528   | 300     | 432   |
| MIN   | 3.5     | 15     | 55     | 274    | 158    | 90     | 84     | 30     | 25     | 19    | 9.2     | 11    |
| CFSM  | 4.9     | 4.52   | 4.23   | 12.9   | 4.12   | 2.15   | 3.15   | 5.18   | 2.83   | 4.35  | 1.17    | 3.1   |
| IN    | 5.6     | 5.05   | 4.87   | 14.59  | 4.29   | 2.49   | 3.51   | 7.13   | 3.15   | 4.0   | 1.19    | 3.34  |

CAL YR 1973 TOTAL 280,457.5 MEAN 759 MAX 20,700 MIN 2.3 CFSM 3.34 IN 45.43  
 WTR YR 1974 TOTAL 289,917.5 MEAN 794 MAX 14,300 MIN 3.5 CFSM 3.45 IN 45.89

## PEAK DISCHARGE (BASE, 8,000 CFS)

| DATE  | TIME | G.H.T. | DISCHARGE | DATE  | TIME | G.H.T. | DISCHARGE |
|-------|------|--------|-----------|-------|------|--------|-----------|
| 11-28 | 0530 | 24.70  | 13,800    | 02-02 | 2200 | 23.62  | 11,600    |
| 12-25 | 1515 | 24.03  | 12,500    | 03-21 | 1215 | 22.82  | 10,200    |
| 01-03 | 2315 | 24.06  | 12,500    | 04-02 | 0800 | 23.65  | 11,700    |
| 01-11 | 1245 | 25.21  | 15,100    | 05-16 | 0200 | 24.45  | 13,300    |
| 01-24 | 2245 | 23.86  | 12,100    | 05-23 | 0530 | 24.21  | 12,800    |
| 01-28 | 1500 | 22.74  | 10,000    | 06-01 | 1700 | 22.11  | 8,980     |

## MOBILE RIVER BASIN

02436500 Town Creek near Nettleton, Miss.

LOCATION.--Lat 34°03'32", long 88°37'40", in NW¼ sec.12, T.12 S., R.6 E., Chickasaw meridian, Monroe County, on right bank at downstream side of bridge on U.S. Highway 45, 1.9 miles (3.1 km) downstream from Tallabinnela Creek, 2 miles (3 km) downstream from Tubbalubba Creek, and 2.1 miles (3.4 km) south of Nettleton.

DRAINAGE AREA.--617 mi<sup>2</sup> (1,598 km<sup>2</sup>).

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.

GAGE.--Water-stage recorder. Datum of gage is 194.01 ft (59.134 m) above mean sea level (Corps of Engineers bench mark). Prior to Oct. 1, 1947, at datum 10.00 ft (3.048 m) higher.

AVERAGE DISCHARGE.--35 years, 920 ft<sup>3</sup>/s (26.05 m<sup>3</sup>/s), 20.25 in/yr (514 mm/yr).

EXTREMES.--Current year: Maximum discharge, 19,800 ft<sup>3</sup>/s (561 m<sup>3</sup>/s) Jan. 11 (gage height, 27.51 ft or 8.385 m); minimum, 20 ft<sup>3</sup>/s (0.57 m<sup>3</sup>/s) Oct. 7 (gage height, 5.22 ft or 1.591 m).

Period of record: Maximum discharge, 151,000 ft<sup>3</sup>/s (4,280 m<sup>3</sup>/s) Mar. 22, 1955 (gage height, 33.88 ft or 10.327 m); minimum, 0.8 ft<sup>3</sup>/s (0.023 m<sup>3</sup>/s) Sept. 14, 15, 1942.

Maximum stage known since at least 1892, that of Mar. 22, 1955. Flood of Dec. 24, 1926, reached a stage of 32.5 ft (9.91 m), present datum, from floodmark.

REMARKS.--Records good. Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1504: 1948.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT   | NOV    | DEC    | JAN     | FEB    | MAR    | APR    | MAY    | JUN    | JUL   | AUG   | SEP    |
|-------|-------|--------|--------|---------|--------|--------|--------|--------|--------|-------|-------|--------|
| 1     | 30    | 317    | 1,530  | 1,180   | 1,340  | 559    | 741    | 233    | 4,220  | 97    | 86    | 445    |
| 2     | 29    | 132    | 1,030  | 761     | 8,510  | 521    | 6,920  | 245    | 3,610  | 90    | 78    | 675    |
| 3     | 30    | 83     | 751    | 5,640   | 9,050  | 495    | 3,020  | 210    | 1,280  | 91    | 95    | 3,050  |
| 4     | 26    | 69     | 1,940  | 8,030   | 2,930  | 470    | 1,580  | 350    | 980    | 97    | 91    | 486    |
| 5     | 25    | 224    | 1,470  | 3,230   | 1,610  | 450    | 894    | 707    | 1,950  | 138   | 78    | 233    |
| 6     | 23    | 134    | 690    | 2,240   | 1,680  | 470    | 628    | 364    | 1,330  | 148   | 66    | 151    |
| 7     | 22    | 90     | 498    | 2,950   | 1,680  | 440    | 508    | 255    | 862    | 200   | 63    | 118    |
| 8     | 335   | 633    | 402    | 1,400   | 1,140  | 410    | 1,560  | 212    | 4,830  | 409   | 66    | 707    |
| 9     | 1,740 | 425    | 347    | 3,900   | 877    | 380    | 718    | 551    | 1,870  | 498   | 62    | 696    |
| 10    | 226   | 157    | 305    | 7,060   | 751    | 370    | 436    | 320    | 1,420  | 219   | 60    | 295    |
| 11    | 114   | 110    | 268    | 17,100  | 565    | 400    | 370    | 406    | 1,180  | 134   | 60    | 154    |
| 12    | 84    | 90     | 246    | 12,000  | 601    | 502    | 2,020  | 3,000  | 1,590  | 118   | 148   | 126    |
| 13    | 69    | 83     | 246    | 4,020   | 566    | 500    | 7,100  | 765    | 1,500  | 99    | 1,020 | 541    |
| 14    | 122   | 75     | 226    | 4,390   | 880    | 450    | 1,990  | 403    | 732    | 83    | 445   | 392    |
| 15    | 144   | 70     | 205    | 5,910   | 3,140  | 380    | 1,020  | 7,290  | 555    | 70    | 176   | 445    |
| 16    | 90    | 67     | 190    | 2,750   | 4,250  | 360    | 725    | 11,000 | 653    | 64    | 122   | 166    |
| 17    | 69    | 64     | 179    | 1,880   | 1,970  | 350    | 544    | 5,040  | 394    | 66    | 128   | 128    |
| 18    | 56    | 59     | 175    | 1,500   | 1,160  | 350    | 454    | 1,780  | 614    | 62    | 97    | 114    |
| 19    | 51    | 59     | 173    | 1,220   | 2,130  | 400    | 400    | 1,210  | 833    | 86    | 83    | 108    |
| 20    | 46    | 67     | 1,190  | 4,160   | 1,260  | 1,070  | 350    | 840    | 421    | 110   | 73    | 102    |
| 21    | 42    | 3,560  | 694    | 4,410   | 1,620  | 6,060  | 301    | 855    | 331    | 78    | 64    | 99     |
| 22    | 38    | 1,080  | 341    | 1,540   | 4,600  | 3,410  | 1,940  | 3,320  | 260    | 69    | 59    | 93     |
| 23    | 39    | 412    | 287    | 5,400   | 1,330  | 1,260  | 1,540  | 10,500 | 220    | 565   | 56    | 90     |
| 24    | 35    | 1,220  | 594    | 12,000  | 935    | 928    | 599    | 4,500  | 190    | 650   | 54    | 88     |
| 25    | 35    | 1,500  | 9,760  | 11,500  | 724    | 754    | 400    | 1,460  | 170    | 202   | 52    | 86     |
| 26    | 34    | 1,450  | 11,200 | 4,850   | 614    | 652    | 331    | 1,970  | 150    | 296   | 50    | 91     |
| 27    | 33    | 11,400 | 5,890  | 3,490   | 575    | 566    | 280    | 2,760  | 140    | 891   | 49    | 104    |
| 28    | 64    | 13,900 | 2,120  | 9,220   | 550    | 534    | 248    | 1,080  | 126    | 265   | 48    | 110    |
| 29    | 97    | 6,610  | 1,480  | 6,260   | -----  | 2,620  | 238    | 729    | 122    | 157   | 83    | 102    |
| 30    | 57    | 2,260  | 1,100  | 2,300   | -----  | 1,300  | 233    | 561    | 106    | 118   | 209   | 93     |
| 31    | 73    | -----  | 1,420  | 1,650   | -----  | 741    | -----  | 445    | -----  | 95    | 148   | -----  |
| TOTAL | 3,878 | 46,400 | 46,947 | 153,941 | 57,138 | 28,152 | 38,088 | 63,361 | 32,439 | 6,265 | 3,969 | 10,078 |
| MEAN  | 125   | 1,547  | 1,514  | 4,966   | 2,041  | 908    | 1,270  | 2,044  | 1,081  | 202   | 128   | 336    |
| MAX   | 1,740 | 13,900 | 11,200 | 17,100  | 9,050  | 6,060  | 7,100  | 11,000 | 4,830  | 891   | 1,020 | 3,050  |
| MIN   | 22    | 59     | 173    | 761     | 550    | 350    | 233    | 210    | 106    | 62    | 48    | 86     |
| CFSM  | .20   | 2.51   | 2.45   | 8.05    | 3.31   | 1.47   | 2.06   | 3.31   | 1.75   | .33   | .21   | .54    |
| IN.   | .23   | 2.80   | 2.83   | 9.28    | 3.44   | 1.70   | 2.30   | 3.82   | 1.96   | .38   | .24   | .51    |

CAL YR 1973 TOTAL 546,172 MEAN 1,496 MAX 53,800 MIN 21 CFSM 2.42 IN 32.93  
WTR YR 1974 TOTAL 490,656 MEAN 1,344 MAX 17,100 MIN 22 CFSM 2.18 IN 29.58

## PEAK DISCHARGE (BASE, 15,000 CFS)

| DATE  | TIME | G.HT. | DISCHARGE | DATE  | TIME | G.HT. | DISCHARGE |
|-------|------|-------|-----------|-------|------|-------|-----------|
| 11-27 | 2200 | 27.40 | 19,300    | 01-28 | 1330 | 26.49 | 15,300    |
| 01-11 | 1130 | 27.51 | 19,800    | 02-02 | 1630 | 26.46 | 15,200    |
| 01-24 | 1845 | 27.18 | 18,200    | 05-15 | 2030 | 26.59 | 15,700    |

02437000 Tombigbee River near Amory, Miss.

LOCATION.--Lat 33°59'10", long 88°33'05", in NW¼NE¼ sec.3, T.13 S., R.7 E., Chickasaw meridian, Monroe County, near right bank on downstream side of bridge on U.S. Highway 278, 0.3 mile (0.5 km) downstream from Town Creek, 3.5 miles (5.6 km) west of Amory, and at mile 378.9 (609.7 km).

DRAINAGE AREA.--1,924 mi<sup>2</sup> (4,983 km<sup>2</sup>).

PERIOD OF RECORD.--October 1937 to current year. Monthly discharge only for October and November 1937, published in WSP 1304.

GAGE.--Water-stage recorder. Datum of gage is 178.34 ft (54.358 m) above mean sea level (levels by Corps of Engineers). Prior to Oct. 10, 1939, nonrecording gage at site 1,500 ft (460 m) 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 (sta 02437500), 20 miles (30 km) downstream, was used as an auxiliary gage for this station 1950-58.

AVERAGE DISCHARGE.--37 years, 3,031 ft<sup>3</sup>/s (85.84 m<sup>3</sup>/s), 21.39 in/yr (543 mm/yr).

EXTREMES.--Current year: Maximum discharge, 33,600 ft<sup>3</sup>/s (952 m<sup>3</sup>/s) Jan. 13 (gage height, 27.22 ft or 8.297 m); minimum, 292 ft<sup>3</sup>/s (8.27 m<sup>3</sup>/s) Oct. 7; minimum gage height, 4.78 ft (1.457 m) Aug. 28.  
Period of record: Maximum discharge, 162,000 ft<sup>3</sup>/s (4,590 m<sup>3</sup>/s) Mar. 17, 1973 (gage height, 34.65 ft or 10.561 m); minimum discharge, 45 ft<sup>3</sup>/s (1.27 m<sup>3</sup>/s) Sept. 20, 1954; minimum gage height, 0.77 ft (0.235 m) Sept. 1, 1943.

REMARKS.--Records fair. Records of chemical analyses for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height record and 9 discharge measurements furnished by Corps of Engineers.

REVISIONS (WATER YEARS).--WSP 1504: 1948. WRD Miss. 1972: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT    | NOV     | DEC     | JAN     | FEB     | MAR     | APR     | MAY     | JUN     | JUL    | AUG    | SEP    |
|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| 1     | 318    | 870     | 17,000  | 7,410   | 11,000  | 3,830   | 4,190   | 1,560   | 5,340   | 710    | 604    | 1,410  |
| 2     | 318    | 950     | 12,400  | 5,830   | 13,000  | 3,520   | 10,400  | 1,570   | 9,430   | 672    | 544    | 1,610  |
| 3     | 318    | 825     | 8,900   | 7,230   | 19,800  | 3,270   | 9,880   | 1,680   | 6,120   | 644    | 604    | 5,690  |
| 4     | 328    | 684     | 7,600   | 14,400  | 15,900  | 3,000   | 7,280   | 1,900   | 5,170   | 644    | 604    | 2,920  |
| 5     | 332    | 850     | 7,340   | 12,400  | 12,900  | 2,800   | 6,820   | 2,520   | 7,370   | 648    | 524    | 1,810  |
| 6     | 310    | 845     | 5,170   | 10,900  | 11,200  | 2,690   | 6,430   | 2,620   | 7,910   | 950    | 524    | 1,290  |
| 7     | 320    | 790     | 3,930   | 12,600  | 10,200  | 2,590   | 5,780   | 2,390   | 5,360   | 925    | 492    | 1,040  |
| 8     | 851    | 1,720   | 3,250   | 10,100  | 8,280   | 2,450   | 6,560   | 2,180   | 9,930   | 1,830  | 500    | 1,590  |
| 9     | 3,070  | 2,380   | 2,660   | 10,100  | 6,980   | 2,330   | 5,320   | 2,530   | 9,650   | 1,610  | 509    | 2,600  |
| 10    | 1,870  | 1,390   | 2,180   | 13,100  | 5,750   | 2,230   | 4,020   | 2,550   | 6,750   | 1,730  | 524    | 2,350  |
| 11    | 1,860  | 1,010   | 1,870   | 21,200  | 4,820   | 2,200   | 3,360   | 2,570   | 5,920   | 1,730  | 705    | 1,970  |
| 12    | 1,180  | 785     | 1,640   | 30,500  | 4,140   | 2,510   | 6,610   | 6,920   | 5,600   | 1,660  | 995    | 1,610  |
| 13    | 640    | 684     | 1,530   | 31,600  | 3,720   | 2,590   | 13,900  | 4,840   | 7,050   | 1,720  | 3,070  | 2,120  |
| 14    | 580    | 636     | 1,440   | 25,000  | 3,820   | 2,390   | 9,360   | 3,840   | 5,360   | 1,820  | 2,480  | 2,150  |
| 15    | 775    | 604     | 1,400   | 22,500  | 6,980   | 2,170   | 8,150   | 7,100   | 4,060   | 1,630  | 1,910  | 2,390  |
| 16    | 820    | 596     | 1,240   | 16,400  | 8,930   | 2,100   | 7,940   | 16,400  | 3,190   | 1,300  | 1,200  | 1,700  |
| 17    | 660    | 588     | 1,150   | 12,500  | 8,160   | 2,090   | 6,620   | 15,600  | 2,510   | 950    | 985    | 1,350  |
| 18    | 552    | 604     | 1,080   | 10,700  | 7,280   | 1,990   | 5,220   | 13,000  | 2,390   | 705    | 715    | 1,100  |
| 19    | 468    | 604     | 1,040   | 8,880   | 8,900   | 1,940   | 4,150   | 11,200  | 2,740   | 604    | 616    | 935    |
| 20    | 420    | 596     | 2,440   | 9,360   | 8,000   | 3,470   | 3,370   | 8,680   | 2,230   | 628    | 536    | 925    |
| 21    | 393    | 5,280   | 3,050   | 13,100  | 7,140   | 9,480   | 2,770   | 6,700   | 1,930   | 532    | 452    | 795    |
| 22    | 378    | 5,120   | 2,560   | 9,290   | 11,700  | 10,900  | 4,840   | 6,300   | 1,660   | 536    | 472    | 658    |
| 23    | 366    | 3,340   | 2,170   | 11,200  | 8,780   | 8,080   | 5,450   | 13,900  | 1,450   | 1,030  | 432    | 632    |
| 24    | 352    | 3,780   | 2,050   | 16,600  | 7,320   | 9,170   | 4,000   | 13,300  | 1,320   | 1,700  | 456    | 612    |
| 25    | 348    | 3,990   | 9,000   | 23,200  | 6,960   | 8,080   | 3,280   | 8,040   | 1,180   | 1,390  | 396    | 609    |
| 26    | 338    | 4,240   | 16,000  | 21,500  | 5,940   | 6,330   | 2,630   | 6,950   | 1,080   | 1,170  | 350    | 694    |
| 27    | 335    | 10,200  | 17,400  | 19,300  | 5,030   | 5,070   | 2,300   | 8,600   | 980     | 2,140  | 338    | 750    |
| 28    | 369    | 23,300  | 13,600  | 18,100  | 4,280   | 4,210   | 2,060   | 6,270   | 900     | 1,650  | 332    | 870    |
| 29    | 488    | 22,800  | 12,400  | 20,400  | -----   | 6,620   | 1,850   | 4,760   | 840     | 1,220  | 342    | 850    |
| 30    | 540    | 19,800  | 10,800  | 15,100  | -----   | 5,730   | 1,690   | 3,950   | 775     | 905    | 850    | 790    |
| 31    | 584    | -----   | 8,690   | 12,700  | -----   | 4,520   | -----   | 3,400   | -----   | 684    | 1,210  | -----  |
| TOTAL | 20,481 | 119,861 | 182,980 | 473,200 | 236,510 | 130,350 | 166,230 | 193,830 | 130,195 | 36,077 | 24,270 | 45,729 |
| MEAN  | 661    | 3,995   | 5,903   | 15,260  | 8,447   | 4,205   | 5,541   | 6,253   | 4,340   | 1,154  | 783    | 1,524  |
| MAX   | 3,070  | 23,300  | 17,400  | 31,600  | 19,800  | 10,900  | 13,900  | 16,400  | 9,930   | 2,140  | 3,070  | 5,690  |
| MIN   | 310    | 588     | 1,040   | 5,830   | 3,720   | 1,940   | 1,690   | 1,560   | 775     | 532    | 332    | 608    |
| CFSM  | .34    | 2.08    | 3.07    | 7.93    | 4.39    | 2.19    | 2.88    | 3.25    | 2.26    | .61    | .41    | .79    |
| IN.   | .40    | 2.32    | 3.54    | 9.15    | 4.57    | 2.52    | 3.21    | 3.75    | 2.52    | .70    | .47    | .98    |

CAL YR 1973 TOTAL 1,829,195 MEAN 5,011 MAX 148,000 MIN 242 CFSM 2.50 IN 35.37  
WTR YR 1974 TOTAL 1,759,713 MEAN 4,821 MAX 31,600 MIN 310 CFSM 2.51 IN 34.02

## PEAK DISCHARGE (BASE, 15,000 CFS)

| DATE  | TIME | G. H. | DISCHARGE | DATE  | TIME | G. H. | DISCHARGE |
|-------|------|-------|-----------|-------|------|-------|-----------|
| 11-28 | 1500 | 25.22 | 24,700    | 01-29 | 0430 | 24.48 | 21,700    |
| 12-27 | 0300 | 23.48 | 18,700    | 02-03 | 1330 | 24.00 | 20,200    |
| 01-04 | 1430 | 21.93 | 15,000    | 04-13 | 0800 | 22.00 | 15,100    |
| 01-13 | 0300 | 27.22 | 33,600    | 05-16 | 1700 | 22.90 | 17,300    |
| 01-25 | 1500 | 24.98 | 23,700    | 05-23 | 2000 | 22.17 | 15,500    |

02437500 Tombigbee River at Aberdeen, Miss.

LOCATION.--Lat 33°49'14", long 88°31'07", in N½ sec.27, T.14 S., R.19 W., Huntsville meridian, Monroe County, on left bank at downstream side of bridge on U.S. Highway 45, 1.3 miles (2.1 km) downstream from St. Louis-San Francisco Railway bridge, 1.5 miles (2.4 km) east of Aberdeen, 2 miles (3 km) downstream from Matubby Creek, 6 miles (10 km) downstream from Halfway Creek, and 13 miles (21 km) upstream from McKinley Creek.

DRAINAGE AREA.--2,169 mi<sup>2</sup> (5,618 km<sup>2</sup>).

PERIOD OF RECORD.--August 1928 to September 1958, October 1958 to September 1971 (annual maximums only), October 1971 to current year. Gage-height records collected at site 1.3 miles (2.1 km) upstream since 1909 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 154.71 ft (47.156 m) above mean sea level (Corps of Engineers bench mark). Prior to Nov. 5, 1934, nonrecording gage at site 1.3 miles (2.3 km) upstream, and Nov. 6, 1934 to Aug. 30, 1939, nonrecording gage at present site, all at present datum.

AVERAGE DISCHARGE.--33 years (1928-58, 1971-74), 3,243 ft<sup>3</sup>/s (91.84 m<sup>3</sup>/s), 20.30 in/yr (516 mm/yr).

EXTREMES.--Current year: Maximum discharge, 32,600 ft<sup>3</sup>/s (923 m<sup>3</sup>/s) Jan. 14 (gage height, 38.91 ft or 11.860 m); minimum, 324 ft<sup>3</sup>/s (9.18 m<sup>3</sup>/s) Oct. 7 (gage height, 4.18 ft or 1.274 m).  
Period of record: Maximum discharge, 123,000 ft<sup>3</sup>/s (3,480 m<sup>3</sup>/s) Mar. 18, 1973 (gage height, 45.02 ft or 13.722 m); minimum discharge, 58 ft<sup>3</sup>/s (1.64 m<sup>3</sup>/s) Sept. 1, 2, 1943; minimum gage height, 0.77 ft (0.235 m) Sept. 12, 13, 1954.  
A flood on Mar. 23, 1955, reached a stage of 45.3 ft (13.81 m), and a stage of 44.8 ft (13.66 m) occurred April 20, 1892 at former site.

REMARKS.--Records good. Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS.--WRD Miss. 1972: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY         | OCT             | NOV        | DEC         | JAN     | FEB       | MAR      | APR     | MAY     | JUN     | JUL    | AUG    | SEP    |
|-------------|-----------------|------------|-------------|---------|-----------|----------|---------|---------|---------|--------|--------|--------|
| 1           | 445             | 701        | 20,100      | 11,100  | 15,000    | 3,670    | 4,450   | 1,500   | 3,870   | 764    | 671    | 1,910  |
| 2           | 386             | 876        | 17,800      | 9,480   | 13,300    | 3,180    | 6,430   | 1,450   | 6,970   | 719    | 603    | 2,290  |
| 3           | 370             | 852        | 15,000      | 8,100   | 15,300    | 2,870    | 8,560   | 1,540   | 7,690   | 699    | 605    | 3,720  |
| 4           | 364             | 722        | 12,700      | 9,660   | 17,800    | 2,640    | 9,090   | 1,610   | 6,740   | 660    | 662    | 3,860  |
| 5           | 388             | 1,090      | 11,100      | 11,900  | 16,500    | 2,470    | 8,220   | 1,960   | 6,730   | 660    | 657    | 1,850  |
| 6           | 354             | 973        | 9,390       | 12,200  | 14,600    | 2,340    | 7,320   | 2,250   | 8,920   | 826    | 588    | 1,210  |
| 7           | 336             | 828        | 7,060       | 13,000  | 13,400    | 2,250    | 6,570   | 2,140   | 9,410   | 939    | 552    | 944    |
| 8           | 1,210           | 2,120      | 4,190       | 12,900  | 11,900    | 2,170    | 5,930   | 1,930   | 9,440   | 1,190  | 603    | 915    |
| 9           | 1,790           | 5,310      | 2,700       | 11,900  | 10,300    | 2,050    | 6,180   | 1,940   | 9,890   | 1,410  | 581    | 2,340  |
| 10          | 1,930           | 2,240      | 2,220       | 12,100  | 8,610     | 1,960    | 4,720   | 2,220   | 9,370   | 1,460  | 572    | 2,260  |
| 11          | 1,460           | 1,250      | 1,930       | 15,100  | 6,800     | 2,230    | 3,230   | 2,090   | 8,150   | 1,410  | 607    | 1,890  |
| 12          | 1,280           | 934        | 1,730       | 23,100  | 4,850     | 3,260    | 3,060   | 4,830   | 7,410   | 1,420  | 766    | 1,520  |
| 13          | 804             | 802        | 1,620       | 30,800  | 3,620     | 2,590    | 8,870   | 6,380   | 9,080   | 1,370  | 1,630  | 1,510  |
| 14          | 828             | 727        | 1,540       | 31,500  | 3,180     | 2,240    | 11,700  | 4,460   | 7,420   | 1,450  | 2,390  | 1,730  |
| 15          | 1,020           | 687        | 1,490       | 29,100  | 5,070     | 2,010    | 11,300  | 4,570   | 5,710   | 1,470  | 1,850  | 2,260  |
| 16          | 854             | 654        | 1,420       | 25,000  | 7,340     | 1,890    | 9,990   | 9,450   | 3,440   | 1,270  | 1,350  | 1,780  |
| 17          | 751             | 634        | 1,330       | 19,000  | 8,490     | 1,880    | 9,110   | 12,500  | 2,390   | 1,000  | 984    | 1,300  |
| 18          | 641             | 630        | 1,260       | 15,400  | 8,220     | 1,820    | 8,040   | 13,800  | 2,170   | 800    | 824    | 1,030  |
| 19          | 551             | 641        | 1,220       | 13,200  | 8,070     | 1,770    | 6,290   | 13,300  | 3,000   | 680    | 694    | 865    |
| 20          | 489             | 632        | 2,250       | 11,700  | 8,440     | 2,570    | 3,940   | 12,200  | 2,210   | 729    | 612    | 756    |
| 21          | 450             | 3,790      | 3,690       | 12,700  | 8,200     | 5,490    | 2,700   | 10,500  | 1,860   | 643    | 552    | 699    |
| 22          | 423             | 6,920      | 2,700       | 12,700  | 9,710     | 8,440    | 2,460   | 8,630   | 1,590   | 577    | 513    | 630    |
| 23          | 401             | 4,730      | 2,290       | 11,700  | 10,800    | 9,170    | 5,560   | 8,410   | 1,700   | 701    | 494    | 577    |
| 24          | 386             | 3,220      | 2,000       | 13,300  | 9,970     | 8,520    | 4,880   | 10,700  | 1,590   | 1,200  | 479    | 546    |
| 25          | 370             | 3,150      | 5,330       | 18,100  | 8,670     | 8,400    | 3,350   | 11,600  | 1,260   | 1,280  | 479    | 528    |
| 26          | 362             | 3,860      | 11,400      | 23,000  | 7,570     | 7,940    | 2,540   | 10,500  | 1,100   | 1,110  | 444    | 557    |
| 27          | 350             | 7,050      | 15,700      | 23,900  | 6,300     | 6,740    | 2,140   | 9,800   | 987     | 1,450  | 414    | 621    |
| 28          | 378             | 14,300     | 16,400      | 21,900  | 4,760     | 4,860    | 1,920   | 8,920   | 905     | 1,620  | 392    | 694    |
| 29          | 485             | 18,800     | 15,100      | 22,700  | -----     | 6,300    | 1,750   | 7,300   | 850     | 1,310  | 396    | 719    |
| 30          | 560             | 21,100     | 14,000      | 21,300  | -----     | 7,670    | 1,600   | 4,990   | 805     | 968    | 731    | 694    |
| 31          | 601             | -----      | 12,600      | 17,500  | -----     | 6,350    | -----   | 3,220   | -----   | 783    | 1,700  | -----  |
| TOTAL       | 21,017          | 110,223    | 219,260     | 525,040 | 266,770   | 127,740  | 171,900 | 196,690 | 141,657 | 32,558 | 24,395 | 42,215 |
| MEAN        | 678             | 3,674      | 7,073       | 16,940  | 9,528     | 4,121    | 5,730   | 6,345   | 4,722   | 1,050  | 787    | 1,407  |
| MAX         | 1,930           | 21,100     | 20,100      | 31,500  | 17,800    | 9,170    | 11,700  | 13,800  | 9,890   | 1,620  | 2,390  | 3,860  |
| MIN         | 336             | 630        | 1,220       | 8,100   | 3,180     | 1,770    | 1,600   | 1,450   | 805     | 577    | 392    | 528    |
| CFSM        | .31             | 1.69       | 3.26        | 7.81    | 4.39      | 1.90     | 2.64    | 2.93    | 2.18    | .48    | .36    | .65    |
| IN.         | .36             | 1.89       | 3.76        | 9.00    | 4.58      | 2.19     | 2.95    | 3.37    | 2.43    | .56    | .42    | .72    |
| CAL YR 1973 | TOTAL 2,059,396 | MEAN 5,642 | MAX 117,000 | MIN 280 | CFSM 2.60 | IN 35.32 |         |         |         |        |        |        |
| WTR YR 1974 | TOTAL 1,879,465 | MEAN 5,149 | MAX 31,500  | MIN 336 | CFSM 2.37 | IN 32.23 |         |         |         |        |        |        |

02439400 Buttahatchee River near Aberdeen, Miss.

LOCATION.--Lat 33°47'28", long 88°18'52", in NW¼ sec.3, T.15 S., R.17 W., Huntsville meridian, Monroe County, near right bank on downstream side of bridge on county highway, 10 miles (16 km) downstream from Sipsey Creek, and 13 miles (21 km) southeast of Aberdeen.

DRAINAGE AREA.--787 mi<sup>2</sup> (2,038 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 220.77 ft (67.291 m) above mean sea level (Mississippi State Highway bench mark).

AVERAGE DISCHARGE.--8 years, 1,423 ft<sup>3</sup>/s (40.30 m<sup>3</sup>/s), 24.55 in/yr (624 mm/yr).

EXTREMES.--Current year: Maximum discharge, 15,700 ft<sup>3</sup>/s (445 m<sup>3</sup>/s) Dec. 28 (gage height, 17.28 ft or 5.267 m); minimum, 262 ft<sup>3</sup>/s (7.42 m<sup>3</sup>/s) Oct. 28 (gage height, 5.32 ft or 1.622 m).

Period of record: Maximum discharge, 80,000 ft<sup>3</sup>/s (2,270 m<sup>3</sup>/s) Mar. 17, 1973 (gage height, 23.48 ft or 7.157 m, observed at crest); minimum, 117 ft<sup>3</sup>/s (3.31 m<sup>3</sup>/s) Sept. 16, 1972 (gage height, 4.26 ft or 1.298 m).

REMARKS.--Records good. Records of chemical analyses for the current year are published in Part 2 of this report.

## DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT    | NOV    | DEC    | JAN     | FEB     | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------|--------|--------|--------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 1     | 430    | 446    | 7,530  | 3,280   | 5,030   | 1,900  | 2,740  | 893    | 1,400  | 500    | 445    | 1,610  |
| 2     | 460    | 572    | 4,390  | 2,890   | 3,720   | 1,790  | 2,720  | 875    | 1,930  | 476    | 411    | 1,190  |
| 3     | 430    | 494    | 2,630  | 2,750   | 3,120   | 1,680  | 2,820  | 959    | 2,440  | 458    | 431    | 858    |
| 4     | 400    | 421    | 1,940  | 2,850   | 3,950   | 1,570  | 4,130  | 1,080  | 2,370  | 438    | 458    | 1,190  |
| 5     | 379    | 428    | 2,160  | 3,270   | 6,510   | 1,470  | 5,100  | 1,080  | 1,800  | 448    | 461    | 1,010  |
| 6     | 346    | 532    | 2,530  | 3,830   | 4,750   | 1,340  | 5,280  | 1,170  | 2,100  | 1,010  | 413    | 710    |
| 7     | 317    | 542    | 2,270  | 4,220   | 3,500   | 1,310  | 4,860  | 998    | 2,580  | 1,430  | 367    | 770    |
| 8     | 315    | 668    | 1,640  | 4,150   | 3,220   | 1,240  | 3,280  | 879    | 3,810  | 1,060  | 445    | 750    |
| 9     | 389    | 1,610  | 1,340  | 4,270   | 3,330   | 1,150  | 2,500  | 907    | 4,730  | 1,160  | 456    | 1,680  |
| 10    | 411    | 2,160  | 1,200  | 4,130   | 3,160   | 1,100  | 2,840  | 1,150  | 5,260  | 1,020  | 445    | 2,250  |
| 11    | 349    | 1,720  | 1,080  | 4,910   | 2,540   | 1,040  | 2,750  | 1,270  | 4,550  | 783    | 398    | 1,880  |
| 12    | 307    | 958    | 990    | 6,370   | 2,250   | 1,200  | 2,330  | 1,500  | 3,090  | 719    | 362    | 2,000  |
| 13    | 286    | 735    | 933    | 4,720   | 1,980   | 1,330  | 3,390  | 1,950  | 2,510  | 897    | 468    | 1,700  |
| 14    | 403    | 644    | 907    | 7,640   | 1,820   | 1,200  | 6,250  | 1,950  | 2,420  | 744    | 1,050  | 1,480  |
| 15    | 799    | 589    | 854    | 5,470   | 1,970   | 1,050  | 8,540  | 1,690  | 1,930  | 581    | 707    | 1,210  |
| 16    | 773    | 559    | 796    | 4,620   | 2,760   | 1,000  | 6,260  | 2,210  | 1,430  | 524    | 507    | 1,050  |
| 17    | 542    | 545    | 751    | 4,920   | 3,430   | 1,010  | 4,010  | 2,740  | 1,220  | 507    | 443    | 870    |
| 18    | 423    | 537    | 710    | 4,380   | 5,080   | 998    | 2,860  | 3,170  | 1,080  | 461    | 534    | 750    |
| 19    | 360    | 497    | 689    | 3,410   | 5,470   | 983    | 2,210  | 2,540  | 1,060  | 423    | 474    | 670    |
| 20    | 326    | 484    | 837    | 2,860   | 4,200   | 1,360  | 1,860  | 1,590  | 1,060  | 401    | 394    | 600    |
| 21    | 309    | 847    | 1,400  | 2,690   | 3,530   | 2,070  | 1,520  | 1,500  | 935    | 391    | 353    | 545    |
| 22    | 297    | 1,870  | 1,540  | 2,920   | 3,510   | 2,450  | 1,480  | 1,390  | 823    | 453    | 335    | 500    |
| 23    | 289    | 2,540  | 1,280  | 3,140   | 3,430   | 1,100  | 1,500  | 1,910  | 897    | 487    | 349    | 450    |
| 24    | 278    | 2,470  | 1,100  | 3,840   | 5,550   | 3,270  | 1,960  | 2,270  | 983    | 575    | 339    | 425    |
| 25    | 272    | 1,480  | 1,410  | 6,130   | 4,370   | 2,250  | 1,700  | 1,830  | 925    | 601    | 309    | 400    |
| 26    | 271    | 1,170  | 3,000  | 8,410   | 3,290   | 1,810  | 1,390  | 1,750  | 719    | 532    | 291    | 550    |
| 27    | 269    | 1,940  | 6,980  | 8,310   | 2,500   | 1,620  | 1,220  | 2,500  | 550    | 713    | 280    | 750    |
| 28    | 276    | 3,250  | 14,300 | 7,230   | 2,100   | 1,470  | 1,110  | 3,090  | 504    | 1,230  | 291    | 640    |
| 29    | 344    | 10,700 | 9,470  | 7,530   | -----   | 2,100  | 1,030  | 3,140  | 564    | 915    | 355    | 550    |
| 30    | 505    | 11,800 | 6,330  | 7,370   | -----   | 2,740  | 951    | 2,370  | 532    | 641    | 592    | 500    |
| 31    | 451    | -----  | 4,200  | 7,070   | -----   | 3,120  | -----  | 1,530  | -----  | 513    | 1,440  | -----  |
| TOTAL | 12,006 | 53,208 | 87,287 | 153,580 | 101,720 | 52,031 | 91,011 | 53,901 | 55,404 | 21,091 | 14,605 | 29,598 |
| MEAN  | 387    | 1,774  | 2,816  | 4,954   | 3,533   | 1,673  | 3,034  | 1,739  | 1,880  | 680    | 471    | 937    |
| MAX   | 799    | 11,800 | 14,300 | 8,720   | 6,510   | 3,270  | 8,540  | 3,170  | 5,260  | 1,430  | 1,440  | 2,250  |
| MIN   | 269    | 421    | 689    | 2,690   | 1,420   | 983    | 951    | 875    | 532    | 391    | 280    | 400    |
| CFSM  | .49    | 2.25   | 3.53   | 6.29    | 4.52    | 2.13   | 3.85   | 2.21   | 2.39   | .86    | .60    | 1.25   |
| IN.   | .57    | 2.52   | 4.13   | 7.26    | 4.81    | 2.46   | 4.30   | 2.55   | 2.67   | 1.00   | .69    | 1.40   |

CAL YR 1973 TOTAL 759,517 MEAN 2,081 MAX 63,900 MIN 170 CFSM 2.64 IN 35.90  
WTR YR 1974 TOTAL 726,443 MEAN 1,990 MAX 14,300 MIN 269 CFSM 2.53 IN 34.34

## PEAK DISCHARGE (BASE, 6,000 CFS)

| DATE  | TIME | G.H.T. | DISCHARGE | DATE  | TIME | G.H.T. | DISCHARGE |
|-------|------|--------|-----------|-------|------|--------|-----------|
| 11-29 | 2400 | 16.97  | 14,200    | 02-05 | 0800 | 14.65  | 7,040     |
| 12-28 | 1100 | 17.28  | 15,700    | 02-24 | 1700 | 14.33  | 6,330     |
| 01-13 | 1500 | 15.58  | 9,380     | 04-15 | 0800 | 15.48  | 9,100     |
| 01-26 | 2400 | 15.45  | 9,020     |       |      |        |           |



## MOBILE RIVER BASIN

02441000 Tibbee Creek near Tibbee, Miss.

LOCATION.--Lat 33°32'17", long 88°38'00", in SW¼ sec.4, T.19 N., R.16 E., Choctaw meridian, Clay County, on right bank 10 ft (3 m) downstream from bridge on old State Highway 25, 560 ft (170 m) upstream from Gulf, Mobile and Ohio Railroad bridge, 0.7 mile (1.1 km) north of Tibbee, 4.5 miles (7.2 km) upstream from Magee Creek, 5 miles (8 km) south of West Point, and 9.8 miles (15.8 km) upstream from Catalpa Creek.

DRAINAGE AREA.--928 mi<sup>2</sup> (2,404 km<sup>2</sup>).

PERIOD OF RECORD.--August 1928 to September 1930, October 1939 to current year. Monthly discharge only for September 1930 and October 1939, published in WSP 1304. Prior to October 1950, published as Tibbee River near Tibbee.

GAGE.--Water-stage recorder. Datum of gage is 154.07 ft (46.961 m) above mean sea level (levels by Corps of Engineers). Aug. 7, 1928, to Aug. 31, 1930, nonrecording gage at site 560 ft (170 m) downstream at present datum. Nov. 5 to Dec. 6, 1939, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--37 years (1928-30, 1939-73), 1,286 ft<sup>3</sup>/s (36.42 m<sup>3</sup>/s), 18.82 in/yr (478 mm/yr).

EXTREMES.--Current year: Maximum discharge, 22,200 ft<sup>3</sup>/s (629 m<sup>3</sup>/s) Dec. 27 (gage height, 26.11 ft or 7.958 m); minimum, 12 ft<sup>3</sup>/s (0.34 m<sup>3</sup>/s) Oct. 25.

Period of record: Maximum discharge, 81,600 ft<sup>3</sup>/s (2,310 m<sup>3</sup>/s) Mar. 17, 1973 (gage height, 32.26 ft or 9.833 m); no flow at times many years.

Flood in December 1926 reached a stage of 31.5 ft (9.60 m), from information by local residents.

REMARKS.--Records good. Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1504: 1929-30.

## DISCHARGE, IN CUBIC FEET PER SECOND WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT   | NOV    | DEC     | JAN     | FEB     | MAR   | APR    | MAY    | JUN    | JUL   | AUG   | SEP    |
|-------|-------|--------|---------|---------|---------|-------|--------|--------|--------|-------|-------|--------|
| 1     | 367   | 44     | 11,600  | 2,550   | 6,040   | 510   | 5,740  | 206    | 936    | 125   | 72    | 590    |
| 2     | 97    | 61     | 6,560   | 1,440   | 3,960   | 470   | 5,030  | 189    | 1,940  | 106   | 50    | 1,040  |
| 3     | 52    | 60     | 3,670   | 1,780   | 2,240   | 433   | 6,320  | 201    | 1,930  | 92    | 45    | 1,320  |
| 4     | 49    | 51     | 2,020   | 3,620   | 2,730   | 411   | 6,960  | 209    | 1,650  | 79    | 61    | 1,330  |
| 5     | 54    | 242    | 2,710   | 4,720   | 4,360   | 382   | 5,210  | 275    | 1,380  | 78    | 87    | 826    |
| 6     | 77    | 714    | 2,570   | 5,590   | 4,720   | 354   | 2,510  | 352    | 2,560  | 356   | 73    | 474    |
| 7     | 44    | 477    | 1,600   | 6,740   | 3,430   | 334   | 581    | 296    | 4,200  | 541   | 55    | 264    |
| 8     | 152   | 324    | 706     | 7,000   | 4,170   | 312   | 506    | 222    | 4,790  | 477   | 62    | 214    |
| 9     | 334   | 1,480  | 467     | 6,130   | 3,750   | 289   | 961    | 172    | 5,320  | 455   | 75    | 675    |
| 10    | 122   | 2,030  | 367     | 5,950   | 2,390   | 271   | 961    | 142    | 5,060  | 196   | 67    | 990    |
| 11    | 63    | 2,180  | 296     | 7,570   | 1,170   | 277   | 519    | 143    | 4,160  | 146   | 63    | 520    |
| 12    | 36    | 1,200  | 251     | 10,500  | 412     | 842   | 1,150  | 482    | 2,260  | 120   | 54    | 390    |
| 13    | 23    | 360    | 230     | 12,600  | 545     | 1,450 | 6,230  | 790    | 1,330  | 94    | 393   | 424    |
| 14    | 18    | 199    | 218     | 10,600  | 589     | 994   | 14,700 | 371    | 1,880  | 67    | 955   | 510    |
| 15    | 72    | 137    | 201     | 7,940   | 2,470   | 513   | 11,500 | 556    | 2,490  | 53    | 498   | 528    |
| 16    | 115   | 111    | 189     | 7,020   | 5,300   | 371   | 7,820  | 1,900  | 2,540  | 44    | 296   | 397    |
| 17    | 72    | 90     | 171     | 6,570   | 6,520   | 310   | 4,540  | 3,030  | 1,270  | 38    | 175   | 215    |
| 18    | 46    | 77     | 155     | 5,470   | 6,090   | 273   | 1,380  | 5,080  | 444    | 34    | 120   | 150    |
| 19    | 33    | 65     | 144     | 3,770   | 4,900   | 277   | 554    | 5,980  | 978    | 65    | 85    | 116    |
| 20    | 25    | 59     | 1,010   | 2,580   | 3,580   | 1,820 | 419    | 4,210  | 1,560  | 182   | 58    | 133    |
| 21    | 21    | 1,310  | 2,150   | 4,650   | 3,410   | 2,570 | 336    | 1,150  | 1,410  | 189   | 45    | 130    |
| 22    | 18    | 3,170  | 1,900   | 7,170   | 4,360   | 3,350 | 433    | 373    | 513    | 93    | 36    | 111    |
| 23    | 15    | 3,740  | 944     | 6,970   | 6,140   | 3,810 | 1,530  | 815    | 871    | 69    | 31    | 97     |
| 24    | 13    | 3,730  | 562     | 7,390   | 6,510   | 3,440 | 2,150  | 1,580  | 2,320  | 246   | 27    | 76     |
| 25    | 12    | 2,550  | 2,220   | 12,200  | 5,070   | 1,450 | 2,350  | 2,330  | 3,200  | 360   | 25    | 49     |
| 26    | 22    | 1,060  | 7,010   | 15,600  | 2,210   | 542   | 1,530  | 3,500  | 2,200  | 201   | 22    | 46     |
| 27    | 29    | 2,090  | 14,900  | 12,400  | 756     | 518   | 601    | 4,260  | 503    | 142   | 19    | 54     |
| 28    | 30    | 4,060  | 18,900  | 9,940   | 585     | 455   | 378    | 4,380  | 275    | 278   | 18    | 58     |
| 29    | 32    | 12,400 | 11,400  | 9,520   | -----   | 1,500 | 293    | 3,600  | 193    | 207   | 18    | 51     |
| 30    | 36    | 18,400 | 7,150   | 9,150   | -----   | 3,990 | 239    | 1,290  | 148    | 155   | 42    | 57     |
| 31    | 45    | -----  | 4,530   | 7,750   | -----   | 6,510 | -----  | 424    | -----  | 115   | 248   | -----  |
| TOTAL | 2,134 | 62,475 | 111,211 | 223,000 | 100,007 | 9,178 | 93,861 | 48,508 | 60,315 | 5,413 | 3,875 | 11,825 |
| MEAN  | 68.8  | 2,006  | 3,587   | 7,194   | 3,572   | 1,264 | 3,129  | 1,555  | 2,011  | 175   | 125   | 394    |
| MAX   | 367   | 18,400 | 14,900  | 15,600  | 6,510   | 5,510 | 14,700 | 5,980  | 5,320  | 541   | 955   | 1,330  |
| MIN   | 12    | 44     | 144     | 1,440   | 585     | 271   | 239    | 142    | 148    | 34    | 18    | 46     |
| CFSM  | .07   | 2.26   | 3.87    | 7.75    | 3.85    | 1.36  | 3.37   | 1.59   | 2.17   | .19   | .13   | .42    |
| IN.   | .09   | 2.52   | 4.46    | 8.94    | 4.01    | 1.57  | 3.75   | 1.94   | 2.42   | .22   | .16   | .47    |

CAL YR 1973 TOTAL 807,043.5 MEAN 2,211 MAX 74,10 MIN 4.5 CFSM 2.38 IN 32.35  
 WTR YR 1974 TOTAL 762,203.0 MEAN 2,088 MAX 18,90 MIN 12 CFSM 2.25 IN 30.55

## PEAK DISCHARGE (BASE, 10,000 CFS)

| DATE  | TIME | G. H. | DISCHARGE | DATE  | TIME | G. H. | DISCHARGE |
|-------|------|-------|-----------|-------|------|-------|-----------|
| 11-30 | 0130 | 25.91 | 21,000    | 01-26 | 0300 | 25.11 | 16,600    |
| 12-27 | 2030 | 26.11 | 22,200    | 04-14 | 1230 | 25.03 | 16,200    |
| 01-13 | 0330 | 24.18 | 12,700    |       |      |       |           |

## 02441500 Tombigbee River at Columbus, Miss.

LOCATION.--Lat 33°29'21", long 88°25'57", in NW¼ sec.20, T.18 S., R.18 W., Huntsville meridian, Lowndes County, on left bank at Columbus, 1,200 ft (370 m) downstream from bridge on U.S. Highway 45E and 82, 1,800 ft (550 m) upstream from Gulf, Mobile, and Ohio Railroad bridge, 2.3 miles (3.7 km) upstream from Luxapallila Creek, 6.7 miles (10.8 km) downstream from Tibbee Creek, and at mile 319.7 (514.4 km).

DRAINAGE AREA.--4,490 mi<sup>2</sup> (11,630 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--October 1899 to December 1912, August 1928 to current year. Monthly discharge only for some periods, published in WSP 1304. Gage-height records collected in this vicinity since 1890 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 128.91 ft (39.292 m) above mean sea level. Prior to Nov. 7, 1934, nonrecording gage at various sites within 0.2 mile (0.3 km) of present site, at datum 4.00 ft (1.219 m) 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 miles (6.0 km) upstream at different datum. Oct. 1, 1968, to Sept. 30, 1971, auxiliary nonrecording gage 2.1 miles (3.4 km) upstream from base gage at datum 128.82 ft (39.264 m) above mean sea level.

AVERAGE DISCHARGE.--59 years, 6,390 ft<sup>3</sup>/s (181.0 m<sup>3</sup>/s), 19.33 in/yr (491 mm/yr).

EXTREMES.--Current year: Maximum discharge, 50,600 ft<sup>3</sup>/s (1,430 m<sup>3</sup>/s) Jan. 30 (gage height, 30.82 ft or 9.394 m); minimum, 658 ft<sup>3</sup>/s (18.6 m<sup>3</sup>/s) Oct. 27 (gage height, 1.95 ft or 0.594 m).

Period of record: 194,000 ft<sup>3</sup>/s (5,490 m<sup>3</sup>/s) Mar. 19, 1973 (gage height, 42.22 ft or 12.869 m); minimum, 138 ft<sup>3</sup>/s (3.91 m<sup>3</sup>/s) Sept. 20, 1954; minimum gage height observed, -0.1 ft (-0.030 m) Oct. 9-12, 1911, present datum.

Flood of Apr. 8, 1892, reached an elevation of 173.0 ft (52.73 m) above mean sea level at site 1,100 ft (335 m) upstream (corresponding stage at gage about 44 ft or 13.4 m).

REMARKS.--Records good. Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 662: Drainage area. WSP 727: 1928-29. WSP 802: 1929(M). WSP 1504: 1900-1903, 1950.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY         | OCT             | NOV         | DEC         | JAN      | FEB       | MAR      | APR     | MAY     | JUN     | JUL    | AUG    | SEP    |
|-------------|-----------------|-------------|-------------|----------|-----------|----------|---------|---------|---------|--------|--------|--------|
| 1           | 1,690           | 1,140       | 34,700      | 32,600   | 44,000    | 7,940    | 16,500  | 3,150   | 5,730   | 1,690  | 1,510  | 4,030  |
| 2           | 1,340           | 1,270       | 37,200      | 25,500   | 39,100    | 6,790    | 21,200  | 2,970   | 9,310   | 1,570  | 1,310  | 5,750  |
| 3           | 1,280           | 1,450       | 35,600      | 19,900   | 33,000    | 5,120    | 25,000  | 2,900   | 10,500  | 1,450  | 1,400  | 6,390  |
| 4           | 1,040           | 1,390       | 31,000      | 19,700   | 27,700    | 5,650    | 26,800  | 3,000   | 11,000  | 1,410  | 1,590  | 6,870  |
| 5           | 935             | 1,510       | 25,100      | 19,400   | 26,200    | 5,200    | 26,400  | 3,330   | 12,500  | 1,430  | 1,450  | 5,240  |
| 6           | 916             | 2,150       | 20,500      | 20,900   | 27,100    | 4,890    | 23,400  | 3,820   | 13,700  | 1,730  | 1,340  | 3,560  |
| 7           | 805             | 1,970       | 15,100      | 25,800   | 28,500    | 4,600    | 16,800  | 3,970   | 17,300  | 2,250  | 1,210  | 2,570  |
| 8           | 1,080           | 2,020       | 11,200      | 29,600   | 28,500    | 4,410    | 13,500  | 3,520   | 13,400  | 2,650  | 1,270  | 2,650  |
| 9           | 2,060           | 6,450       | 6,750       | 29,600   | 25,000    | 4,160    | 12,000  | 3,250   | 19,000  | 3,120  | 1,510  | 3,900  |
| 10          | 2,690           | 7,010       | 4,920       | 30,700   | 21,100    | 3,930    | 10,600  | 3,450   | 19,500  | 2,930  | 1,480  | 6,120  |
| 11          | 2,240           | 5,650       | 4,130       | 33,000   | 16,400    | 3,850    | 8,340   | 3,650   | 19,000  | 2,750  | 1,320  | 5,550  |
| 12          | 1,910           | 4,500       | 3,620       | 35,800   | 12,100    | 5,300    | 8,940   | 5,350   | 15,900  | 2,590  | 1,290  | 4,580  |
| 13          | 1,570           | 2,820       | 3,310       | 39,700   | 8,980     | 7,070    | 24,700  | 6,770   | 14,200  | 2,350  | 2,060  | 4,170  |
| 14          | 1,150           | 2,020       | 3,070       | 42,700   | 7,310     | 5,880    | 31,300  | 8,530   | 13,200  | 2,410  | 3,680  | 3,730  |
| 15          | 1,490           | 1,690       | 2,920       | 46,700   | 12,200    | 4,700    | 33,300  | 7,050   | 12,300  | 2,440  | 3,720  | 3,520  |
| 16          | 1,810           | 1,510       | 2,790       | 48,700   | 17,600    | 4,040    | 33,300  | 12,700  | 9,910   | 2,190  | 2,920  | 4,150  |
| 17          | 1,740           | 1,400       | 2,590       | 47,400   | 20,300    | 3,740    | 30,000  | 14,600  | 5,950   | 1,930  | 2,150  | 3,430  |
| 18          | 1,430           | 1,340       | 2,430       | 43,900   | 20,900    | 3,600    | 23,300  | 15,500  | 4,510   | 1,810  | 1,740  | 2,750  |
| 19          | 1,150           | 1,290       | 2,320       | 39,000   | 20,500    | 3,520    | 15,700  | 18,800  | 5,240   | 1,590  | 1,520  | 2,200  |
| 20          | 994             | 1,290       | 3,690       | 33,000   | 19,800    | 3,070    | 10,200  | 19,400  | 5,510   | 1,410  | 1,360  | 1,890  |
| 21          | 870             | 3,790       | 6,950       | 28,600   | 19,000    | 11,700   | 6,770   | 15,900  | 4,880   | 1,570  | 1,210  | 1,720  |
| 22          | 905             | 9,830       | 7,350       | 26,500   | 22,500    | 14,100   | 6,210   | 13,000  | 3,800   | 1,320  | 1,130  | 1,520  |
| 23          | 757             | 11,500      | 6,000       | 26,100   | 24,100    | 15,400   | 9,450   | 11,600  | 3,500   | 1,280  | 1,010  | 1,370  |
| 24          | 733             | 10,200      | 4,720       | 28,600   | 24,400    | 15,800   | 10,500  | 11,600  | 5,150   | 1,590  | 987    | 1,250  |
| 25          | 691             | 9,080       | 4,350       | 34,700   | 23,400    | 14,700   | 10,400  | 13,200  | 5,260   | 2,250  | 961    | 1,200  |
| 26          | 674             | 7,140       | 23,100      | 39,500   | 19,700    | 12,500   | 7,470   | 16,700  | 4,800   | 2,150  | 922    | 1,190  |
| 27          | 674             | 9,580       | 31,900      | 43,400   | 14,500    | 10,900   | 5,420   | 20,900  | 3,090   | 1,910  | 831    | 1,230  |
| 28          | 685             | 18,300      | 37,800      | 46,500   | 10,800    | 3,970    | 4,340   | 20,400  | 2,220   | 2,490  | 818    | 1,350  |
| 29          | 715             | 22,900      | 41,800      | 49,700   | -----     | 12,200   | 3,830   | 18,200  | 1,990   | 2,750  | 839    | 1,450  |
| 30          | 864             | 28,600      | 41,700      | 49,900   | -----     | 15,800   | 3,430   | 14,400  | 1,910   | 2,420  | 1,070  | 1,410  |
| 31          | 1,060           | -----       | 38,300      | 48,000   | -----     | 17,500   | -----   | 9,590   | -----   | 1,850  | 2,330  | -----  |
| TOTAL       | 37,848          | 180,900     | 502,910     | 1,087,1M | 515,790   | 255,170  | 479,910 | 314,330 | 282,260 | 53,310 | 47,937 | 96,850 |
| MEAN        | 1,221           | 6,030       | 15,220      | 35,070   | 21,990    | 8,231    | 16,000  | 10,140  | 9,409   | 2,042  | 1,545  | 3,229  |
| MAX         | 2,690           | 28,600      | 41,400      | 49,900   | 44,000    | 17,500   | 33,800  | 20,900  | 19,500  | 3,120  | 3,720  | 6,870  |
| MIN         | 674             | 1,140       | 2,320       | 19,400   | 7,310     | 3,600    | 3,430   | 2,900   | 1,810   | 1,280  | 818    | 1,190  |
| CFSM        | .27             | 1.34        | 3.61        | 7.41     | 4.90      | 1.43     | 3.56    | 2.26    | 2.10    | .45    | .34    | .72    |
| IN.         | .31             | 1.50        | 4.17        | 9.01     | 5.10      | 2.11     | 3.98    | 2.50    | 2.34    | .52    | .40    | .80    |
| CAL YR 1973 | TOTAL 4,359,172 | MEAN 11,940 | MAX 191,000 | MIN 608  | CFSM 2.66 | IN 35.12 |         |         |         |        |        |        |
| WTR YR 1974 | TOTAL 3,964,325 | MEAN 10,860 | MAX 49,900  | MIN 574  | CFSM 2.42 | IN 32.84 |         |         |         |        |        |        |

## MOBILE RIVER BASIN

02443000 Luxapallila Creek at Steens, Miss.

LOCATION.--Lat 33°33'35", long 88°18'55", in NE¼ sec.27, T.17 S., R.17 W., Huntsville meridian, Lowndes County, on left bank at downstream side of highway bridge, 0.2 mile (0.3 km) southeast of Steens, 1 mile (1.6 km) upstream from Yellow Creek, and 6.5 miles (10.5 km) northeast of Columbus.

DRAINAGE AREA.--309 mi<sup>2</sup> (800 km<sup>2</sup>).

PERIOD OF RECORD.--October 1943 to September 1947, October 1949 to current year. Prior to October 1966, published as Luxapallila Creek at Steens.

GAGE.--Water-stage recorder. Datum of gage is 179.45 ft (54.696 m) above mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1947, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--29 years, 488 ft<sup>3</sup>/s (13.82 m<sup>3</sup>/s), 21.45 in/yr (545 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,250 ft<sup>3</sup>/s (205 m<sup>3</sup>/s) Dec. 27 (gage height, 17.10 ft or 5.212 m); minimum, 89 ft<sup>3</sup>/s (2.52 m<sup>3</sup>/s) Oct. 13, 26 (gage height, 3.68 ft or 1.12 m).

Period of record: Maximum discharge, 14,200 ft<sup>3</sup>/s (402 m<sup>3</sup>/s) Feb. 23, 1961 (gage height, 18.90 ft or 5.761 m); minimum, 23 ft<sup>3</sup>/s (0.65 m<sup>3</sup>/s) Aug. 14, 1954 (gage height, 2.52 ft or 0.768 m).

Flood of Jan. 6, 1949, reached a stage of 19.2 ft or 5.85 m (discharge, about 16,000 ft<sup>3</sup>/s or 453 m<sup>3</sup>/s).

REMARKS.--Records good. Records of chemical analyses for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height record and 9 discharge measurements furnished by Corps of Engineers.

REVISIONS (WATER YEARS).--WSP 1172: 1946(M).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT   | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL   | AUG   | SEP   |
|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 1     | 212   | 141    | 1,050  | 1,100  | 1,390  | 745    | 989    | 428    | 495    | 211   | 179   | 407   |
| 2     | 201   | 144    | 646    | 1,050  | 1,180  | 706    | 2,420  | 419    | 517    | 203   | 168   | 436   |
| 3     | 155   | 144    | 543    | 846    | 1,190  | 649    | 4,320  | 414    | 495    | 195   | 282   | 551   |
| 4     | 127   | 143    | 505    | 969    | 1,080  | 634    | 2,620  | 410    | 423    | 187   | 330   | 414   |
| 5     | 116   | 172    | 875    | 1,240  | 724    | 506    | 2,840  | 410    | 454    | 182   | 264   | 297   |
| 6     | 107   | 169    | 410    | 1,260  | 432    | 578    | 1,510  | 428    | 501    | 204   | 223   | 236   |
| 7     | 103   | 175    | 613    | 2,450  | 1,150  | 565    | 1,030  | 410    | 862    | 336   | 203   | 204   |
| 8     | 101   | 195    | 488    | 2,860  | 2,040  | 541    | 963    | 378    | 1,410  | 318   | 269   | 266   |
| 9     | 98    | 403    | 421    | 1,860  | 1,510  | 517    | 969    | 356    | 1,570  | 410   | 310   | 850   |
| 10    | 98    | 496    | 344    | 2,570  | 1,040  | 436    | 957    | 386    | 1,120  | 417   | 241   | 1,210 |
| 11    | 98    | 493    | 354    | 3,050  | 924    | 570    | 728    | 428    | 840    | 336   | 192   | 618   |
| 12    | 91    | 306    | 330    | 4,180  | 429    | 1,050  | 1,010  | 651    | 548    | 290   | 165   | 404   |
| 13    | 89    | 239    | 315    | 2,950  | 756    | 1,000  | 3,840  | 1,150  | 538    | 402   | 178   | 315   |
| 14    | 103   | 201    | 303    | 1,680  | 717    | 669    | 6,060  | 634    | 812    | 366   | 233   | 297   |
| 15    | 157   | 186    | 294    | 1,650  | 436    | 555    | 2,900  | 591    | 522    | 282   | 243   | 315   |
| 16    | 259   | 149    | 273    | 1,470  | 1,500  | 527    | 1,550  | 753    | 494    | 328   | 192   | 352   |
| 17    | 189   | 176    | 263    | 1,400  | 2,040  | 498    | 1,090  | 1,000  | 428    | 310   | 178   | 297   |
| 18    | 148   | 169    | 246    | 1,150  | 1,750  | 474    | 413    | 674    | 405    | 239   | 152   | 233   |
| 19    | 124   | 162    | 252    | 422    | 1,240  | 489    | 301    | 517    | 402    | 208   | 138   | 198   |
| 20    | 113   | 152    | 437    | 463    | 1,450  | 1,190  | 717    | 436    | 402    | 192   | 127   | 172   |
| 21    | 107   | 297    | 564    | 1,420  | 1,260  | 2,130  | 653    | 406    | 362    | 179   | 119   | 150   |
| 22    | 103   | 1,030  | 777    | 1,700  | 2,470  | 1,600  | 755    | 436    | 318    | 182   | 113   | 140   |
| 23    | 101   | 1,100  | 530    | 1,250  | 2,450  | 1,090  | 1,150  | 457    | 325    | 350   | 112   | 130   |
| 24    | 101   | 569    | 433    | 1,770  | 1,520  | 847    | 1,050  | 555    | 358    | 302   | 111   | 130   |
| 25    | 98    | 426    | 745    | 3,150  | 1,140  | 735    | 743    | 476    | 362    | 252   | 106   | 130   |
| 26    | 89    | 354    | 5,000  | 3,950  | 938    | 577    | 643    | 799    | 306    | 228   | 101   | 150   |
| 27    | 91    | 672    | 7,210  | 2,440  | 429    | 556    | 573    | 2,040  | 265    | 219   | 97    | 300   |
| 28    | 113   | 2,430  | 7,010  | 2,750  | 778    | 517    | 529    | 1,990  | 245    | 328   | 101   | 230   |
| 29    | 116   | 4,550  | 3,230  | 4,330  | -----  | 1,140  | 489    | 953    | 232    | 292   | 133   | 190   |
| 30    | 144   | 2,530  | 1,450  | 3,740  | -----  | 2,430  | 454    | 674    | 219    | 243   | 195   | 170   |
| 31    | 147   | -----  | 1,360  | 2,040  | -----  | 1,350  | -----  | 553    | -----  | 200   | 261   | ----- |
| TOTAL | 3,909 | 19,313 | 34,055 | 64,940 | 35,453 | 25,349 | 45,332 | 20,302 | 15,635 | 8,401 | 5,716 | 9,812 |
| MEAN  | 126   | 644    | 1,223  | 2,095  | 1,302  | 851    | 1,511  | 555    | 555    | 271   | 184   | 327   |
| MAX   | 259   | 4,550  | 7,210  | 4,330  | 2,470  | 2,430  | 6,060  | 2,040  | 1,570  | 417   | 330   | 1,210 |
| MIN   | 89    | 141    | 246    | 896    | 717    | 478    | 454    | 356    | 219    | 179   | 97    | 130   |
| CFSM  | .41   | 2.04   | 3.47   | 6.78   | 4.21   | 2.75   | 4.89   | 2.12   | 1.80   | .88   | .60   | 1.06  |
| IN.   | .47   | 2.33   | 4.58   | 7.42   | 4.39   | 3.18   | 5.46   | 2.44   | 2.00   | 1.01  | .69   | 1.18  |

CAL YR 1973 TOTAL 311,400 AFRQ 853 MAX 11,400 MIN 42 CFSM 2.76 IN 37.49  
 WTR YR 1974 TOTAL 295,254 AFRQ 809 MAX 7,210 MIN 89 CFSM 2.52 IN 35.55

## PEAK DISCHARGE (BASE, 5,000 CFS)

| DATE  | TIME | G. H. | DISCHARGE | DATE  | TIME | G. H. | DISCHARGE |
|-------|------|-------|-----------|-------|------|-------|-----------|
| 12-27 | 1800 | 17.10 | 7,250     | 01-29 | 2400 | 15.81 | 5,100     |

02444500 Tombigbee River near Cochrane, Ala.

LOCATION.--Lat 33°04'45", long 88°14'18", in sec. 7, T. 24 N., R. 2 W., Pickens County, near left bank on downstream side of bridge on State Highway 17, 200 ft (61 m) upstream from Alabama, Tennessee and Northern Railroad bridge, 1.2 miles (1.9 km) northeast of Cochrane, 2.2 miles (3.5 km) downstream from Boguechitto Creek, 7 miles (11 km) southwest of Aliceville, and at mile 271.4 (436.7 km).

DRAINAGE AREA.--5,990 mi<sup>2</sup> (15,500 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--October 1938 to current year. Monthly discharge only for period October to December 1938, published in WSP 1304. Gage-height records collected at same site November 1909 to September 1924 are contained in reports of the National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 89.85 ft (27.386 m) above mean sea level. Prior to July 10, 1939, nonrecording gage at site 200 ft (61 m) downstream at same datum. Since Jan. 30, 1940, auxiliary water-stage recorder or nonrecording gage 14 miles (23 km) downstream from base gage at datum 7.76 ft (2.365 m) lower.

AVERAGE DISCHARGE.--36 years, 8,505 ft<sup>3</sup>/s (240.9 m<sup>3</sup>/s), 19.28 in/yr (490 mm/yr).

EXTREMES.--Current year. Maximum discharge, 52,500 ft<sup>3</sup>/s (1,490 m<sup>3</sup>/s) Jan. 31; maximum gage height, 37.47 ft or 11.421 m Feb. 1; minimum daily discharge, 820 ft<sup>3</sup>/s (23.2 m<sup>3</sup>/s) Oct. 28, 29.

Period of record: Maximum discharge, 166,000 ft<sup>3</sup>/s (4,700 m<sup>3</sup>/s) Mar. 21, 1973; maximum gage height, 47.37 ft or 14.438 m Mar. 21, 1973; minimum discharge, 165 ft<sup>3</sup>/s (4.67 m) Sept. 21, 1954 (gage height, 2.34 ft or 0.713 m).

Flood in April 1892 reached a stage of 50.2 ft (15.30 m) present datum (discharge not determined), from reports of National Weather Service.

REMARKS.--Records poor.

COOPERATION.--Gage-height record and three discharge measurements furnished by the Corps of Engineers.

## DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT    | NOV     | DEC     | JAN       | FEB     | MAR     | APR     | MAY     | JUN     | JUL    | AUG    | SEP     |
|-------|--------|---------|---------|-----------|---------|---------|---------|---------|---------|--------|--------|---------|
| 1     | 1,610  | 1,240   | 33,100  | 41,200    | 51,000  | 18,000  | 24,600  | 5,050   | 14,000  | 2,450  | 2,390  | 4,090   |
| 2     | 1,990  | 1,310   | 35,200  | 38,700    | 49,000  | 12,000  | 25,100  | 4,670   | 11,000  | 2,290  | 1,980  | 7,890   |
| 3     | 1,770  | 1,440   | 37,700  | 34,200    | 48,000  | 9,200   | 29,100  | 4,390   | 13,000  | 2,160  | 1,790  | 12,100  |
| 4     | 1,510  | 1,640   | 39,000  | 32,300    | 45,000  | 8,300   | 33,700  | 4,310   | 14,100  | 2,050  | 1,950  | 11,400  |
| 5     | 1,200  | 1,650   | 38,100  | 30,100    | 38,000  | 7,300   | 37,000  | 4,910   | 15,800  | 1,980  | 2,210  | 10,200  |
| 6     | 1,070  | 1,800   | 34,800  | 29,200    | 36,000  | 6,800   | 36,500  | 5,290   | 19,800  | 2,090  | 2,000  | 6,770   |
| 7     | 1,000  | 2,460   | 29,700  | 33,200    | 35,000  | 6,300   | 33,500  | 5,670   | 21,700  | 2,470  | 1,850  | 4,680   |
| 8     | 980    | 2,500   | 22,600  | 35,800    | 36,000  | 6,000   | 26,600  | 5,500   | 23,600  | 3,200  | 1,710  | 5,010   |
| 9     | 1,250  | 4,350   | 13,600  | 37,400    | 35,000  | 5,700   | 20,400  | 4,890   | 24,900  | 3,770  | 1,940  | 7,130   |
| 10    | 2,190  | 10,100  | 8,390   | 39,400    | 32,000  | 5,500   | 16,500  | 4,610   | 25,300  | 4,440  | 2,380  | 9,030   |
| 11    | 2,760  | 9,090   | 6,160   | 41,700    | 29,000  | 5,400   | 13,700  | 5,010   | 25,300  | 4,140  | 2,280  | 10,200  |
| 12    | 2,250  | 6,570   | 5,200   | 43,600    | 25,000  | 5,400   | 14,600  | 6,240   | 24,300  | 3,700  | 1,920  | 8,250   |
| 13    | 1,930  | 4,850   | 4,600   | 43,800    | 20,000  | 6,600   | 32,600  | 10,700  | 21,700  | 3,330  | 2,060  | 6,920   |
| 14    | 1,580  | 3,100   | 4,150   | 43,900    | 15,000  | 8,500   | 36,000  | 12,900  | 18,600  | 3,200  | 3,800  | 6,150   |
| 15    | 1,250  | 2,340   | 3,950   | 45,500    | 24,000  | 7,100   | 37,700  | 11,800  | 17,200  | 3,260  | 5,400  | 5,220   |
| 16    | 1,660  | 1,990   | 3,720   | 46,500    | 29,000  | 6,200   | 38,100  | 15,900  | 15,600  | 3,150  | 4,890  | 5,400   |
| 17    | 2,070  | 1,780   | 3,440   | 48,600    | 30,000  | 5,300   | 38,000  | 18,700  | 12,400  | 2,850  | 3,710  | 5,370   |
| 18    | 1,970  | 1,670   | 3,190   | 48,100    | 31,000  | 4,900   | 36,300  | 19,800  | 8,670   | 2,600  | 2,840  | 4,400   |
| 19    | 1,610  | 1,580   | 3,010   | 47,300    | 30,000  | 4,800   | 32,600  | 21,400  | 7,170   | 2,430  | 2,320  | 3,510   |
| 20    | 1,310  | 1,550   | 4,920   | 45,800    | 29,000  | 12,000  | 26,500  | 23,200  | 8,150   | 2,110  | 2,070  | 2,880   |
| 21    | 1,120  | 3,100   | 9,080   | 42,700    | 29,000  | 17,000  | 18,100  | 23,600  | 7,630   | 1,930  | 1,860  | 2,520   |
| 22    | 1,000  | 9,320   | 11,300  | 38,700    | 29,000  | 18,700  | 10,700  | 20,800  | 6,350   | 2,020  | 1,670  | 2,290   |
| 23    | 940    | 14,600  | 10,700  | 36,600    | 30,000  | 20,200  | 13,300  | 16,800  | 4,970   | 1,850  | 1,550  | 2,060   |
| 24    | 900    | 15,100  | 8,580   | 37,100    | 31,000  | 20,900  | 15,600  | 15,500  | 5,770   | 1,880  | 1,450  | 1,900   |
| 25    | 870    | 13,200  | 11,400  | 39,400    | 30,000  | 20,800  | 15,100  | 16,000  | 7,590   | 2,300  | 1,400  | 1,820   |
| 26    | 850    | 11,400  | 25,700  | 42,400    | 29,000  | 18,800  | 13,200  | 19,300  | 7,500   | 2,930  | 1,370  | 1,790   |
| 27    | 830    | 11,200  | 35,000  | 44,800    | 27,000  | 16,100  | 10,600  | 26,100  | 5,840   | 2,750  | 1,320  | 1,740   |
| 28    | 820    | 24,900  | 39,200  | 47,400    | 22,000  | 14,100  | 7,870   | 28,600  | 3,750   | 2,540  | 1,260  | 1,820   |
| 29    | 820    | 27,900  | 41,400  | 50,300    | -----   | 16,800  | 6,440   | 26,000  | 2,990   | 3,290  | 1,250  | 1,970   |
| 30    | 900    | 30,300  | 43,600  | 51,300    | -----   | 24,100  | 5,640   | 24,000  | 2,670   | 3,450  | 1,320  | 2,040   |
| 31    | 1,040  | -----   | 43,400  | 51,300    | -----   | 25,000  | -----   | 20,000  | -----   | 2,960  | 1,710  | -----   |
| TOTAL | 43,050 | 224,030 | 613,890 | 1,288,330 | 894,000 | 363,800 | 705,650 | 431,640 | 397,350 | 85,570 | 67,650 | 156,550 |
| MEAN  | 1,389  | 7,468   | 19,800  | 41,560    | 31,930  | 11,740  | 23,520  | 13,920  | 13,250  | 2,760  | 2,182  | 5,218   |
| MAX   | 2,760  | 30,300  | 43,600  | 51,300    | 51,000  | 25,000  | 38,100  | 28,600  | 25,300  | 4,440  | 5,400  | 12,100  |
| MIN   | 820    | 1,240   | 3,010   | 29,200    | 15,000  | 4,800   | 5,640   | 4,310   | 2,670   | 1,850  | 1,250  | 1,740   |
| CFSM  | .23    | 1.25    | 3.31    | 6.94      | 5.33    | 1.96    | 3.93    | 2.32    | 2.21    | .46    | .36    | .87     |
| IN.   | .27    | 1.39    | 3.81    | 8.00      | 5.55    | 2.26    | 4.38    | 2.68    | 2.47    | .53    | .42    | .97     |

CAL YR 1973 TOTAL 5,261,173 MEAN 14,410 MAX 164,000 MIN 720 CFSM 2.41 IN 32.67  
WTR YR 1974 TOTAL 5,271,480 MEAN 14,440 MAX 51,300 MIN 820 CFSM 2.41 IN 32.74

NOTE.--No gage-height record Jan. 31 to Mar. 21.



## MOBILE RIVER BASIN

02448000 Noxubee River at Macon, Miss.

LOCATION.--Lat 33°06'05", long 88°33'40", in NE¼ sec.4, T.14 N., R.17 E., Choctaw meridian, Noxubee County, on left bank at downstream side of bridge on U.S. Highway 45 at Macon, 0.2 mile (0.3 km) upstream from Cedar Creek, 1.0 mile (1.6 km) downstream from Gulf, Mobile and Ohio Railroad bridge, 1.5 miles (2.4 km) downstream from Horse Hunters Creek, and 6.2 miles (10.0 km) upstream from Running Water Creek.

DRAINAGE AREA.--812 mi<sup>2</sup> (2,103 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 142.38 ft (43.397 m) above mean sea level (levels by Corps of Engineers). Prior to May 31, 1932, nonrecording gage at site 40 ft (12 m) downstream at different datum. Sept. 21, 1938, to Aug. 10, 1939, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--40 years, 983 ft<sup>3</sup>/s (27.84 m<sup>3</sup>/s), 16.44 in/yr (418 mm/yr).

EXTREMES.--Current year: Maximum discharge, 22,100 ft<sup>3</sup>/s (626 m<sup>3</sup>/s) Apr. 13 (gage height, 29.85 ft or 9.098 m); minimum, 56 ft<sup>3</sup>/s (1.59 m<sup>3</sup>/s) Oct. 27, 28 (gage height, 6.08 ft or 1.853 m).  
Period of record: Maximum discharge, 52,000 ft<sup>3</sup>/s (1,470 m<sup>3</sup>/s) Mar. 30, 1951 (gage height, 32.97 ft or 10.049 m); minimum, 22 ft<sup>3</sup>/s (0.623 m<sup>3</sup>/s) Aug. 25, 26, 1943 (gage height, 4.89 ft or 1.490 m).  
Flood in July 1892 reached a stage of about 34 feet (10.4 m), present site and datum, from information by local residents, and has not been exceeded since. Flood in December 1926 reached a stage of about 30 feet (9.1 m).

REMARKS.--Records good. Occasional slight regulation by Bluff Lake at low water. Records for chemical analyses for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1624: 1929-30, 1932.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT   | NOV    | DEC    | JAN     | FEB     | MAR    | APR     | MAY    | JUN    | JUL   | AUG   | SEP   |
|-------|-------|--------|--------|---------|---------|--------|---------|--------|--------|-------|-------|-------|
| 1     | 76    | 65     | 3,850  | 6,330   | 5,950   | 1,130  | 4,140   | 520    | 346    | 343   | 155   | 150   |
| 2     | 111   | 81     | 2,330  | 5,380   | 5,300   | 832    | 3,960   | 448    | 475    | 278   | 241   | 230   |
| 3     | 138   | 69     | 1,560  | 3,850   | 4,680   | 796    | 4,170   | 406    | 601    | 237   | 226   | 457   |
| 4     | 157   | 68     | 1,700  | 3,620   | 3,680   | 661    | 5,800   | 367    | 478    | 216   | 157   | 457   |
| 5     | 129   | 78     | 2,420  | 3,490   | 1,870   | 577    | 7,240   | 359    | 430    | 244   | 172   | 241   |
| 6     | 136   | 135    | 1,800  | 3,500   | 1,320   | 526    | 6,280   | 378    | 1,690  | 724   | 152   | 195   |
| 7     | 104   | 129    | 1,140  | 6,020   | 3,040   | 490    | 4,870   | 351    | 2,130  | 823   | 134   | 230   |
| 8     | 99    | 331    | 829    | 8,610   | 3,800   | 478    | 2,270   | 323    | 2,090  | 451   | 133   | 859   |
| 9     | 91    | 835    | 607    | 7,980   | 3,400   | 448    | 970     | 313    | 2,490  | 508   | 162   | 523   |
| 10    | 101   | 455    | 481    | 10,800  | 2,630   | 424    | 733     | 290    | 2,250  | 469   | 136   | 383   |
| 11    | 95    | 255    | 394    | 15,600  | 2,370   | 406    | 619     | 290    | 2,080  | 409   | 125   | 538   |
| 12    | 87    | 264    | 336    | 13,300  | 2,310   | 397    | 2,380   | 535    | 1,790  | 336   | 152   | 493   |
| 13    | 80    | 190    | 300    | 11,200  | 1,770   | 610    | 14,600  | 961    | 1,150  | 288   | 161   | 400   |
| 14    | 79    | 145    | 290    | 10,300  | 1,180   | 676    | 17,800  | 595    | 757    | 246   | 346   | 359   |
| 15    | 83    | 124    | 273    | 11,000  | 4,310   | 580    | 10,100  | 475    | 532    | 205   | 535   | 349   |
| 16    | 93    | 113    | 273    | 10,800  | 5,570   | 484    | 10,100  | 553    | 409    | 187   | 430   | 273   |
| 17    | 115   | 107    | 244    | 8,350   | 5,880   | 424    | 8,980   | 628    | 338    | 191   | 349   | 224   |
| 18    | 120   | 95     | 216    | 6,320   | 5,460   | 380    | 6,820   | 457    | 285    | 209   | 257   | 170   |
| 19    | 79    | 86     | 205    | 5,490   | 4,920   | 383    | 5,630   | 349    | 281    | 496   | 189   | 143   |
| 20    | 66    | 86     | 1,330  | 4,950   | 4,640   | 1,710  | 4,140   | 290    | 313    | 278   | 164   | 129   |
| 21    | 65    | 732    | 1,740  | 4,760   | 4,450   | 3,420  | 1,450   | 253    | 271    | 255   | 152   | 120   |
| 22    | 71    | 1,030  | 1,170  | 4,280   | 4,880   | 3,350  | 1,610   | 233    | 260    | 293   | 140   | 112   |
| 23    | 67    | 690    | 1,010  | 3,740   | 4,860   | 2,560  | 3,180   | 233    | 349    | 303   | 131   | 108   |
| 24    | 63    | 555    | 811    | 4,410   | 4,550   | 2,210  | 2,920   | 241    | 1,510  | 264   | 125   | 102   |
| 25    | 60    | 402    | 3,320  | 5,950   | 3,530   | 2,160  | 2,090   | 216    | 1,560  | 269   | 118   | 105   |
| 26    | 58    | 277    | 9,060  | 12,200  | 2,900   | 1,860  | 2,000   | 1,910  | 1,500  | 233   | 115   | 162   |
| 27    | 56    | 822    | 14,400 | 14,200  | 2,720   | 1,150  | 2,090   | 4,230  | 1,640  | 203   | 112   | 191   |
| 28    | 58    | 5,180  | 10,700 | 15,300  | 2,070   | 811    | 1,860   | 3,410  | 1,540  | 195   | 111   | 159   |
| 29    | 58    | 5,230  | 8,740  | 16,200  | -----   | 2,810  | 1,100   | 1,090  | 868    | 189   | 114   | 235   |
| 30    | 65    | 4,990  | 9,430  | 11,500  | -----   | 4,330  | 676     | 571    | 472    | 174   | 120   | 380   |
| 31    | 63    | -----  | 8,010  | 7,440   | -----   | 4,700  | -----   | 412    | -----  | 162   | 136   | ----- |
| TOTAL | 2,723 | 23,619 | 88,969 | 256,870 | 104,040 | 41,773 | 140,578 | 21,687 | 30,885 | 9,678 | 5,750 | 8,467 |
| MEAN  | 87.8  | 787    | 2,870  | 8,286   | 3,716   | 1,348  | 4,686   | 700    | 1,030  | 312   | 185   | 282   |
| MAX   | 157   | 5,230  | 14,400 | 16,200  | 5,950   | 4,700  | 17,800  | 4,230  | 2,490  | 823   | 535   | 859   |
| MIN   | 56    | 65     | 205    | 3,490   | 1,180   | 380    | 619     | 216    | 260    | 162   | 111   | 102   |
| CFSM  | .11   | .97    | 3.53   | 10.2    | 4.58    | 1.66   | 5.77    | .86    | 1.27   | .38   | .23   | .35   |
| IN.   | .12   | 1.08   | 4.08   | 11.77   | 4.77    | 1.91   | 6.44    | .99    | 1.41   | .44   | .26   | .39   |

CAL YR 1973 TOTAL 653,887 MEAN 1,791 MAX 29,800 MIN 56 CFSM 2.21 IN 29.96  
WTR YR 1974 TOTAL 735,039 MEAN 2,014 MAX 17,800 MIN 56 CFSM 2.48 IN 33.67

## PEAK DISCHARGE (BASE, 5,000 CFS)

| DATE  | TIME | G.HT. | DISCHARGE | DATE  | TIME | G.HT. | DISCHARGE |
|-------|------|-------|-----------|-------|------|-------|-----------|
| 11-28 | 1500 | 23.97 | 5,530     | 02-17 | 1300 | 24.92 | 5,940     |
| 12-27 | 1000 | 28.52 | 15,100    | 04-05 | 1600 | 26.17 | 7,550     |
| 01-11 | 1200 | 28.77 | 16,400    | 04-13 | 2300 | 29.85 | 22,100    |
| 01-28 | 2400 | 28.95 | 17,200    |       |      |       |           |



02448500 Noxubee River near Geiger, Ala.

LOCATION.--Lat 32°55'06", long 88°17'45", in SE¼ sec. 33, T. 23 N., R. 3 W., Sumter County, near left bank on downstream side of bridge on State Highway 17, 0.5 mile (0.8 km) upstream from Woodards Creek, 1 mile (1.6 km) upstream from Alabama, Tennessee and Northern Railroad bridge, 4 miles (6.4 km) north of Geiger, and at mile 16.9 (27.2 km).

DRAINAGE AREA.--1,140 mi<sup>2</sup> (2,950 km<sup>2</sup>), approximately.

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).

GAGE.--Water-stage recorder. Datum of gage is 86.08 ft (26.237 m) above mean sea level. Prior to Sept. 30, 1940, nonrecording gage at site of old highway bridge 1 mile (1.6 km) downstream at datum 84.64 ft (25.798 m) above mean sea level. July 26, 1944, to June 5, 1949, nonrecording gage at present site and datum. Water-stage recorder for Tombigbee River at Gainesville is used as an auxiliary gage for this station.

AVERAGE DISCHARGE.--30 years (1939-40, 1944-65, 1966-74), 1,476 ft<sup>3</sup>/s (41.80 m<sup>3</sup>/s), 17.57 in/yr (446 mm/yr).

EXTREMES.--Current year: Maximum discharge, 18,600 ft<sup>3</sup>/s (527 m<sup>3</sup>/s) Apr. 16; (gage height 37.78 ft or 11.515 m); minimum discharge, 70 ft<sup>3</sup>/s (1.98 m<sup>3</sup>/s) Oct. 30, 31.

Period of record: Maximum discharge, 37,600 ft<sup>3</sup>/s (1,060 m<sup>3</sup>/s) Mar. 31, 1951 (gage height, 42.7 ft or 13.01 m); minimum discharge, 13 ft<sup>3</sup>/s (0.37 m<sup>3</sup>/s) July 7, 1954.

REMARKS.--Records fair. Discharge includes flow of Noxubee cutoff channel at bridge on State Highway 17, 1 mile north of gage.

REVISIONS.--WSP 1384: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY         | OCT           | NOV        | DEC        | JAN     | FEB       | MAR      | APR     | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------------|---------------|------------|------------|---------|-----------|----------|---------|--------|--------|--------|--------|--------|
| 1           | 173           | 76         | 5,230      | 11,500  | 15,600    | 1,960    | 4,300   | 769    | 630    | 563    | 240    | 1,530  |
| 2           | 116           | 76         | 4,190      | 10,200  | 12,800    | 1,210    | 4,000   | 620    | 3,020  | 443    | 230    | 2,870  |
| 3           | 96            | 76         | 2,360      | 8,970   | 9,960     | 924      | 3,680   | 556    | 1,830  | 381    | 377    | 1,830  |
| 4           | 128           | 85         | 1,680      | 7,870   | 7,670     | 869      | 5,070   | 520    | 616    | 338    | 777    | 760    |
| 5           | 153           | 92         | 2,550      | 6,430   | 5,620     | 771      | 6,790   | 486    | 1,210  | 314    | 399    | 540    |
| 6           | 163           | 87         | 2,420      | 5,050   | 3,390     | 674      | 7,100   | 471    | 5,380  | 325    | 230    | 387    |
| 7           | 142           | 102        | 1,670      | 6,320   | 3,070     | 630      | 6,950   | 480    | 5,380  | 622    | 220    | 337    |
| 8           | 137           | 239        | 1,050      | 7,470   | 4,700     | 594      | 6,300   | 466    | 2,860  | 880    | 410    | 2,940  |
| 9           | 115           | 1,540      | 732        | 7,900   | 4,620     | 590      | 4,120   | 440    | 1,940  | 575    | 427    | 4,700  |
| 10          | 116           | 1,960      | 593        | 8,310   | 3,760     | 568      | 1,310   | 426    | 2,090  | 553    | 296    | 1,950  |
| 11          | 109           | 852        | 538        | 9,250   | 2,760     | 549      | 690     | 420    | 1,930  | 503    | 230    | 578    |
| 12          | 109           | 415        | 486        | 10,800  | 2,280     | 615      | 2,640   | 558    | 1,730  | 471    | 220    | 546    |
| 13          | 104           | 357        | 438        | 11,700  | 2,170     | 562      | 13,400  | 1,050  | 1,610  | 420    | 308    | 536    |
| 14          | 97            | 314        | 406        | 12,700  | 1,850     | 639      | 16,900  | 949    | 1,060  | 363    | 1,420  | 484    |
| 15          | 91            | 248        | 408        | 14,200  | 5,310     | 723      | 17,800  | 642    | 663    | 355    | 818    | 432    |
| 16          | 97            | 198        | 429        | 14,400  | 7,960     | 675      | 18,100  | 744    | 504    | 304    | 625    | 428    |
| 17          | 100           | 176        | 397        | 13,600  | 8,440     | 582      | 15,700  | 617    | 438    | 276    | 605    | 363    |
| 18          | 105           | 167        | 366        | 12,200  | 7,660     | 524      | 13,100  | 549    | 416    | 269    | 588    | 319    |
| 19          | 131           | 157        | 327        | 11,100  | 7,520     | 539      | 11,200  | 419    | 387    | 278    | 385    | 269    |
| 20          | 124           | 144        | 1,630      | 10,200  | 7,430     | 4,060    | 9,740   | 309    | 363    | 443    | 296    | 235    |
| 21          | 96            | 1,080      | 3,410      | 9,570   | 6,490     | 5,130    | 8,100   | 249    | 389    | 648    | 240    | 216    |
| 22          | 83            | 1,700      | 2,480      | 7,900   | 6,520     | 4,640    | 5,090   | 229    | 377    | 478    | 220    | 199    |
| 23          | 80            | 1,390      | 1,540      | 6,270   | 6,720     | 3,780    | 4,420   | 246    | 370    | 518    | 200    | 186    |
| 24          | 81            | 864        | 1,220      | 5,720   | 5,980     | 2,720    | 4,030   | 270    | 454    | 590    | 190    | 178    |
| 25          | 80            | 646        | 3,870      | 6,560   | 4,920     | 2,160    | 3,110   | 280    | 1,240  | 381    | 180    | 175    |
| 26          | 77            | 525        | 11,400     | 7,190   | 3,650     | 2,050    | 2,280   | 416    | 1,460  | 359    | 175    | 236    |
| 27          | 74            | 559        | 14,100     | 7,900   | 2,730     | 1,820    | 2,000   | 3,190  | 1,380  | 329    | 170    | 326    |
| 28          | 73            | 3,590      | 13,200     | 8,580   | 2,430     | 1,290    | 2,000   | 4,050  | 1,470  | 296    | 166    | 337    |
| 29          | 72            | 6,210      | 12,400     | 11,200  | -----     | 2,430    | 1,830   | 3,290  | 1,410  | 276    | 175    | 1,510  |
| 30          | 71            | 5,830      | 12,100     | 13,800  | -----     | 4,320    | 1,210   | 1,280  | 922    | 260    | 180    | 1,300  |
| 31          | 72            | -----      | 12,300     | 16,200  | -----     | 4,390    | -----   | 434    | -----  | 250    | 520    | -----  |
| TOTAL       | 3,265         | 29,755     | 115,920    | 301,060 | 164,010   | 52,988   | 202,960 | 25,425 | 43,529 | 13,061 | 11,517 | 26,697 |
| MEAN        | 105           | 992        | 3,739      | 9,712   | 5,858     | 1,709    | 6,765   | 820    | 1,451  | 421    | 372    | 890    |
| MAX         | 173           | 6,210      | 14,100     | 16,200  | 15,600    | 5,130    | 18,100  | 4,050  | 5,380  | 880    | 1,420  | 4,700  |
| MIN         | 71            | 76         | 327        | 5,050   | 1,850     | 524      | 690     | 229    | 363    | 250    | 166    | 175    |
| CFSM        | .09           | .87        | 3.28       | 8.52    | 5.14      | 1.50     | 5.93    | .72    | 1.27   | .37    | .33    | .78    |
| IN.         | .11           | .97        | 3.78       | 9.82    | 5.35      | 1.73     | 6.62    | .83    | 1.42   | .43    | .38    | .87    |
| CAL YR 1973 | TOTAL 881,945 | MEAN 2,416 | MAX 20,100 | MIN 71  | CFSM 2.12 | IN 28.78 |         |        |        |        |        |        |
| WTR YR 1974 | TOTAL 990,187 | MEAN 2,713 | MAX 18,100 | MIN 71  | CFSM 2.38 | IN 32.31 |         |        |        |        |        |        |

## PASCAGOULA RIVER BASIN

02472000 Leaf River near Collins, Miss.

LOCATION.--Lat 31°42'25", long 89°24'25", in NE¼ sec.33, T.9 N., R.14 W., St. Stephens meridian, Covington County, on right bank at downstream side of bridge on U.S. Highway 84, 2 miles (3 km) downstream from Oakohay Creek, 8 miles (13 km) upstream from Big Creek, 9.5 miles (15.3 km) northeast of Collins, and at mile 114.5 (184.2 km).

DRAINAGE AREA.--752 mi<sup>2</sup> (1,948 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 197.48 ft (60.192 m) above mean sea level (Mississippi State Highway Department bench mark). Prior to Dec. 8, 1938, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--36 years, 1,052 ft<sup>3</sup>/s (29.79 m<sup>3</sup>/s), 19.00 in/yr (483 mm/yr).

EXTREMES.--Current year: Maximum discharge, 54,200 ft<sup>3</sup>/s (1,540 m<sup>3</sup>/s) Apr. 14 (gage height, 32.6 ft or 9.936 m, from floodmark); minimum, 180 ft<sup>3</sup>/s (5.10 m<sup>3</sup>/s) Oct. 28 (gage height, 4.50 ft or 1.372 m).  
Period of record: Maximum discharge, 54,200 ft<sup>3</sup>/s (1,540 m<sup>3</sup>/s) Apr. 14, 1974 (gage height, 32.6 ft or 9.936 m, from floodmark); minimum, 55 ft<sup>3</sup>/s (1.56 m<sup>3</sup>/s) Aug. 28-30, 1957.

Flood in April 1856 reached a stage of about 33 ft (10.1 m), and the flood in April 1900 reached a stage of 32 ft (9.8 m), from information by local residents.

REMARKS.--Records good. Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 2106 (corrected): 1950(M). WRD Miss. 1973: 1950(M).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY               | OCT     | NOV    | DEC    | JAN     | FEB    | MAR    | APR     | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------------------|---------|--------|--------|---------|--------|--------|---------|--------|--------|--------|--------|--------|
| 1                 | 517     | 220    | 711    | 5,330   | 2,490  | 914    | 1,330   | 1,190  | 573    | 396    | 415    | 1,070  |
| 2                 | 461     | 219    | 458    | 4,520   | 1,990  | 875    | 4,130   | 1,130  | 1,560  | 375    | 344    | 824    |
| 3                 | 413     | 215    | 377    | 3,780   | 1,650  | 832    | 4,160   | 1,090  | 1,210  | 357    | 466    | 1,460  |
| 4                 | 319     | 211    | 504    | 3,250   | 1,340  | 796    | 4,560   | 1,080  | 978    | 347    | 344    | 940    |
| 5                 | 273     | 443    | 1,110  | 3,220   | 1,100  | 756    | 3,870   | 1,360  | 898    | 340    | 295    | 595    |
| 6                 | 244     | 552    | 1,180  | 3,110   | 1,010  | 717    | 2,250   | 1,450  | 3,090  | 393    | 271    | 458    |
| 7                 | 224     | 491    | 954    | 3,510   | 1,530  | 699    | 1,220   | 1,220  | 4,080  | 386    | 283    | 396    |
| 8                 | 212     | 382    | 549    | 3,520   | 2,360  | 663    | 914     | 1,060  | 3,240  | 371    | 482    | 3,040  |
| 9                 | 206     | 359    | 414    | 3,670   | 2,790  | 641    | 777     | 964    | 2,210  | 337    | 396    | 3,960  |
| 10                | 251     | 333    | 363    | 3,430   | 2,150  | 624    | 667     | 898    | 1,680  | 317    | 357    | 2,970  |
| 11                | 362     | 295    | 324    | 2,800   | 1,360  | 620    | 601     | 1,140  | 1,160  | 304    | 295    | 1,090  |
| 12                | 310     | 269    | 315    | 4,280   | 978    | 1,500  | 2,630   | 2,460  | 852    | 292    | 260    | 1,320  |
| 13                | 256     | 245    | 304    | 4,400   | 832    | 2,270  | 32,000  | 2,260  | 783    | 277    | 361    | 820    |
| 14                | 227     | 235    | 295    | 4,030   | 764    | 1,820  | 51,000  | 1,650  | 801    | 271    | 912    | 622    |
| 15                | 217     | 224    | 288    | 3,840   | 964    | 1,440  | 44,100  | 1,170  | 654    | 277    | 512    | 503    |
| 16                | 236     | 219    | 301    | 3,850   | 5,670  | 1,000  | 25,600  | 1,200  | 595    | 327    | 344    | 434    |
| 17                | 334     | 212    | 304    | 4,000   | 7,000  | 792    | 11,000  | 964    | 538    | 347    | 411    | 378    |
| 18                | 384     | 206    | 296    | 3,020   | 9,860  | 677    | 5,050   | 847    | 507    | 320    | 533    | 333    |
| 19                | 331     | 202    | 284    | 1,510   | 6,240  | 652    | 3,750   | 778    | 482    | 286    | 797    | 298    |
| 20                | 262     | 201    | 1,610  | 3,960   | 4,260  | 808    | 2,770   | 723    | 462    | 274    | 631    | 271    |
| 21                | 232     | 416    | 2,540  | 6,380   | 3,610  | 1,390  | 2,230   | 691    | 438    | 311    | 458    | 251    |
| 22                | 216     | 724    | 2,670  | 8,200   | 3,220  | 1,580  | 1,990   | 1,130  | 415    | 283    | 347    | 237    |
| 23                | 206     | 946    | 1,490  | 7,610   | 2,980  | 1,280  | 2,800   | 1,470  | 1,140  | 327    | 295    | 217    |
| 24                | 197     | 765    | 1,120  | 5,650   | 2,800  | 968    | 3,240   | 1,020  | 2,700  | 1,270  | 268    | 200    |
| 25                | 191     | 481    | 6,060  | 6,600   | 2,080  | 912    | 3,170   | 856    | 1,510  | 843    | 248    | 192    |
| 26                | 186     | 425    | 12,400 | 6,520   | 1,490  | 1,100  | 2,160   | 751    | 964    | 1,130  | 237    | 262    |
| 27                | 183     | 425    | 12,900 | 7,310   | 1,160  | 2,940  | 1,650   | 806    | 672    | 949    | 240    | 386    |
| 28                | 181     | 1,290  | 14,100 | 6,700   | 1,000  | 3,580  | 1,450   | 815    | 542    | 595    | 466    | 386    |
| 29                | 183     | 1,060  | 10,200 | 6,310   | -----  | 3,230  | 1,330   | 737    | 474    | 454    | 1,040  | 1,260  |
| 30                | 186     | 1,180  | 4,070  | 5,320   | -----  | 2,650  | 1,260   | 663    | 427    | 389    | 700    | 1,290  |
| 31                | 198     | -----  | 3,690  | 4,160   | -----  | 2,070  | -----   | 613    | -----  | 533    | 1,380  | -----  |
| TOTAL             | 8,198   | 13,449 | 82,985 | 144,270 | 74,684 | 40,846 | 223,659 | 34,186 | 35,635 | 13,678 | 14,388 | 27,343 |
| MEAN              | 266     | 442    | 2,677  | 4,654   | 2,667  | 1,319  | 7,455   | 1,103  | 1,188  | 441    | 464    | 912    |
| MAX               | 517     | 1,290  | 14,100 | 8,200   | 9,860  | 3,580  | 51,000  | 2,460  | 4,080  | 1,270  | 1,380  | 3,960  |
| MIN               | 181     | 201    | 288    | 1,510   | 764    | 620    | 601     | 613    | 415    | 271    | 237    | 192    |
| CFSM              | .35     | .60    | 3.56   | 5.19    | 3.55   | 1.75   | 9.91    | 1.47   | 1.58   | .69    | .62    | 1.21   |
| IN                | .41     | .67    | 4.11   | 7.14    | 3.69   | 2.02   | 11.06   | 1.69   | 1.76   | .68    | .71    | 1.35   |
| CAL YR 1973 TOTAL | 749,134 | MEAN   | 2,052  | MAX     | 20,000 | MIN    | 181     | CFSM   | 2.73   | IN     | 37.06  |        |
| WTR YR 1974 TOTAL | 713,391 | MEAN   | 1,954  | MAX     | 51,000 | MIN    | 181     | CFSM   | 2.60   | IN     | 35.29  |        |

## PEAK DISCHARGE (BASE, 8,000 CFS)

Note.-- No gage-height record Apr. 13 at 1600 to Apr. 14 at 2400.

| DATE  | TIME | G.HT. | DISCHARGE | DATE  | TIME | G.HT. | DISCHARGE |
|-------|------|-------|-----------|-------|------|-------|-----------|
| 12-28 | 1400 | 21.34 | 14,300    | 02-18 | 1500 | 18.27 | 10,300    |
| 01-22 | 2000 | 17.15 | 8,500     | 04-14 | a    | +32.6 | 54,200    |

† From floodmark.  
a About 2100.

02472500 Bowie Creek near Hattiesburg, Miss.

LOCATION.--Lat 31°25'32", long 89°24'53", in NW¼SW¼ sec.4, T.5 N., R.14 W., St. Stephens meridian, Forrest County, on left bank 25 ft (8 m) downstream from upstream bridge of dual bridges on U.S. Highway 49, 1 mile (2 km) upstream from Okatoma Creek, 2 miles (3 km) southwest of Lux, and 10 miles (16 km) northwest of Hattiesburg.

DRAINAGE AREA.--304 mi<sup>2</sup> (787 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 160.04 ft (48.780 m) above mean sea level (levels by Corps of Engineers). Prior to Dec. 8, 1938, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--36 years, 439 ft<sup>3</sup>/s (12.43 m<sup>3</sup>/s), 19.61 in/yr (498 mm/yr).

EXTREMES.--Current year: Maximum discharge, 45,500 ft<sup>3</sup>/s (1,290 m<sup>3</sup>/s) Apr. 14 (gage height, 28.18 ft or 8.589 m, from floodmark); minimum, 156 ft<sup>3</sup>/s (4.42 m<sup>3</sup>/s) Oct. 10; minimum gage height, 2.82 ft (0.860 m) Oct. 23.

Period of record: Maximum discharge, 45,500 ft<sup>3</sup>/s (1,290 m<sup>3</sup>/s) Apr. 14, 1974 (gage height, 28.18 ft or 8.589 m, from floodmark); minimum, 83 ft<sup>3</sup>/s (2.35 m<sup>3</sup>/s) Aug. 29, 1957; minimum gage height, 2.37 ft (0.722 m) Sept. 16, 17, 1972.

REMARKS.--Records good. Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1906: 1943(M).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT   | NOV   | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN   | JUL   | AUG   | SEP    |
|-------|-------|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|--------|
| 1     | 389   | 199   | 327    | 1,630  | 798    | 350    | 421    | 389    | 315   | 236   | 254   | 279    |
| 2     | 391   | 205   | 270    | 1,770  | 726    | 356    | 1,080  | 403    | 417   | 234   | 251   | 309    |
| 3     | 342   | 192   | 242    | 1,170  | 813    | 350    | 1,220  | 434    | 463   | 235   | 309   | 541    |
| 4     | 319   | 184   | 315    | 1,440  | 542    | 344    | 1,050  | 389    | 357   | 240   | 336   | 771    |
| 5     | 220   | 454   | 455    | 1,310  | 530    | 338    | 930    | 571    | 331   | 244   | 266   | 459    |
| 6     | 189   | 562   | 372    | 981    | 473    | 332    | 615    | 821    | 477   | 286   | 248   | 306    |
| 7     | 173   | 420   | 289    | 800    | 1,550  | 326    | 432    | 497    | 441   | 360   | 275   | 320    |
| 8     | 164   | 297   | 254    | 749    | 1,990  | 324    | 392    | 396    | 427   | 304   | 269   | 1,300  |
| 9     | 159   | 242   | 234    | 656    | 944    | 316    | 370    | 361    | 335   | 267   | 267   | 2,100  |
| 10    | 160   | 229   | 226    | 594    | 511    | 311    | 344    | 346    | 306   | 250   | 254   | 1,870  |
| 11    | 199   | 232   | 219    | 810    | 513    | 316    | 324    | 649    | 496   | 241   | 241   | 1,050  |
| 12    | 210   | 231   | 215    | 1,410  | 466    | 950    | 513    | 1,150  | 505   | 235   | 230   | 521    |
| 13    | 177   | 204   | 213    | 1,080  | 436    | 1,100  | 6,670  | 1,020  | 334   | 231   | 225   | 375    |
| 14    | 167   | 194   | 212    | 798    | 419    | 768    | 33,500 | 595    | 300   | 228   | 226   | 324    |
| 15    | 164   | 190   | 222    | 675    | 471    | 534    | 25,700 | 423    | 303   | 232   | 225   | 299    |
| 16    | 182   | 188   | 227    | 532    | 1,340  | 417    | 7,950  | 354    | 291   | 317   | 226   | 285    |
| 17    | 245   | 186   | 215    | 453    | 1,170  | 374    | 3,070  | 340    | 283   | 252   | 227   | 272    |
| 18    | 250   | 185   | 208    | 433    | 813    | 348    | 1,250  | 326    | 272   | 250   | 261   | 259    |
| 19    | 212   | 182   | 209    | 409    | 700    | 336    | 854    | 314    | 265   | 234   | 282   | 248    |
| 20    | 184   | 183   | 606    | 1,420  | 586    | 340    | 690    | 306    | 268   | 229   | 264   | 238    |
| 21    | 172   | 368   | 572    | 2,270  | 530    | 372    | 505    | 303    | 261   | 248   | 254   | 232    |
| 22    | 166   | 428   | 504    | 2,450  | 511    | 423    | 550    | 781    | 254   | 276   | 234   | 226    |
| 23    | 165   | 373   | 400    | 1,900  | 568    | 398    | 513    | 3,620  | 277   | 241   | 220   | 220    |
| 24    | 171   | 323   | 308    | 1,650  | 482    | 360    | 537    | 1,810  | 299   | 252   | 215   | 216    |
| 25    | 170   | 270   | 4,380  | 3,110  | 429    | 368    | 551    | 655    | 302   | 264   | 212   | 215    |
| 26    | 169   | 249   | 13,500 | 2,970  | 392    | 394    | 488    | 472    | 275   | 277   | 223   | 229    |
| 27    | 168   | 251   | 9,980  | 2,270  | 374    | 1,860  | 448    | 423    | 254   | 314   | 234   | 271    |
| 28    | 164   | 533   | 4,420  | 1,780  | 365    | 2,290  | 425    | 399    | 246   | 655   | 243   | 280    |
| 29    | 167   | 548   | 1,740  | 1,730  | -----  | 1,410  | 409    | 353    | 241   | 561   | 236   | 253    |
| 30    | 167   | 511   | 936    | 1,420  | -----  | 741    | 400    | 338    | 238   | 299   | 247   | 247    |
| 31    | 141   | ----- | 741    | 1,010  | -----  | 508    | -----  | 322    | ----- | 275   | 237   | -----  |
| TOTAL | 6,360 | 8,823 | 43,011 | 41,690 | 19,473 | 17,954 | 92,513 | 19,600 | 9,834 | 8,767 | 7,691 | 14,515 |
| MEAN  | 205   | 294   | 1,387  | 1,345  | 714    | 579    | 3,084  | 632    | 328   | 283   | 248   | 484    |
| MAX   | 391   | 562   | 13,500 | 3,110  | 1,990  | 2,290  | 33,500 | 3,620  | 505   | 655   | 336   | 2,100  |
| MIN   | 159   | 182   | 208    | 409    | 365    | 311    | 324    | 303    | 238   | 228   | 212   | 215    |
| CFSM  | .67   | .97   | 4.56   | 4.42   | 2.35   | 1.90   | 10.1   | 2.08   | 1.08  | .93   | .82   | 1.59   |
| IN.   | .78   | 1.08  | 5.26   | 5.10   | 2.45   | 2.20   | 11.32  | 2.40   | 1.20  | 1.07  | .94   | 1.78   |

CAL YR 1973 TOTAL 255,912 MEAN 701 MAX 13,500

MIN 149

CFSM 2.31

IN 31.32

WTR YR 1974 TOTAL 290,761 MEAN 797 MAX 33,500

MIN 159

CFSM 2.52

IN 35.58

## PEAK DISCHARGE (BASE, 4,000 CFS)

NOTE: No gage-height record  
Apr. 14-16.

| DATE  | TIME    | G.HT.  | DISCHARGE | DATE  | TIME | G.HT. | DISCHARGE |
|-------|---------|--------|-----------|-------|------|-------|-----------|
| 12-26 | 1900    | 22.53  | 15,300    | 05-23 | 1000 | 13.96 | 4,080     |
| 04-14 | Unknown | †28.18 | 45,500    |       |      |       |           |

† From floodmark

LOCATION.--Lat 31°20'33", long 89°16'46", in SW¼NW¼ sec.2, T.4 N., R.13 W., St. Stephens meridian, Forrest County, on left bank at downstream side of bridge on U.S. Highway 11, at eastern city limits of Hattiesburg, 300 ft (90 m) downstream from Bowie Creek, 3,000 ft (900 m) upstream from New Orleans and Northeastern Railroad bridge, and at mile 71.8 (115.5 km).

PERIOD OF RECORD.--September 1938 to current year. Gage-height records collected in the same vicinity since 1904 are contained in reports of National Weather Service.

AVERAGE DISCHARGE.--36 years, 2,588 ft<sup>3</sup>/s (73.29 m<sup>3</sup>/s), 19.97 in/yr (507 mm/yr).

EXTREMES.--Current year: Maximum discharge, 121,000 ft<sup>3</sup>/s (3,430 m<sup>3</sup>/s) Apr. 15 (gage height, 34.03 ft or 10.372 m); minimum, 780 ft<sup>3</sup>/s (22.1 m<sup>3</sup>/s) July 14 (gage height, 3.90 ft or 1.189 m).  
Period of record: Maximum discharge, 121,000 ft<sup>3</sup>/s (3,430 m<sup>3</sup>/s) Apr. 15, 1974 (gage height, 34.03 ft or 10.372 m); minimum, 318 ft<sup>3</sup>/s (9.01 m<sup>3</sup>/s) Oct. 22, 1963; minimum gage height, 3.38 ft (1.030 m) Sept. 17, 18, 1972.

REMARKS. -- Records good.

| DAY     | OCT   | NOV   | DEC    | JAN    | FEB    | MAR    | APR     | MAY   | JUN   | JUL   | AUG   | SEP    |
|---------|-------|-------|--------|--------|--------|--------|---------|-------|-------|-------|-------|--------|
| 1       | 1,740 | 920   | 2,610  | 10,200 | 7,370  | 2,360  | 3,460   | 2,110 | 1,380 | 976   | 1,140 | 2,400  |
| 2       | 2,380 | 990   | 1,910  | 11,200 | 5,540  | 2,260  | 5,060   | 2,030 | 1,690 | 934   | 1,030 | 2,170  |
| 3       | 1,940 | 888   | 1,570  | 8,830  | 5,290  | 2,200  | 8,590   | 2,090 | 2,360 | 906   | 1,050 | 2,580  |
| 4       | 1,810 | 825   | 1,730  | 9,090  | 4,380  | 2,130  | 8,180   | 1,960 | 2,090 | 906   | 1,470 | 3,440  |
| 5       | 1,300 | 1,580 | 2,600  | 8,260  | 3,560  | 2,070  | 7,890   | 2,260 | 1,750 | 941   | 1,200 | 2,640  |
| 6       | 1,070 | 2,640 | 2,830  | 7,160  | 3,070  | 2,010  | 6,400   | 3,350 | 2,200 | 1,030 | 983   | 1,650  |
| 7       | 961   | 2,380 | 2,500  | 6,520  | 6,400  | 1,950  | 3,700   | 2,710 | 5,130 | 1,130 | 1,090 | 1,700  |
| 8       | 916   | 2,050 | 2,050  | 6,830  | 7,980  | 1,870  | 2,680   | 2,140 | 5,560 | 1,140 | 1,210 | 6,470  |
| 9       | 904   | 1,720 | 1,630  | 6,380  | 6,320  | 1,800  | 2,350   | 1,890 | 4,190 | 1,010 | 1,200 | 9,990  |
| 10      | 904   | 1,620 | 1,460  | 6,300  | 5,180  | 1,760  | 2,110   | 1,750 | 2,910 | 927   | 1,070 | 10,100 |
| 11      | 1,030 | 1,700 | 1,360  | 6,340  | 4,060  | 1,740  | 1,930   | 2,960 | 2,630 | 871   | 969   | 7,160  |
| 12      | 1,110 | 1,490 | 1,310  | 8,400  | 3,160  | 2,710  | 2,160   | 7,290 | 2,170 | 836   | 864   | 4,800  |
| 13      | 1,090 | 1,370 | 1,280  | 8,230  | 2,730  | 5,230  | 19,100  | 5,940 | 1,660 | 808   | 808   | 3,230  |
| 14      | 930   | 1,280 | 1,260  | 7,460  | 2,540  | 4,810  | 39,000  | 4,270 | 1,660 | 794   | 1,420 | 2,310  |
| 15      | 893   | 1,240 | 1,280  | 6,660  | 2,580  | 3,820  | 110,000 | 2,940 | 2,400 | 913   | 2,170 | 1,860  |
| 16      | 880   | 1,220 | 1,290  | 6,290  | 6,010  | 2,870  | 85,100  | 2,170 | 1,790 | 1,200 | 1,420 | 1,660  |
| 17      | 1,120 | 1,190 | 1,260  | 6,060  | 9,070  | 2,260  | 51,400  | 2,120 | 1,400 | 1,250 | 1,260 | 1,540  |
| 18      | 1,320 | 1,170 | 1,240  | 5,860  | 9,300  | 2,020  | 30,100  | 2,010 | 1,260 | 1,020 | 1,750 | 1,440  |
| 19      | 1,250 | 1,150 | 1,240  | 4,620  | 10,800 | 1,890  | 16,100  | 1,760 | 1,190 | 906   | 2,030 | 1,350  |
| 20      | 1,080 | 1,130 | 2,630  | 6,420  | 9,780  | 1,880  | 6,640   | 1,570 | 1,140 | 843   | 1,810 | 1,300  |
| 21      | 922   | 1,350 | 4,440  | 9,840  | 6,710  | 2,360  | 4,520   | 1,490 | 1,090 | 878   | 1,420 | 1,250  |
| 22      | 843   | 2,410 | 4,520  | 11,400 | 5,860  | 3,140  | 3,730   | 1,810 | 1,050 | 997   | 1,120 | 1,200  |
| 23      | 804   | 2,470 | 4,100  | 12,300 | 5,360  | 3,060  | 3,760   | 8,640 | 1,130 | 906   | 941   | 1,140  |
| 24      | 796   | 2,400 | 3,370  | 12,700 | 4,930  | 2,600  | 4,560   | 7,630 | 2,190 | 1,050 | 857   | 1,120  |
| 25      | 790   | 2,080 | 10,600 | 13,900 | 4,410  | 2,280  | 4,620   | 3,310 | 3,080 | 1,600 | 808   | 1,090  |
| 26      | 762   | 1,690 | 31,500 | 14,700 | 3,420  | 2,760  | 4,150   | 2,140 | 2,070 | 1,520 | 808   | 1,140  |
| 27      | 751   | 1,590 | 40,100 | 13,700 | 2,830  | 7,440  | 3,110   | 1,830 | 1,490 | 1,980 | 864   | 1,330  |
| 28      | 746   | 2,520 | 34,300 | 12,600 | 2,520  | 10,600 | 2,600   | 1,780 | 1,220 | 2,500 | 976   | 1,490  |
| 29      | 740   | 3,620 | 24,500 | 12,700 | -----  | 8,410  | 2,360   | 1,670 | 1,100 | 2,100 | 1,430 | 1,420  |
| 30      | 735   | 3,190 | 18,100 | 11,100 | -----  | 6,170  | 2,220   | 1,520 | 1,020 | 1,290 | 1,820 | 2,120  |
| 31      | 795   | ----- | 10,500 | 9,090  | -----  | 4,580  | -----   | 1,410 | ----- | 1,180 | 1,930 | -----  |
| TOTAL</ |       |       |        |        |        |        |         |       |       |       |       |        |

## PASCAGOULA RIVER BASIN

49

02473500 Tallahala Creek at Laurel, Miss.

LOCATION.--Lat 31°40'50", long 89°06'55", in NE¼NE¼ sec.8, T.8 N., R.11 W., St. Stephens meridian, Jones County, on right bank at downstream side of bridge on State Highway 15, 0.5 mile (0.8 km) upstream from Gulf, Mobile and Ohio Railroad bridge, 0.5 mile (0.8 km) southeast of city limits of Laurel, and 6 miles (10 km) upstream from Tallahoma Creek.

DRAINAGE AREA.--233 mi<sup>2</sup> (603 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 201.37 ft (61.378 m) above mean sea level (Mississippi State Highway Department bench mark). Prior to Dec. 14, 1938, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--36 years, 335 ft<sup>3</sup>/s (9.487 m<sup>3</sup>/s), 19.52 in/yr (496 mm/yr).

EXTREMES.--Current year: Maximum discharge, 23,300 ft<sup>3</sup>/s (660 m<sup>3</sup>/s) Apr. 14 (gage height, 23.28 ft or 7.096 m, from floodmark); minimum, 28 ft<sup>3</sup>/s (0.793 m<sup>3</sup>/s) Oct. 26 (gage height, 2.38 ft or 0.725 m).

Period of record: Maximum discharge, 23,300 ft<sup>3</sup>/s (660 m<sup>3</sup>/s) Apr. 14, 1974 (gage height, 23.28 ft or 7.096 m, from floodmark); minimum, 1.8 ft<sup>3</sup>/s (0.051 m<sup>3</sup>/s) Nov. 3, 1952, Oct. 31, Nov. 1, 1963; minimum gage height, 1.21 ft (0.369 m) Oct. 31, Nov. 1, 1963.

Maximum stage known since at least 1880, about 26 ft (7.9 m) Dec. 9, 1919. Flood in April 1900 reached a stage of about 24 ft (7.3 m), from information by local residents. Flood in April 1938 reached a stage of 20.7 ft (6.31 m) from information by Mississippi State Highway Department.

REMARKS.--Records good except those for period of no gage-height record, which are fair.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT   | NOV   | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL   | AUG   | SEP   |
|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 1     | 314   | 40    | 240    | 2,220  | 1,400  | 259    | 996    | 215    | 87     | 58    | 69    | 118   |
| 2     | 241   | 50    | 170    | 2,000  | 1,100  | 245    | 900    | 204    | 86     | 54    | 179   | 132   |
| 3     | 134   | 44    | 120    | 2,230  | 870    | 233    | 921    | 194    | 104    | 50    | 110   | 149   |
| 4     | 90    | 48    | 160    | 2,230  | 680    | 222    | 1,130  | 189    | 105    | 46    | 64    | 285   |
| 5     | 75    | 102   | 280    | 2,150  | 550    | 210    | 1,330  | 269    | 92     | 44    | 87    | 305   |
| 6     | 70    | 110   | 270    | 1,990  | 450    | 201    | 1,660  | 637    | 818    | 42    | 98    | 170   |
| 7     | 56    | 101   | 247    | 1,710  | 940    | 192    | 1,580  | 500    | 1,240  | 43    | 66    | 304   |
| 8     | 48    | 81    | 163    | 1,460  | 830    | 182    | 736    | 292    | 1,140  | 44    | 65    | 956   |
| 9     | 43    | 63    | 120    | 1,290  | 680    | 173    | 352    | 214    | 1,930  | 50    | 48    | 1,060 |
| 10    | 40    | 100   | 103    | 1,140  | 580    | 164    | 288    | 182    | 2,200  | 47    | 61    | 912   |
| 11    | 40    | 119   | 92     | 1,180  | 500    | 171    | 244    | 592    | 1,320  | 42    | 43    | 894   |
| 12    | 39    | 78    | 83     | 1,100  | 400    | 350    | 399    | 1,380  | 314    | 40    | 39    | 966   |
| 13    | 38    | 49    | 75     | 1,000  | 320    | 577    | 2,800  | 1,300  | 197    | 37    | 94    | 585   |
| 14    | 37    | 41    | 74     | 900    | 300    | 577    | 18,400 | 1,100  | 186    | 36    | 113   | 206   |
| 15    | 40    | 39    | 78     | 840    | 310    | 556    | 12,200 | 806    | 192    | 53    | 85    | 156   |
| 16    | 55    | 37    | 84     | 810    | 800    | 328    | 5,730  | 281    | 206    | 40    | 116   | 126   |
| 17    | 60    | 35    | 68     | 800    | 1,500  | 244    | 3,530  | 227    | 147    | 35    | 218   | 107   |
| 18    | 69    | 33    | 69     | 790    | 1,210  | 207    | 2,600  | 197    | 115    | 33    | 175   | 95    |
| 19    | 55    | 33    | 72     | 780    | 1,420  | 197    | 2,020  | 165    | 101    | 44    | 249   | 84    |
| 20    | 52    | 32    | 206    | 1,100  | 1,960  | 239    | 1,230  | 148    | 91     | 41    | 322   | 75    |
| 21    | 42    | 107   | 389    | 1,200  | 1,750  | 363    | 524    | 125    | 82     | 41    | 315   | 68    |
| 22    | 36    | 136   | 503    | 910    | 1,150  | 518    | 412    | 279    | 76     | 35    | 165   | 62    |
| 23    | 33    | 206   | 567    | 820    | 869    | 613    | 430    | 752    | 79     | 33    | 91    | 55    |
| 24    | 33    | 172   | 350    | 1,470  | 733    | 678    | 539    | 884    | 93     | 75    | 62    | 49    |
| 25    | 30    | 108   | 2,150  | 1,550  | 696    | 528    | 630    | 690    | 202    | 55    | 49    | 48    |
| 26    | 31    | 84    | 6,820  | 1,580  | 437    | 300    | 559    | 276    | 212    | 74    | 49    | 52    |
| 27    | 33    | 89    | 13,400 | 1,600  | 314    | 661    | 346    | 191    | 122    | 81    | 54    | 63    |
| 28    | 31    | 206   | 9,960  | 1,640  | 277    | 1,060  | 285    | 170    | 86     | 52    | 48    | 106   |
| 29    | 29    | 430   | 4,880  | 1,700  | -----  | 1,090  | 254    | 143    | 72     | 46    | 41    | 167   |
| 30    | 30    | 300   | 3,060  | 1,600  | -----  | 1,070  | 231    | 114    | 61     | 62    | 67    | 241   |
| 31    | 41    | ----- | 2,340  | 1,500  | -----  | 1,110  | -----  | 94     | -----  | 64    | 110   | ----- |
| TOTAL | 1,965 | 3,073 | 47,193 | 43,290 | 23,026 | 13,518 | 63,256 | 12,810 | 11,756 | 1,497 | 3,352 | 8,596 |
| MEAN  | 63.4  | 102   | 1,522  | 1,356  | 822    | 436    | 2,109  | 413    | 392    | 48.3  | 108   | 287   |
| MAX   | 314   | 430   | 13,400 | 2,230  | 1,960  | 1,110  | 18,400 | 1,380  | 2,200  | 81    | 322   | 1,060 |
| MIN   | 29    | 32    | 68     | 780    | 277    | 164    | 231    | 94     | 61     | 33    | 39    | 48    |
| CFSM  | .27   | .44   | 6.53   | 5.99   | 3.53   | 1.87   | 9.05   | 1.77   | 1.68   | .21   | .46   | 1.23  |
| IN.   | .31   | .49   | 7.53   | 6.91   | 3.68   | 2.16   | 10.10  | 2.05   | 1.88   | .24   | .54   | 1.37  |

CAL YR 1973 TOTAL 228,319 MEAN 626 MAX 13,400 MIN 29 CFSM 2.69 IN 36.45  
WTR YR 1974 TOTAL 233,332 MEAN 639 MAX 18,400 MIN 29 CFSM 2.74 IN 37.25

## PEAK DISCHARGE (BASE, 3,000 CFS)

| DATE  | TIME | G.HT. | DISCHARGE | DATE  | TIME    | G.HT.  | DISCHARGE |
|-------|------|-------|-----------|-------|---------|--------|-----------|
| 12-27 | 1530 | 21.18 | 14,700    | 04-14 | Unknown | +23.28 | 23,300    |

†From floodmark.

NOTE.--No gage-height record Jan. 12 to Feb. 19, Apr. 14.



## PASCAGOULA RIVER BASIN

02474500 Tallahala Creek near Runnelstown, Miss.

LOCATION.--Lat 31°19'57", long 89°06'46", in SE¼SE¼ sec.5, T.4 N., R.11 W., St. Stephens meridian, Perry County, on right bank at downstream side of highway bridge between Sunrise and Runnelstown, 3 miles (5 km) south of Runnelstown, and 9 miles (14 km) upstream from mouth.

DRAINAGE AREA.--612 mi<sup>2</sup> (1,585 km<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 104.58 ft (31.876 m) above mean sea level. Prior to Oct. 1, 1971, at datum 5.00 ft (1.524 m) higher.

AVERAGE DISCHARGE.--35 years, 912 ft<sup>3</sup>/s (25.83 m<sup>3</sup>/s), 20.24 in/yr (514 mm/yr).

EXTREMES.--Current year: Maximum discharge, 27,900 ft<sup>3</sup>/s (790 m<sup>3</sup>/s) Apr. 16 (gage height, 28.44 ft or 8.669 m); minimum, 135 ft<sup>3</sup>/s (3.82 m<sup>3</sup>/s) July 20; minimum gage height, 5.78 ft (1.762 m) Oct. 30-31.

Period of record: Maximum discharge, 32,800 ft<sup>3</sup>/s (929 m<sup>3</sup>/s) Feb. 24, 1961 (gage height, 29.84 ft or 9.095 m in gage well, 30.07 ft or 9.165 m from outside gage, present datum); minimum, 29 ft<sup>3</sup>/s (0.82 m<sup>3</sup>/s) Oct. 31, 1963; minimum gage height, 4.89 ft (1.490 m), present datum, Sept. 15-19, 21, 1972.

Maximum stage since about 1865, 30½ ft (9¼ m) in April 1900; flood in December 1919 reached a stage of 26½ ft (8 m), and flood in about 1865 reached a stage between 26½ ft (8 m) and 30½ ft (9¼ m), all from information by local residents, at datum 5.00 ft (1.524 m) higher.

REMARKS.--Records good. Records of chemical analyses for the current year are published in Part 2 of this report.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY         | OCT           | NOV        | DEC        | JAN     | FEB       | MAR      | APR     | MAY    | JUN    | JUL   | AUG    | SEP    |
|-------------|---------------|------------|------------|---------|-----------|----------|---------|--------|--------|-------|--------|--------|
| 1           | 810           | 175        | 1,050      | 1,040   | 4,040     | 850      | 2,320   | 548    | 428    | 246   | 219    | 1,370  |
| 2           | 990           | 192        | 718        | 5,000   | 3,510     | 736      | 2,710   | 646    | 748    | 229   | 231    | 737    |
| 3           | 878           | 188        | 463        | 4,300   | 2,240     | 738      | 3,900   | 633    | 502    | 217   | 361    | 1,240  |
| 4           | 501           | 192        | 614        | 3,900   | 2,100     | 698      | 3,270   | 595    | 469    | 198   | 555    | 1,100  |
| 5           | 328           | 393        | 1,140      | 3,600   | 1,550     | 653      | 2,950   | 698    | 748    | 135   | 383    | 919    |
| 6           | 262           | 718        | 1,070      | 3,400   | 1,300     | 628      | 2,730   | 729    | 961    | 190   | 258    | 748    |
| 7           | 233           | 492        | 850        | 3,200   | 2,970     | 594      | 2,820   | 1,330  | 2,740  | 197   | 274    | 931    |
| 8           | 213           | 377        | 718        | 3,000   | 2,500     | 567      | 2,920   | 1,310  | 2,950  | 176   | 288    | 3,170  |
| 9           | 197           | 308        | 528        | 2,900   | 2,160     | 537      | 2,130   | 885    | 2,820  | 174   | 291    | 4,090  |
| 10          | 204           | 560        | 401        | 2,970   | 1,880     | 513      | 1,120   | 652    | 2,970  | 158   | 251    | 3,870  |
| 11          | 196           | 756        | 344        | 2,900   | 1,590     | 495      | 854     | 1,690  | 3,490  | 154   | 207    | 3,140  |
| 12          | 181           | 360        | 311        | 3,540   | 1,230     | 770      | 790     | 5,450  | 3,480  | 156   | 193    | 2,330  |
| 13          | 173           | 262        | 294        | 3,240   | 1,030     | 1,550    | 5,590   | 4,750  | 1,420  | 152   | 168    | 1,800  |
| 14          | 165           | 230        | 280        | 2,870   | 930       | 1,700    | 8,290   | 3,980  | 774    | 152   | 338    | 1,210  |
| 15          | 162           | 213        | 292        | 2,630   | 958       | 1,530    | 12,300  | 3,220  | 568    | 145   | 858    | 770    |
| 16          | 188           | 209        | 317        | 2,570   | 2,190     | 1,390    | 26,400  | 2,300  | 575    | 156   | 490    | 531    |
| 17          | 537           | 214        | 276        | 2,640   | 2,820     | 974      | 19,300  | 1,130  | 723    | 241   | 518    | 435    |
| 18          | 452           | 206        | 259        | 2,660   | 2,540     | 722      | 12,300  | 895    | 544    | 158   | 372    | 375    |
| 19          | 308           | 189        | 264        | 2,480   | 2,570     | 518      | 8,590   | 821    | 428    | 143   | 912    | 330    |
| 20          | 251           | 180        | 1,090      | 3,450   | 2,740     | 521      | 6,070   | 672    | 378    | 137   | 1,070  | 288    |
| 21          | 216           | 284        | 1,390      | 3,600   | 3,030     | 854      | 4,110   | 572    | 341    | 141   | 704    | 258    |
| 22          | 196           | 540        | 1,320      | 2,850   | 3,740     | 1,140    | 1,980   | 556    | 315    | 158   | 588    | 235    |
| 23          | 175           | 698        | 1,270      | 2,570   | 3,180     | 1,380    | 1,460   | 2,650  | 310    | 147   | 403    | 217    |
| 24          | 165           | 591        | 1,290      | 3,180   | 2,400     | 1,480    | 1,380   | 3,270  | 364    | 154   | 285    | 270    |
| 25          | 158           | 483        | 2,150      | 4,040   | 1,850     | 1,460    | 1,380   | 2,590  | 397    | 231   | 231    | 191    |
| 26          | 153           | 380        | 8,040      | 4,400   | 1,510     | 1,390    | 1,390   | 1,850  | 575    | 214   | 205    | 200    |
| 27          | 149           | 333        | 12,600     | 4,470   | 1,220     | 2,910    | 1,250   | 955    | 562    | 217   | 191    | 238    |
| 28          | 149           | 778        | 16,100     | 4,550   | 962       | 3,530    | 955     | 591    | 463    | 550   | 210    | 235    |
| 29          | 146           | 1,170      | 18,200     | 4,910   | -----     | 3,230    | 307     | 598    | 333    | 420   | 299    | 277    |
| 30          | 146           | 1,240      | 15,400     | 4,880   | -----     | 2,540    | 735     | 521    | 277    | 246   | 350    | 356    |
| 31          | 153           | -----      | 11,300     | 4,500   | -----     | 2,550    | -----   | 454    | -----  | 202   | 720    | -----  |
| TOTAL       | 9,035         | 13,021     | 100,339    | 112,240 | 61,850    | 39,748   | 142,922 | 47,801 | 31,855 | 6,254 | 12,924 | 31,594 |
| MEAN        | 291           | 434        | 3,237      | 3,621   | 2,209     | 1,282    | 4,754   | 1,542  | 1,052  | 202   | 417    | 1,055  |
| MAX         | 990           | 1,240      | 18,200     | 7,040   | 4,040     | 3,530    | 26,400  | 5,450  | 3,490  | 550   | 1,070  | 4,090  |
| MIN         | 146           | 175        | 259        | 2,480   | 930       | 495      | 735     | 454    | 277    | 137   | 168    | 191    |
| CFSM        | .48           | .71        | 5.29       | 5.92    | 3.61      | 2.09     | 7.73    | 2.52   | 1.74   | .33   | .63    | 1.73   |
| IN.         | .55           | .79        | 6.10       | 6.82    | 3.75      | 2.42     | 8.59    | 2.91   | 1.94   | .39   | .79    | 1.93   |
| CAL YR 1973 | TOTAL 575,611 | MEAN 1,577 | MAX 18,200 | MIN 145 | CFSM 2.58 | IN 34.99 |         |        |        |       |        |        |
| WTR YR 1974 | TOTAL 609,683 | MEAN 1,670 | MAX 26,400 | MIN 137 | CFSM 2.73 | IN 37.05 |         |        |        |       |        |        |

02474600 Bogue Homo near Richton, Miss.

LOCATION.--Lat 31°24'12", long 89°01'18", in NE¼NW¼ sec.17, T.5 N., R.10 W., St. Stephens meridian, Perry County, at bridge on county highway, 0.5 mile (0.8 km) upstream from Linda Creek, 1.0 mile (1.6 km) downstream from Sweetwater Creek, 3.5 miles (5.6 km) upstream from State Highway 42, and 6.0 miles (9.7 km) northwest of Richton.

DRAINAGE AREA.--344 mi<sup>2</sup> (891 km<sup>2</sup>).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1944, 1955-56, 1965. October 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 117 ft or 35.7 m (from topographic map).

EXTREMES.--Current year: Maximum discharge, 21,900 ft<sup>3</sup>/s (620 m<sup>3</sup>/s) Dec. 28 (gage height, 27.63 ft or 8.422 m, from floodmark); minimum, 19 ft<sup>3</sup>/s (0.538 m<sup>3</sup>/s) part or all of each day July 13-18 (gage height, 3.79 ft or 1.155 m).

Period of record: Maximum discharge, 21,900 ft<sup>3</sup>/s (620 m<sup>3</sup>/s) Dec. 28, 1973 (gage height, 27.63 ft or 8.422 m, from floodmark); minimum, 7.0 ft<sup>3</sup>/s (0.20 m<sup>3</sup>/s) Sept. 16, 1972 (gage height, 3.60 ft or 1.097 m).

A flood prior to January 1941, reached a stage of 26½ ft (8 m) and the flood of Mar. 21, 1943, reached a stage of 25.7 ft (7.83 m) at site 3.5 miles (5.6 km) downstream at different datum (from information by Corps of Engineers). A discharge of 4.7 ft<sup>3</sup>/s (0.13 m<sup>3</sup>/s) was measured Oct. 16, 1963.

REMARKS.--Records good.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY         | OCT           | NOV      | DEC        | JAN    | FEB       | MAR      | APR    | MAY    | JUN    | JUL   | AUG   | SEP    |
|-------------|---------------|----------|------------|--------|-----------|----------|--------|--------|--------|-------|-------|--------|
| 1           | 65            | 35       | 494        | 2,170  | 1,960     | 374      | 1,530  | 144    | 122    | 45    | 66    | 680    |
| 2           | 262           | 29       | 338        | 1,540  | 1,590     | 352      | 1,500  | 126    | 178    | 41    | 75    | 1,400  |
| 3           | 416           | 31       | 255        | 1,040  | 1,350     | 355      | 1,400  | 118    | 170    | 35    | 83    | 2,130  |
| 4           | 460           | 29       | 491        | 1,060  | 1,020     | 352      | 2,130  | 132    | 190    | 32    | 500   | 2,210  |
| 5           | 279           | 86       | 890        | 1,450  | 760       | 340      | 2,700  | 642    | 187    | 29    | 337   | 1,440  |
| 6           | 154           | 88       | 772        | 1,600  | 665       | 331      | 2,040  | 428    | 175    | 27    | 340   | 936    |
| 7           | 100           | 135      | 634        | 1,420  | 1,780     | 322      | 1,580  | 390    | 1,070  | 26    | 280   | 931    |
| 8           | 76            | 110      | 510        | 1,220  | 2,370     | 295      | 1,220  | 510    | 1,550  | 25    | 150   | 3,870  |
| 9           | 66            | 99       | 345        | 1,080  | 1,760     | 182      | 810    | 561    | 2,310  | 24    | 153   | 4,310  |
| 10          | 59            | 121      | 291        | 981    | 1,300     | 140      | 465    | 328    | 2,100  | 22    | 240   | 4,300  |
| 11          | 52            | 286      | 280        | 1,100  | 1,200     | 136      | 349    | 295    | 1,540  | 24    | 240   | 3,230  |
| 12          | 47            | 369      | 272        | 1,660  | 1,040     | 254      | 393    | 1,580  | 1,150  | 22    | 166   | 2,370  |
| 13          | 42            | 290      | 265        | 1,650  | 748       | 575      | 3,480  | 2,220  | 486    | 20    | 111   | 1,760  |
| 14          | 38            | 205      | 257        | 1,260  | 510       | 597      | 8,220  | 2,170  | 246    | 20    | 166   | 1,290  |
| 15          | 36            | 174      | 309        | 1,080  | 507       | 575      | 11,600 | 2,440  | 564    | 20    | 445   | 700    |
| 16          | 43            | 176      | 304        | 999    | 1,140     | 638      | 9,690  | 2,080  | 680    | 19    | 438   | 316    |
| 17          | 61            | 176      | 259        | 859    | 1,350     | 579      | 5,180  | 1,490  | 435    | 21    | 346   | 218    |
| 18          | 85            | 186      | 234        | 740    | 1,230     | 364      | 2,850  | 684    | 202    | 29    | 304   | 166    |
| 19          | 132           | 185      | 200        | 740    | 1,480     | 268      | 2,000  | 274    | 195    | 60    | 422   | 138    |
| 20          | 144           | 183      | 904        | 1,600  | 1,870     | 254      | 1,450  | 274    | 136    | 47    | 634   | 122    |
| 21          | 133           | 263      | 1,090      | 2,390  | 1,810     | 442      | 850    | 182    | 132    | 37    | 546   | 102    |
| 22          | 120           | 426      | 806        | 2,200  | 2,290     | 653      | 462    | 166    | 102    | 28    | 402   | 84     |
| 23          | 113           | 483      | 636        | 1,750  | 2,070     | 638      | 370    | 684    | 86     | 33    | 226   | 73     |
| 24          | 103           | 422      | 432        | 2,200  | 1,290     | 619      | 435    | 1,270  | 79     | 48    | 120   | 79     |
| 25          | 64            | 292      | 967        | 2,810  | 990       | 604      | 469    | 1,150  | 79     | 33    | 84    | 79     |
| 26          | 43            | 221      | 3,520      | 3,300  | 805       | 561      | 472    | 1,010  | 86     | 55    | 69    | 75     |
| 27          | 35            | 221      | 13,800     | 3,220  | 593       | 1,920    | 409    | 859    | 78     | 51    | 100   | 76     |
| 28          | 32            | 569      | 19,900     | 2,900  | 438       | 2,500    | 271    | 510    | 67     | 43    | 130   | 140    |
| 29          | 28            | 713      | 8,840      | 3,060  | -----     | 2,090    | 200    | 229    | 60     | 65    | 159   | 109    |
| 30          | 25            | 600      | 4,560      | 3,080  | -----     | 1,630    | 168    | 159    | 52     | 150   | 238   | 128    |
| 31          | 32            | -----    | 2,810      | 2,510  | -----     | 1,640    | -----  | 130    | -----  | 142   | 367   | -----  |
| TOTAL       | 3,345         | 7,203    | 65,665     | 54,669 | 35,916    | 20,580   | 64,693 | 23,235 | 14,507 | 1,273 | 7,937 | 33,462 |
| MEAN        | 108           | 240      | 2,118      | 1,764  | 1,293     | 664      | 2,156  | 750    | 484    | 41.1  | 256   | 1,115  |
| MAX         | 460           | 713      | 19,900     | 3,300  | 2,370     | 2,500    | 11,600 | 2,440  | 2,310  | 150   | 634   | 4,310  |
| MIN         | 25            | 29       | 200        | 740    | 438       | 136      | 168    | 118    | 52     | 19    | 66    | 73     |
| CFSM        | .31           | .70      | 6.16       | 5.13   | 3.73      | 1.93     | 6.27   | 2.18   | 1.41   | .12   | .74   | 3.24   |
| IN.         | .36           | .78      | 7.10       | 5.91   | 3.88      | 2.23     | 7.00   | 2.51   | 1.57   | .14   | .86   | 3.62   |
| CAL YR 1973 | TOTAL 277,703 | MEAN 761 | MAX 19,900 | MIN 24 | CFSM 2.21 | IN 30.03 |        |        |        |       |       |        |
| WTR YR 1974 | TOTAL 332,485 | MEAN 911 | MAX 19,900 | MIN 19 | CFSM 2.65 | IN 35.95 |        |        |        |       |       |        |

## PASCAGOULA RIVER BASIN

02475000 Leaf River near McLain, Miss.

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 miles (1.9 km) east of McLain, 2 miles (3 km) downstream from Atkinson Creek, 6 miles (10 km) upstream from Big Oktibbee Creek, and 14.6 miles (23.5 km) upstream from confluence with Chickasawhay River.

DRAINAGE AREA.--3,510 mi<sup>2</sup> (9,090 km<sup>2</sup>), approximately.

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 (12.847 m) above mean sea level. Prior to Sept. 8, 1940, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--35 years, 5,244 ft<sup>3</sup>/s (148.5 m<sup>3</sup>/s), 20.29 in/yr (515 mm/yr).

EXTREMES.--Current year: Maximum discharge, 110,000 ft<sup>3</sup>/s (3,115 m<sup>3</sup>/s) Apr. 18 (gage height, 30.38 ft or 9.260 m); minimum, 1,190 ft<sup>3</sup>/s (33.7 m<sup>3</sup>/s) Oct. 30, 31 (gage height, 2.99 ft or 0.911 m).  
Period of record: Maximum discharge, 128,000 ft<sup>3</sup>/s (3,620 m<sup>3</sup>/s) Feb. 26, 1961 (gage height, 31.64 ft or 9.644 m); minimum, 478 ft<sup>3</sup>/s (13.5 m<sup>3</sup>/s) Oct. 22, 1963; minimum gage height, 1.78 ft (0.543 m) Oct. 28, 29; Nov. 1, 2, 1968.  
Flood in April 1900 reached a stage of about 32 ft (9.8 m), from information by local residents.

REMARKS.--Records good. Records of chemical analyses for the current year are published in Part 2 of this report.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT    | NOV    | DEC     | JAN     | FEB     | MAR     | APR     | MAY     | JUN     | JUL    | AUG    | SEP     |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|--------|--------|---------|
| 1     | 2,190  | 1,330  | 5,430   | 50,200  | 23,900  | 5,380   | 13,200  | 4,180   | 2,570   | 1,900  | 1,920  | 3,490   |
| 2     | 3,210  | 1,410  | 4,470   | 40,000  | 20,500  | 4,860   | 11,100  | 3,920   | 3,330   | 1,790  | 1,950  | 6,550   |
| 3     | 4,890  | 1,440  | 3,390   | 30,600  | 17,300  | 4,600   | 12,100  | 3,740   | 3,740   | 1,780  | 1,940  | 8,700   |
| 4     | 3,950  | 1,420  | 3,200   | 25,400  | 14,200  | 4,420   | 14,200  | 3,580   | 3,540   | 1,700  | 1,970  | 9,030   |
| 5     | 3,290  | 1,710  | 4,810   | 21,400  | 10,800  | 4,240   | 15,100  | 3,880   | 3,550   | 1,670  | 2,730  | 8,220   |
| 6     | 2,540  | 2,880  | 5,530   | 18,900  | 8,170   | 4,060   | 15,000  | 4,750   | 4,280   | 1,700  | 2,330  | 5,430   |
| 7     | 2,070  | 3,610  | 5,170   | 17,200  | 9,230   | 3,890   | 14,000  | 5,490   | 4,470   | 1,740  | 2,020  | 5,330   |
| 8     | 1,810  | 3,120  | 4,440   | 15,700  | 14,900  | 3,740   | 11,500  | 5,290   | 8,970   | 1,790  | 2,140  | 13,300  |
| 9     | 1,650  | 2,610  | 3,710   | 14,500  | 16,500  | 3,580   | 9,190   | 4,650   | 10,500  | 1,750  | 2,110  | 18,900  |
| 10    | 1,650  | 2,230  | 3,010   | 13,400  | 15,000  | 3,380   | 6,580   | 3,970   | 10,800  | 1,650  | 2,070  | 20,300  |
| 11    | 1,660  | 2,470  | 2,620   | 12,400  | 11,900  | 3,270   | 4,930   | 3,620   | 10,300  | 1,580  | 1,900  | 21,000  |
| 12    | 1,700  | 2,620  | 2,370   | 12,800  | 9,510   | 4,160   | 4,310   | 8,600   | 9,110   | 1,520  | 1,750  | 20,500  |
| 13    | 1,790  | 2,220  | 2,230   | 14,800  | 7,760   | 5,070   | 14,100  | 14,000  | 7,540   | 1,470  | 1,530  | 16,900  |
| 14    | 1,670  | 1,970  | 2,140   | 15,400  | 6,560   | 8,060   | 30,900  | 14,800  | 5,300   | 1,450  | 1,560  | 11,400  |
| 15    | 1,550  | 1,800  | 2,080   | 14,500  | 5,770   | 7,970   | 43,300  | 13,100  | 3,890   | 1,430  | 2,250  | 7,310   |
| 16    | 1,510  | 1,720  | 2,190   | 12,900  | 6,740   | 6,920   | 58,100  | 10,600  | 4,280   | 1,580  | 3,450  | 5,020   |
| 17    | 1,590  | 1,680  | 2,230   | 11,800  | 10,400  | 5,860   | 96,800  | 7,880   | 3,900   | 1,670  | 2,810  | 3,890   |
| 18    | 1,960  | 1,640  | 2,120   | 11,200  | 13,200  | 4,770   | 106,000 | 5,550   | 3,170   | 1,810  | 2,510  | 3,390   |
| 19    | 2,090  | 1,600  | 2,020   | 10,800  | 14,400  | 4,040   | 84,600  | 4,270   | 2,920   | 1,610  | 3,080  | 3,030   |
| 20    | 2,030  | 1,540  | 5,010   | 12,500  | 15,500  | 3,740   | 61,200  | 3,570   | 2,770   | 1,510  | 3,540  | 2,770   |
| 21    | 1,850  | 1,680  | 8,030   | 17,300  | 16,500  | 4,870   | 44,400  | 3,240   | 2,560   | 1,450  | 3,500  | 2,590   |
| 22    | 1,650  | 2,500  | 8,360   | 18,100  | 16,100  | 5,750   | 28,900  | 3,030   | 2,460   | 1,400  | 2,870  | 2,450   |
| 23    | 1,540  | 3,650  | 7,660   | 18,100  | 15,400  | 6,040   | 16,100  | 3,740   | 2,310   | 1,540  | 2,410  | 2,290   |
| 24    | 1,450  | 3,740  | 6,830   | 18,600  | 13,900  | 6,050   | 10,400  | 10,200  | 2,250   | 2,040  | 1,980  | 2,150   |
| 25    | 1,400  | 3,580  | 6,240   | 21,200  | 11,200  | 5,750   | 9,380   | 12,900  | 2,890   | 1,900  | 1,560  | 2,050   |
| 26    | 1,330  | 3,300  | 15,900  | 23,400  | 9,240   | 6,120   | 8,340   | 9,900   | 3,500   | 2,090  | 1,500  | 2,010   |
| 27    | 1,290  | 2,750  | 24,100  | 25,600  | 7,590   | 14,100  | 7,990   | 6,050   | 3,060   | 2,030  | 1,440  | 2,040   |
| 28    | 1,250  | 3,520  | 34,100  | 26,600  | 6,330   | 19,900  | 6,390   | 4,440   | 2,520   | 2,370  | 1,460  | 2,240   |
| 29    | 1,240  | 5,500  | 51,700  | 27,200  | -----   | 20,300  | 5,190   | 3,640   | 2,260   | 2,940  | 1,550  | 2,420   |
| 30    | 1,210  | 6,140  | 63,900  | 27,600  | -----   | 19,500  | 4,570   | 3,190   | 2,040   | 2,670  | 1,930  | 2,400   |
| 31    | 1,220  | -----  | 59,600  | 26,300  | -----   | 16,700  | -----   | 2,890   | -----   | 2,180  | 2,410  | -----   |
| TOTAL | 60,230 | 77,380 | 354,590 | 626,400 | 348,700 | 222,090 | 768,960 | 192,730 | 135,280 | 55,730 | 68,370 | 218,120 |
| MEAN  | 1,943  | 2,579  | 11,440  | 20,210  | 12,450  | 7,164   | 25,630  | 6,219   | 4,509   | 1,798  | 2,212  | 7,271   |
| MAX   | 4,890  | 6,140  | 63,900  | 50,200  | 23,900  | 20,300  | 106,000 | 14,800  | 10,900  | 2,940  | 3,540  | 21,000  |
| MIN   | 1,210  | 1,330  | 2,020   | 10,800  | 5,770   | 3,270   | 4,310   | 2,890   | 2,040   | 1,400  | 1,440  | 2,010   |
| CFSM  | .55    | .73    | 3.26    | 5.76    | 3.55    | 2.04    | 7.30    | 1.77    | 1.28    | .51    | .63    | 2.07    |
| IV.   | .64    | .82    | 3.75    | 6.64    | 3.70    | 2.35    | 8.15    | 2.04    | 1.43    | .59    | .73    | 2.31    |

CAL YR 1973 TOTAL 728,760 MEAN 1,997 MAX 63,900 MIN 1,210 CFSM .57 IV 7.72  
WTR YR 1974 TOTAL 3,128,830 MEAN 8,572 MAX 106,000 MIN 1,210 CFSM 2.44 IV 33.16

02475500 Chunky River near Chunky, Miss.

LOCATION.--Lat 32°19'35", long 88°54'35", in SE¼SW¼ sec.30, T.6 N., R.14 E., Choctaw meridian, Lauderdale County, on right bank at downstream side of bridge on U.S. Highway 80, 2,500 ft (762 m) upstream from Illinois Central Railroad bridge, 1.2 miles (1.9 km) east of Chunky, 3.2 miles (5.1 km) upstream from Tallahatta Creek, and 5.5 miles (8.8 km) downstream from Concobona Creek.

DRAINAGE AREA.--368 mi<sup>2</sup> (953 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 269.00 ft (81.991 m) above mean sea level. Prior to Mar. 24, 1939, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--36 years, 462 ft<sup>3</sup>/s (13.08 m<sup>3</sup>/s), 17.05 in/yr (433 mm/yr).

EXTREMES.--Current year: Maximum discharge, 29,800 ft<sup>3</sup>/s (844 m<sup>3</sup>/s) Apr. 13 (gage height, 25.45 ft or 7.757 m); minimum, 36 ft<sup>3</sup>/s (1.020 m<sup>3</sup>/s) Aug. 28 (gage height, 2.68 ft or 0.817 m).  
Period of record: Maximum discharge, 30,800 ft<sup>3</sup>/s (872 m<sup>3</sup>/s) Feb. 22, 1961 (gage height, 25.58 ft or 7.797 m in gage well, 25.75 ft or 7.849 m from outside gage); minimum, 1.6 ft<sup>3</sup>/s (0.045 m<sup>3</sup>/s) Sept. 28-30, 1954; minimum gage height, 2.08 ft (0.634 m) Oct. 21, 22, 1963.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1724: 1950 (M).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY         | OCT           | NOV   | DEC      | JAN    | FEB        | MAR    | APR    | MAY   | JUN       | JUL   | AUG      | SEP   |
|-------------|---------------|-------|----------|--------|------------|--------|--------|-------|-----------|-------|----------|-------|
| 1           | 358           | 86    | 281      | 2,040  | 955        | 495    | 450    | 247   | 120       | 82    | 50       | 146   |
| 2           | 413           | 106   | 214      | 1,730  | 581        | 464    | 2,120  | 228   | 307       | 78    | 49       | 397   |
| 3           | 243           | 93    | 183      | 1,150  | 515        | 440    | 3,650  | 217   | 528       | 73    | 85       | 800   |
| 4           | 141           | 82    | 351      | 1,400  | 492        | 412    | 3,630  | 208   | 307       | 59    | 127      | 450   |
| 5           | 110           | 157   | 1,140    | 1,440  | 405        | 382    | 1,750  | 238   | 277       | 73    | 74       | 152   |
| 6           | 94            | 315   | 842      | 1,110  | 447        | 357    | 847    | 274   | 1,720     | 110   | 81       | 114   |
| 7           | 84            | 196   | 352      | 2,100  | 1,730      | 335    | 555    | 212   | 2,190     | 201   | 65       | 111   |
| 8           | 76            | 193   | 249      | 1,500  | 2,360      | 315    | 452    | 158   | 2,010     | 197   | 64       | 795   |
| 9           | 68            | 207   | 213      | 1,150  | 2,070      | 295    | 395    | 146   | 995       | 131   | 91       | 1,410 |
| 10          | 66            | 159   | 190      | 1,080  | 1,000      | 283    | 328    | 135   | 380       | 92    | 85       | 1,110 |
| 11          | 63            | 121   | 172      | 1,000  | 531        | 291    | 288    | 203   | 261       | 77    | 64       | 405   |
| 12          | 59            | 103   | 160      | 2,000  | 511        | 700    | 1,470  | 825   | 200       | 57    | 61       | 243   |
| 13          | 56            | 95    | 156      | 1,450  | 441        | 1,010  | 15,300 | 805   | 171       | 50    | 117      | 171   |
| 14          | 55            | 90    | 159      | 1,200  | 408        | 556    | 21,900 | 331   | 152       | 56    | 271      | 138   |
| 15          | 60            | 88    | 151      | 1,100  | 1,390      | 384    | 8,300  | 202   | 143       | 54    | 284      | 117   |
| 16          | 113           | 86    | 274      | 1,900  | 3,370      | 335    | 4,070  | 191   | 129       | 53    | 129      | 107   |
| 17          | 377           | 84    | 261      | 1,500  | 6,160      | 306    | 2,120  | 207   | 115       | 56    | 87       | 93    |
| 18          | 250           | 82    | 181      | 1,100  | 4,470      | 273    | 970    | 157   | 106       | 56    | 82       | 90    |
| 19          | 131           | 81    | 165      | 1,000  | 2,590      | 278    | 739    | 135   | 114       | 95    | 195      | 73    |
| 20          | 97            | 81    | 1,000    | 950    | 2,260      | 325    | 510    | 119   | 123       | 107   | 215      | 56    |
| 21          | 84            | 282   | 1,770    | 1,700  | 1,900      | 549    | 520    | 107   | 111       | 95    | 121      | 51    |
| 22          | 77            | 743   | 1,420    | 1,450  | 1,750      | 591    | 920    | 109   | 97        | 103   | 75       | 58    |
| 23          | 71            | 410   | 585      | 1,280  | 1,940      | 401    | 2,000  | 149   | 206       | 101   | 58       | 55    |
| 24          | 69            | 220   | 400      | 1,230  | 1,440      | 340    | 1,400  | 197   | 985       | 409   | 49       | 56    |
| 25          | 68            | 178   | 2,000    | 2,050  | 980        | 340    | 950    | 141   | 590       | 173   | 45       | 57    |
| 26          | 64            | 164   | 5,410    | 2,630  | 577        | 406    | 551    | 132   | 212       | 126   | 40       | 118   |
| 27          | 64            | 156   | 9,600    | 2,680  | 585        | 921    | 424    | 341   | 144       | 94    | 39       | 236   |
| 28          | 64            | 707   | 5,920    | 2,280  | 531        | 1,160  | 351    | 271   | 114       | 79    | 37       | 195   |
| 29          | 66            | 1,110 | 3,130    | 2,280  | -----      | 1,050  | 304    | 154   | 98        | 70    | 39       | 152   |
| 30          | 63            | 548   | 1,160    | 2,350  | -----      | 1,060  | 271    | 126   | 88        | 52    | 47       | 232   |
| 31          | 68            | ----- | 1,690    | 1,670  | -----      | 578    | -----  | 110   | -----     | 55    | 80       | ----- |
| TOTAL       | 3,672         | 7,023 | 39,779   | 49,500 | 42,590     | 15,532 | 77,546 | 7,095 | 13,093    | 3,144 | 2,905    | 8,298 |
| MEAN        | 118           | 234   | 1,283    | 1,597  | 1,521      | 504    | 2,585  | 229   | 435       | 101   | 93.7     | 274   |
| MAX         | 413           | 1,110 | 9,600    | 6,160  | 6,160      | 1,160  | 21,900 | 825   | 2,190     | 409   | 284      | 1,410 |
| MIN         | 55            | 81    | 151      | 950    | 406        | 273    | 271    | 107   | 88        | 53    | 37       | 55    |
| CFSM        | .32           | .64   | 3.49     | 4.34   | 4.13       | 1.37   | 7.02   | .52   | 1.18      | .27   | .25      | .74   |
| IN.         | .37           | .71   | 4.02     | 5.00   | 4.31       | 1.58   | 7.84   | .72   | 1.32      | .32   | .29      | .33   |
| CAL YR 1973 | TOTAL 275,013 |       | MEAN 753 |        | MAX 9,500  |        | MIN 52 |       | CFSM 2.05 |       | IN 27.80 |       |
| WTR YR 1974 | TOTAL 270,187 |       | MEAN 740 |        | MAX 21,900 |        | MIN 37 |       | CFSM 2.01 |       | IN 27.31 |       |

## PEAK DISCHARGE (BASE, 5,000 CFS)

| DATE  | TIME | G.H.T. | DISCHARGE | DATE  | TIME | G.H.T. | DISCHARGE |
|-------|------|--------|-----------|-------|------|--------|-----------|
| 12-27 | 0600 | 18.88  | 10,400    | 04-13 | 2100 | 25.45  | 29,800    |
| 02-17 | 1300 | 14.72  | 6,760     |       |      |        |           |

## PASCAGOULA RIVER BASIN

02476500 Sowashee Creek at Meridian, Miss.

LOCATION.--Lat 32°22'10", long 88°40'40", in NE¼ sec.17, T.6 N., R.16 E., Choctaw meridian, Lauderdale County, near right bank on upstream side of bridge on U.S. Highway 45, 0.6 mile (1.0 km) downstream from Southern Railway System bridge, and 8 miles (13 km) upstream from mouth.

DRAINAGE AREA.--51.9 mi<sup>2</sup> (134.4 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 305.95 ft (93.254 m) above mean sea level. Prior to Nov. 13, 1959, water-stage recorder and nonrecording gage at site 0.4 mile (0.6 km) upstream at datum 3.00 ft (0.914 m) higher.

AVERAGE DISCHARGE.--24 years, 60.5 ft<sup>3</sup>/s (1.713 m<sup>3</sup>/s), 15.83 in/yr (402 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,420 ft<sup>3</sup>/s (182 m<sup>3</sup>/s) Apr. 13 (gage height, 21.52 ft or 6.559 m); minimum, 4.3 ft<sup>3</sup>/s (0.122 m<sup>3</sup>/s) Oct. 12 (gage height, 2.29 ft or 0.698 m).

Period of record: Maximum discharge, 9,530 ft<sup>3</sup>/s (270 m<sup>3</sup>/s) Apr. 6, 1964 (gage height, 20.95 ft or 6.386 m, present site and datum); maximum gage height, 21.52 ft (6.559 m) Apr. 13, 1974; minimum discharge, 0.20 ft<sup>3</sup>/s (0.006 m<sup>3</sup>/s) Oct. 4, 1954, and at times during July, August, September, 1957.

Maximum stage known since at least 1900, 29.5 ft (8.99 m) in February 1936, at site 0.6 mile (1.0 km) upstream at present datum, from information by Southern Railway Company. Flood of Mar. 31, 1949, reached a stage of 26.6 ft (8.11 m), at site 0.6 mile (1.0 km) upstream at present datum, from information by Southern Railway Company. Flood of Apr. 8, 1938, reached a stage of 26 ft (7.9 m) at site 0.4 mile (0.6 km) upstream at present datum, from information by National Weather Service. The flood of Feb. 21, 1961, reached a stage 6.7 ft (2.04 m) lower than that of the flood in February 1936, at site 0.6 mile (1.0 km) upstream.

REMARKS.--Records fair except those below 10 ft<sup>3</sup>/s (0.283 m<sup>3</sup>/s) after June 1, which are poor. Records of chemical analyses for the current year are published in Part 2 of this report.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT   | NOV   | DEC     | JAN   | FEB   | MAR   | APR    | MAY  | JUN     | JUL   | AUG   | SEP     |
|-------|-------|-------|---------|-------|-------|-------|--------|------|---------|-------|-------|---------|
| 1     | 21    | 18    | 11      | 686   | 92    | 68    | 63     | 40   | 97      | 8.0   | 6.4   | 43      |
| 2     | 18    | 15    | 9.2     | 169   | 96    | 66    | 796    | 38   | 137     | 7.9   | 19    | 45      |
| 3     | 20    | 16    | 8.6     | 309   | 84    | 61    | 169    | 35   | 40      | 7.7   | 97    | 37      |
| 4     | 15    | 24    | 80      | 348   | 70    | 57    | 580    | 33   | 66      | 7.6   | 70    | 18      |
| 5     | 12    | 38    | 45      | 147   | 64    | 56    | 301    | 33   | 395     | 7.6   | 16    | 14      |
| 6     | 9.5   | 21    | 21      | 145   | 113   | 52    | 105    | 31   | 2,270   | 11    | 11    | 13      |
| 7     | 7.4   | 19    | 14      | 375   | 242   | 49    | 84     | 29   | 233     | 9.0   | 16    | 65      |
| 8     | 6.7   | 24    | 12      | 169   | 136   | 45    | 74     | 25   | 91      | 8.0   | 25    | 358     |
| 9     | 5.7   | 18    | 11      | 123   | 94    | 42    | 60     | 23   | 65      | 7.0   | 12    | 154     |
| 10    | 5.1   | 13    | 9.2     | 103   | 81    | 40    | 53     | 22   | 49      | 7.0   | 11    | 65      |
| 11    | 4.9   | 10    | 8.1     | 92    | 73    | 40    | 47     | 64   | 40      | 14    | 10    | 35      |
| 12    | 4.6   | 8.5   | 8.1     | 347   | 66    | 67    | 1,170  | 83   | 33      | 9.8   | 9.8   | 25      |
| 13    | 5.4   | 7.6   | 9.2     | 330   | 63    | 47    | 4,040  | 37   | 52      | 8.5   | 12    | 20      |
| 14    | 15    | 6.8   | 8.1     | 143   | 63    | 39    | 1,130  | 31   | 148     | 7.7   | 64    | 16      |
| 15    | 18    | 6.4   | 9.9     | 108   | 569   | 35    | 433    | 29   | 46      | 7.3   | 16    | 13      |
| 16    | 97    | 6.0   | 8.6     | 300   | 1,190 | 33    | 198    | 34   | 33      | 6.9   | 14    | 11      |
| 17    | 41    | 5.6   | 7.5     | 180   | 227   | 30    | 129    | 25   | 26      | 6.6   | 11    | 10      |
| 18    | 18    | 5.3   | 6.0     | 120   | 145   | 29    | 105    | 21   | 21      | 6.4   | 66    | 9.4     |
| 19    | 12    | 5.1   | 24      | 105   | 337   | 31    | 91     | 19   | 22      | 6.2   | 45    | 8.8     |
| 20    | 9.5   | 5.0   | 176     | 90    | 152   | 53    | 81     | 16   | 17      | 10    | 12    | 8.2     |
| 21    | 7.8   | 115   | 63      | 260   | 172   | 96    | 71     | 14   | 13      | 16    | 10    | 7.8     |
| 22    | 7.0   | 36    | 39      | 180   | 333   | 56    | 193    | 26   | 11      | 11    | 8.9   | 7.5     |
| 23    | 6.7   | 18    | 31      | 105   | 133   | 46    | 187    | 39   | 30      | 27    | 8.1   | 7.2     |
| 24    | 6.7   | 14    | 27      | 199   | 108   | 39    | 88     | 23   | 21      | 14    | 7.5   | 7.0     |
| 25    | 6.3   | 12    | 2,590   | 267   | 89    | 43    | 70     | 17   | 12      | 9.8   | 7.1   | 15      |
| 26    | 6.0   | 14    | 4,070   | 350   | 81    | 38    | 61     | 24   | 9.8     | 9.0   | 6.7   | 67      |
| 27    | 6.0   | 23    | 514     | 238   | 77    | 136   | 55     | 20   | 9.3     | 8.2   | 6.4   | 37      |
| 28    | 6.3   | 60    | 159     | 281   | 73    | 85    | 49     | 15   | 8.8     | 7.6   | 12    | 20      |
| 29    | 6.0   | 24    | 124     | 215   | ----- | 253   | 46     | 13   | 8.5     | 7.2   | 10    | 23      |
| 30    | 7.8   | 14    | 109     | 133   | ----- | 106   | 43     | 12   | 8.3     | 6.8   | 18    | 17      |
| 31    | 15    | ----- | 1,240   | 106   | ----- | 68    | -----  | 12   | -----   | 6.5   | 74    | -----   |
| TOTAL | 427.4 | 602.3 | 9,452.5 | 6,723 | 5,023 | 1,906 | 10,572 | 883  | 4,012.7 | 287.3 | 711.9 | 1,176.9 |
| MEAN  | 13.8  | 20.1  | 305     | 217   | 179   | 61.5  | 352    | 28.5 | 134     | 9.27  | 23.0  | 39.2    |
| MAX   | 97    | 115   | 4,070   | 686   | 1,190 | 253   | 4,040  | 83   | 2,270   | 27    | 97    | 358     |
| MIN   | 4.6   | 5.0   | 6.0     | 90    | 63    | 29    | 43     | 12   | 8.3     | 6.2   | 6.4   | 7.0     |
| CFSM  | .27   | .39   | 5.88    | 4.18  | 3.45  | 1.19  | 6.78   | .55  | 2.58    | .18   | .44   | .76     |
| IN.   | .31   | .43   | 6.78    | 4.82  | 3.60  | 1.37  | 7.58   | .63  | 2.88    | .21   | .51   | .84     |

CAL YR 1973 TOTAL 42,366.9 MEAN 116 MAX 4,070 MIN 4.6 CFSM 2.24 IN 30.37  
WTR YR 1974 TOTAL 41,778.0 MEAN 114 MAX 4,070 MIN 4.6 CFSM 2.20 IN 29.94

## PEAK DISCHARGE (BASE, 1,300 CFS)

| DATE  | TIME | G.H.T. | DISCHARGE | DATE  | TIME | G.H.T. | DISCHARGE |
|-------|------|--------|-----------|-------|------|--------|-----------|
| 12-26 | 1100 | 20.14  | 5,140     | 04-13 | 0300 | 21.52  | 6,420     |
| 12-31 | 1830 | 15.72  | 2,390     | 06-06 | 1200 | 17.51  | 3,310     |
| 02-16 | 0900 | 13.42  | 1,730     |       |      |        |           |



## PASCAGOULA RIVER BASIN

55

02476600 Okatibbee Creek at Arundel, Miss.

LOCATION.--Lat 32°17'55", long 88°45'15", in SE¼SW¼ sec.3, T.5 N., R.15 E., Choctaw meridian, Lauderdale County, on right bank, 100 ft (30 m) downstream from Hognose Creek, 400 ft (120 m) upstream from bridge on county road, 0.6 mile (1.0 km) southeast of Arundel, and at mile 16.3 (26.2 km).

DRAINAGE AREA.--342 mi<sup>2</sup> (886 km<sup>2</sup>).

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 259.04 ft (78.955 m) above mean sea level (Corps of Engineers bench mark). Auxiliary waterstage recorder at bridge 400 ft (120 m) downstream at same datum.

AVERAGE DISCHARGE.--6 years, 505 ft<sup>3</sup>/s (14.30 m<sup>3</sup>/s), 20.05 in/yr (509 mm/yr).

EXTREMES.--Current year: Maximum discharge, 12,400 ft<sup>3</sup>/s (351 m<sup>3</sup>/s) Dec. 26 (gage height, 19.64 ft or 5.986 m; gage height at auxiliary gage, 19.28 ft, or 5.876 m); minimum daily, 43 ft<sup>3</sup>/s (1.22 m<sup>3</sup>/s) Nov. 17, 18.  
Period of record: Maximum discharge, 12,400 ft<sup>3</sup>/s (351 m<sup>3</sup>/s) Dec. 26, 1973 (gage height, 19.64 ft or 5.986 m); gage height at auxiliary gage, 19.28 ft or 5.876 m); minimum daily, 20 ft<sup>3</sup>/s (0.57 m<sup>3</sup>/s) Oct. 5, 26, 1968. Flood in 1961 reached a stage of 22.2 ft (6.77 m) at county road bridge 400 ft (120 m) downstream (from information by Corps of Engineers).

REMARKS.--Records good. Flow from 154 mi<sup>2</sup> (399 km<sup>2</sup>) above the station, regulated by Okatibbee Lake, 21.3 miles (34.3 km) upstream. Records of chemical analyses for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height record at auxiliary gage and 13 discharge measurements furnished by Corps of Engineers.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT   | NOV   | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL   | AUG   | SEP   |
|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 1     | 164   | 89    | 69     | 4,410  | 1,480  | 1,420  | 616    | 1,300  | 364    | 106   | 84    | 179   |
| 2     | 151   | 78    | 62     | 1,700  | 1,550  | 1,400  | 1,740  | 1,150  | 662    | 94    | 95    | 264   |
| 3     | 149   | 50    | 59     | 916    | 1,400  | 1,380  | 1,080  | 423    | 328    | 89    | 93    | 209   |
| 4     | 115   | 45    | 184    | 1,100  | 1,210  | 1,360  | 1,600  | 304    | 306    | 85    | 190   | 117   |
| 5     | 84    | 146   | 317    | 1,090  | 1,220  | 1,340  | 1,240  | 253    | 821    | 86    | 126   | 88    |
| 6     | 79    | 109   | 164    | 1,130  | 1,360  | 1,320  | 763    | 224    | 3,080  | 96    | 84    | 98    |
| 7     | 75    | 99    | 99     | 1,370  | 1,670  | 1,290  | 774    | 199    | 2,850  | 89    | 76    | 219   |
| 8     | 74    | 101   | 75     | 1,390  | 1,270  | 1,270  | 738    | 185    | 981    | 82    | 123   | 983   |
| 9     | 72    | 84    | 61     | 1,330  | 1,240  | 1,250  | 594    | 179    | 450    | 80    | 86    | 804   |
| 10    | 68    | 66    | 52     | 822    | 1,370  | 1,220  | 562    | 174    | 263    | 76    | 70    | 362   |
| 11    | 70    | 55    | 48     | 1,020  | 1,430  | 947    | 547    | 406    | 200    | 86    | 68    | 282   |
| 12    | 66    | 51    | 48     | 1,680  | 1,430  | 706    | 2,170  | 540    | 160    | 96    | 91    | 233   |
| 13    | 62    | 52    | 48     | 1,450  | 1,410  | 617    | 10,600 | 284    | 340    | 91    | 140   | 195   |
| 14    | 57    | 47    | 46     | 1,540  | 1,390  | 551    | 7,760  | 344    | 898    | 88    | 252   | 177   |
| 15    | 155   | 45    | 60     | 2,170  | 1,670  | 522    | 3,520  | 367    | 886    | 93    | 139   | 165   |
| 16    | 387   | 45    | 50     | 2,050  | 3,800  | 441    | 2,310  | 371    | 936    | 90    | 90    | 162   |
| 17    | 374   | 43    | 53     | 1,730  | 2,930  | 331    | 1,880  | 357    | 940    | 86    | 124   | 150   |
| 18    | 159   | 43    | 46     | 1,610  | 1,360  | 296    | 1,720  | 341    | 954    | 91    | 133   | 158   |
| 19    | 102   | 45    | 46     | 1,550  | 1,490  | 312    | 1,620  | 328    | 995    | 82    | 243   | 143   |
| 20    | 85    | 45    | 678    | 1,440  | 1,590  | 331    | 1,530  | 320    | 900    | 85    | 123   | 135   |
| 21    | 74    | 402   | 590    | 1,590  | 1,450  | 526    | 1,460  | 312    | 554    | 118   | 88    | 128   |
| 22    | 71    | 302   | 486    | 1,140  | 1,870  | 446    | 1,560  | 331    | 418    | 89    | 89    | 124   |
| 23    | 67    | 144   | 461    | 1,240  | 1,470  | 347    | 1,860  | 382    | 421    | 126   | 95    | 122   |
| 24    | 69    | 103   | 443    | 1,380  | 1,390  | 331    | 1,440  | 338    | 299    | 113   | 88    | 121   |
| 25    | 76    | 86    | 3,330  | 1,480  | 1,460  | 333    | 1,400  | 312    | 198    | 86    | 85    | 137   |
| 26    | 73    | 81    | 10,700 | 1,620  | 1,480  | 347    | 1,410  | 344    | 150    | 78    | 82    | 471   |
| 27    | 72    | 104   | 6,650  | 1,490  | 1,470  | 702    | 1,380  | 360    | 130    | 90    | 81    | 258   |
| 28    | 72    | 235   | 2,440  | 1,570  | 1,450  | 630    | 1,360  | 325    | 118    | 94    | 95    | 177   |
| 29    | 70    | 124   | 1,020  | 1,830  | -----  | 1,040  | 1,320  | 301    | 112    | 92    | 110   | 176   |
| 30    | 72    | 86    | 928    | 1,390  | -----  | 878    | 1,310  | 290    | 111    | 90    | 121   | 160   |
| 31    | 95    | ----- | 1,890  | 1,390  | -----  | 680    | -----  | 284    | -----  | 86    | 240   | ----- |
| TOTAL | 3,359 | 3,005 | 31,203 | 47,618 | 44,310 | 24,564 | 58,664 | 11,628 | 19,825 | 2,833 | 3,604 | 6,997 |
| MEAN  | 108   | 100   | 1,007  | 1,536  | 1,583  | 792    | 1,955  | 375    | 661    | 91.4  | 116   | 233   |
| MAX   | 387   | 402   | 10,700 | 4,410  | 3,800  | 1,420  | 10,600 | 1,300  | 3,080  | 126   | 252   | 983   |
| MIN   | 57    | 43    | 46     | 822    | 1,210  | 296    | 547    | 174    | 111    | 76    | 68    | 88    |
| CFSM  | .32   | .29   | 2.94   | 4.49   | 4.63   | 2.32   | 5.72   | 1.10   | 1.93   | .27   | .34   | .68   |
| IN.   | .37   | .33   | 3.39   | 5.18   | 4.82   | 2.67   | 6.38   | 1.26   | 2.16   | .31   | .39   | .76   |

CAL YR 1973 TOTAL 260,527 MEAN 714 MAX 10,700 MIN 43 CFSM 2.09 IN 28.34  
WTR YR 1974 TOTAL 257,610 MEAN 706 MAX 10,700 MIN 43 CFSM 2.06 IN 28.02

## PASCAGOULA RIVER BASIN

02477000 Chickasawhay River at Enterprise, Miss.

LOCATION.--Lat 32°10'30", long 88°49'15", in SE¼NW¼ sec.24, T.4 N., R.14 E., Choctaw meridian, Clarke County, on right bank at downstream side of bridge on State Highway 513 in Enterprise, 0.5 mile (0.8 km) downstream from confluence of Chunky River and Okatibbee Creek, and at mile 158.2 (254.5 km).

DRAINAGE AREA.--913 mi<sup>2</sup> (2,365 km<sup>2</sup>).

PERIOD OF RECORD.--August 1938 to current year. Gage-height records collected at same site since 1904 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 207.62 ft (63.283 m) above mean sea level. Prior to Jan. 6, 1939, National Weather Service nonrecording gage. Prior to Oct. 1, 1966, at datum 5.00 ft (1.524 m) higher.

AVERAGE DISCHARGE.--36 years, 1,177 ft<sup>3</sup>/s (33.33 m<sup>3</sup>/s), 17.51 in/yr (445 mm/yr).

EXTREMES.--Current year: Maximum discharge, 45,300 ft<sup>3</sup>/s (1,280 m<sup>3</sup>/s) Apr. 14 (gage height, 40.25 ft or 12.268 m); minimum, 140 ft<sup>3</sup>/s (3.96 m<sup>3</sup>/s) Oct. 14 (gage height, 5.26 ft or 1.603 m).  
Period of record: Maximum discharge, 61,700 ft<sup>3</sup>/s (1,750 m<sup>3</sup>/s) Feb. 23, 1961 (gage height, 42.94 ft or 13.088 m, present datum); minimum, 18 ft<sup>3</sup>/s (0.51 m<sup>3</sup>/s) Sept. 25-30, 1954, Oct. 22-25, 1963; minimum gage height, 3.95 ft or 1.204 m (present datum) Oct. 13-20, 23, 24, 1952, Aug. 30, 1957.  
Flood in April 1900 reached a stage of 42.2 ft or 12.86 m (present datum) from floodmark (from reports of National Weather Service).

REMARKS.--Records good. Some regulation since Nov. 26, 1968, by Okatibbee Lake, 38 miles (61 km) upstream. Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1334: 1953. WRD Miss. 1966: 1965.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT   | NOV    | DEC     | JAN     | FEB     | MAR    | APR     | MAY    | JUN    | JUL   | AUG   | SEP    |
|-------|-------|--------|---------|---------|---------|--------|---------|--------|--------|-------|-------|--------|
| 1     | 433   | 227    | 542     | 7,760   | 3,220   | 2,110  | 1,330   | 1,870  | 464    | 235   | 162   | 447    |
| 2     | 765   | 232    | 416     | 6,590   | 2,750   | 2,040  | 3,570   | 1,800  | 1,190  | 223   | 232   | 772    |
| 3     | 616   | 222    | 363     | 4,150   | 2,540   | 1,990  | 5,980   | 1,350  | 1,230  | 210   | 332   | 1,190  |
| 4     | 377   | 186    | 548     | 3,720   | 2,150   | 1,940  | 6,660   | 854    | 852    | 199   | 455   | 938    |
| 5     | 280   | 294    | 1,460   | 3,400   | 1,980   | 1,890  | 5,450   | 756    | 1,220  | 252   | 309   | 394    |
| 6     | 232   | 503    | 1,330   | 2,940   | 2,070   | 1,830  | 2,990   | 740    | 4,310  | 295   | 223   | 294    |
| 7     | 211   | 406    | 708     | 3,250   | 3,360   | 1,780  | 1,760   | 647    | 5,560  | 309   | 228   | 494    |
| 8     | 196   | 377    | 500     | 3,800   | 4,310   | 1,730  | 1,510   | 557    | 5,030  | 328   | 313   | 2,290  |
| 9     | 182   | 384    | 425     | 3,910   | 3,980   | 1,690  | 1,320   | 494    | 2,590  | 288   | 243   | 2,970  |
| 10    | 171   | 326    | 344     | 2,890   | 3,130   | 1,650  | 1,120   | 458    | 1,080  | 225   | 232   | 2,020  |
| 11    | 162   | 264    | 357     | 3,070   | 2,450   | 1,550  | 1,050   | 755    | 740    | 198   | 181   | 1,150  |
| 12    | 152   | 228    | 336     | 4,730   | 2,260   | 1,560  | 4,430   | 1,800  | 579    | 198   | 167   | 778    |
| 13    | 148   | 213    | 328     | 4,640   | 2,150   | 1,780  | 16,300  | 1,520  | 607    | 186   | 284   | 592    |
| 14    | 141   | 203    | 322     | 4,130   | 2,070   | 1,390  | 34,200  | 954    | 1,100  | 177   | 688   | 498    |
| 15    | 179   | 189    | 332     | 4,880   | 3,070   | 1,100  | 32,500  | 800    | 1,180  | 171   | 698   | 433    |
| 16    | 363   | 184    | 406     | 5,420   | 8,570   | 986    | 16,900  | 758    | 1,210  | 191   | 342   | 386    |
| 17    | 909   | 176    | 464     | 5,140   | 10,800  | 842    | 7,990   | 752    | 1,200  | 169   | 277   | 350    |
| 18    | 635   | 171    | 351     | 4,040   | 10,500  | 743    | 4,800   | 698    | 1,190  | 188   | 316   | 324    |
| 19    | 338   | 171    | 339     | 3,100   | 6,700   | 791    | 3,810   | 619    | 1,230  | 218   | 476   | 309    |
| 20    | 253   | 171    | 1,520   | 3,510   | 5,330   | 845    | 3,110   | 573    | 1,220  | 225   | 524   | 288    |
| 21    | 220   | 619    | 2,580   | 4,560   | 4,500   | 1,290  | 2,510   | 536    | 893    | 239   | 334   | 270    |
| 22    | 196   | 1,230  | 2,120   | 3,970   | 4,390   | 1,390  | 2,510   | 749    | 597    | 241   | 228   | 252    |
| 23    | 184   | 871    | 1,350   | 3,380   | 4,220   | 1,060  | 3,580   | 974    | 582    | 282   | 201   | 235    |
| 24    | 172   | 497    | 1,020   | 3,440   | 3,480   | 906    | 3,920   | 740    | 1,180  | 512   | 186   | 232    |
| 25    | 174   | 384    | 6,750   | 4,480   | 2,750   | 893    | 3,250   | 644    | 1,220  | 363   | 167   | 244    |
| 26    | 172   | 350    | 17,500  | 5,430   | 2,420   | 932    | 2,510   | 610    | 610    | 277   | 156   | 1,530  |
| 27    | 171   | 430    | 21,600  | 5,550   | 2,270   | 1,720  | 2,270   | 920    | 425    | 223   | 156   | 1,110  |
| 28    | 174   | 951    | 20,000  | 5,160   | 2,180   | 2,210  | 2,130   | 874    | 363    | 215   | 213   | 628    |
| 29    | 171   | 1,480  | 11,800  | 5,360   | -----   | 2,400  | 2,020   | 635    | 330    | 196   | 232   | 576    |
| 30    | 169   | 944    | 4,920   | 5,040   | -----   | 2,560  | 1,740   | 542    | 266    | 184   | 243   | 536    |
| 31    | 193   | -----  | 5,510   | 4,210   | -----   | 1,740  | -----   | 497    | -----  | 179   | 282   | -----  |
| TOTAL | 9,739 | 12,893 | 106,182 | 135,650 | 109,710 | 47,328 | 183,620 | 26,316 | 40,348 | 7,396 | 9,080 | 22,510 |
| MEAN  | 282   | 429    | 3,425   | 4,376   | 3,918   | 1,527  | 6,121   | 849    | 1,345  | 239   | 293   | 750    |
| MAX   | 909   | 1,480  | 21,600  | 7,760   | 10,800  | 2,560  | 34,200  | 1,870  | 5,560  | 512   | 698   | 2,970  |
| MIN   | 141   | 171    | 322     | 2,890   | 1,980   | 743    | 1,050   | 458    | 266    | 169   | 156   | 232    |
| CFSM  | .31   | .47    | 3.75    | 4.79    | 4.29    | 1.67   | 6.70    | .93    | 1.47   | .26   | .32   | .82    |
| IN.   | .36   | .52    | 4.33    | 5.53    | 4.47    | 1.93   | 7.48    | 1.07   | 1.64   | .30   | .37   | .92    |

CAL YR 1973 TOTAL 745,718 MEAN 2,043 MAX 21,600 MIN 141 CFSM 2.24 IN 30.38  
WTR YR 1974 TOTAL 709,772 MEAN 1,945 MAX 34,200 MIN 141 CFSM 2.13 IN 29.92

## PEAK DISCHARGE (BASE, 10,000 CFS)

| DATE  | TIME | G.H.T. | DISCHARGE | DATE  | TIME | G.H.T. | DISCHARGE |
|-------|------|--------|-----------|-------|------|--------|-----------|
| 12-27 | 2200 | 33.95  | 22,600    | 04-14 | 1930 | 40.25  | 45,300    |
| 02-18 | 0200 | 26.31  | 11,500    |       |      |        |           |

02477990 Buckatunna Creek near Denham, Miss.

LOCATION.--Lat 31°41'38", long 88°31'10", in NE¼ sec.6, T.8 N., R.5 W., St. Stephens meridian, Wayne County, on right bank on downstream side of bridge on county road, 2.7 miles (4.3 km) north of Denham, and 8.7 miles (14.0 km) east of Waynesboro.

DRAINAGE AREA.--490 mi<sup>2</sup> (1,270 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--January 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 137.21 ft (41.822 m) above mean sea level (determined from flood profile levels). Nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum discharge, 11,500 ft<sup>3</sup>/s (325 m<sup>3</sup>/s) Apr. 16 (gage height, 33.81 ft or 10.305 m); minimum, 67 ft<sup>3</sup>/s (1.90 m<sup>3</sup>/s) Oct. 30, 31 (gage height, 4.57 ft or 1.393 m).  
Period of record: Maximum discharge, 11,500 ft<sup>3</sup>/s (325 m<sup>3</sup>/s) Apr. 16, 1974 (gage height, 33.81 ft or 10.305 m); minimum, 7.8 ft<sup>3</sup>/s (0.22 m<sup>3</sup>/s) Sept. 21-22 (gage height, 3.92 ft or 1.195 m).

REMARKS.--Records good. Records for chemical analyses for the current year are published in Part 2 of this report.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT   | NOV   | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL   | AUG   | SEP    |
|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|
| 1     | 624   | 85    | 672    | 5,670  | 2,550  | 875    | 1,510  | 580    | 247    | 117   | 126   | 564    |
| 2     | 1,110 | 81    | 478    | 4,180  | 2,250  | 820    | 3,050  | 531    | 319    | 108   | 97    | 662    |
| 3     | 722   | 94    | 334    | 3,030  | 1,890  | 773    | 3,960  | 503    | 366    | 101   | 137   | 850    |
| 4     | 428   | 103   | 494    | 2,990  | 1,420  | 720    | 2,960  | 474    | 286    | 95    | 173   | 1,020  |
| 5     | 481   | 121   | 910    | 3,170  | 1,150  | 674    | 2,320  | 562    | 266    | 95    | 162   | 993    |
| 6     | 454   | 119   | 865    | 3,320  | 1,020  | 639    | 2,100  | 505    | 463    | 135   | 137   | 1,040  |
| 7     | 281   | 166   | 870    | 3,240  | 1,780  | 608    | 1,970  | 470    | 880    | 126   | 200   | 1,080  |
| 8     | 193   | 218   | 684    | 2,800  | 1,920  | 575    | 1,550  | 406    | 1,200  | 135   | 234   | 2,920  |
| 9     | 162   | 194   | 456    | 2,320  | 1,700  | 544    | 1,070  | 356    | 1,360  | 166   | 669   | 4,150  |
| 10    | 144   | 167   | 358    | 2,000  | 1,460  | 518    | 908    | 322    | 1,500  | 148   | 315   | 3,740  |
| 11    | 128   | 176   | 310    | 1,890  | 1,240  | 500    | 783    | 364    | 1,620  | 115   | 200   | 3,390  |
| 12    | 104   | 164   | 279    | 2,400  | 1,020  | 641    | 945    | 639    | 1,050  | 101   | 157   | 3,120  |
| 13    | 94    | 144   | 259    | 2,120  | 890    | 925    | 6,170  | 739    | 520    | 86    | 130   | 3,000  |
| 14    | 88    | 128   | 243    | 1,920  | 795    | 983    | 7,460  | 820    | 529    | 77    | 423   | 2,730  |
| 15    | 85    | 117   | 241    | 2,250  | 888    | 885    | 7,150  | 720    | 408    | 74    | 1,070 | 1,280  |
| 16    | 92    | 115   | 295    | 2,170  | 1,720  | 686    | 11,100 | 492    | 340    | 117   | 788   | 641    |
| 17    | 104   | 108   | 257    | 2,070  | 1,790  | 573    | 10,200 | 364    | 281    | 86    | 544   | 514    |
| 18    | 148   | 104   | 241    | 1,900  | 1,660  | 516    | 7,660  | 324    | 421    | 106   | 332   | 421    |
| 19    | 320   | 104   | 236    | 1,650  | 1,870  | 586    | 5,630  | 299    | 1,360  | 119   | 360   | 348    |
| 20    | 297   | 104   | 1,190  | 2,380  | 2,110  | 1,310  | 4,220  | 265    | 810    | 103   | 443   | 297    |
| 21    | 189   | 155   | 1,200  | 3,580  | 2,320  | 1,430  | 3,020  | 236    | 368    | 83    | 529   | 261    |
| 22    | 139   | 257   | 985    | 3,100  | 2,970  | 1,480  | 1,750  | 326    | 257    | 88    | 395   | 230    |
| 23    | 115   | 340   | 945    | 2,690  | 2,840  | 1,230  | 1,400  | 684    | 223    | 254   | 234   | 203    |
| 24    | 101   | 426   | 778    | 2,600  | 2,520  | 1,120  | 1,360  | 843    | 234    | 500   | 173   | 180    |
| 25    | 92    | 412   | 790    | 2,900  | 2,120  | 935    | 1,400  | 1,000  | 238    | 301   | 153   | 169    |
| 26    | 83    | 295   | 3,570  | 2,980  | 1,620  | 744    | 1,360  | 960    | 220    | 200   | 135   | 207    |
| 27    | 77    | 268   | 4,380  | 2,970  | 1,200  | 2,020  | 1,170  | 768    | 194    | 176   | 117   | 311    |
| 28    | 72    | 691   | 3,750  | 3,000  | 975    | 2,370  | 885    | 472    | 166    | 151   | 106   | 571    |
| 29    | 70    | 602   | 5,870  | 3,110  | -----  | 1,890  | 741    | 399    | 142    | 131   | 99    | 878    |
| 30    | 69    | 669   | 8,590  | 2,920  | -----  | 1,720  | 643    | 330    | 128    | 124   | 101   | 1,120  |
| 31    | 76    | ----- | 7,420  | 2,740  | -----  | 1,630  | -----  | 272    | -----  | 395   | 299   | -----  |
| TOTAL | 7,142 | 6,727 | 47,950 | 86,060 | 47,688 | 30,920 | 96,445 | 16,025 | 16,396 | 4,613 | 9,038 | 36,890 |
| MEAN  | 230   | 224   | 1,547  | 2,776  | 1,703  | 997    | 3,215  | 517    | 547    | 149   | 292   | 1,230  |
| MAX   | 1,110 | 691   | 8,590  | 5,670  | 2,970  | 2,370  | 11,100 | 1,000  | 1,620  | 500   | 1,070 | 4,150  |
| MIN   | 69    | 81    | 236    | 1,650  | 795    | 500    | 643    | 236    | 128    | 74    | 97    | 169    |
| CFSM  | .47   | .46   | 3.16   | 5.67   | 3.48   | 2.03   | 6.56   | 1.06   | 1.12   | .30   | .60   | 2.51   |
| IN.   | .54   | .51   | 3.64   | 6.53   | 3.62   | 2.35   | 7.32   | 1.22   | 1.24   | .35   | .69   | 2.80   |

CAL YR 1973 TOTAL 391,234 MEAN 1,072 MAX 8,590 MIN 69 CFSM 2.19 IN 29.70  
WTR YR 1974 TOTAL 405,894 MEAN 1,112 MAX 11,100 MIN 69 CFSM 2.27 IN 30.81

## PEAK DISCHARGE (BASE, 4,000 CFS)

| DATE  | TIME | G.HT. | DISCHARGE | DATE  | TIME | G.HT. | DISCHARGE |
|-------|------|-------|-----------|-------|------|-------|-----------|
| 12-30 | 1130 | 29.64 | 8,780     | 04-16 | 1530 | 33.81 | 11,500    |
| 04-03 | 0130 | 20.49 | 4,340     | 09-09 | 0400 | 20.26 | 4,260     |

## PASCAGOULA RIVER BASIN

02478500 Chickasawhay River at Leakesville, Miss.

LOCATION.--Lat 31°08', long 88°33', in SW $\frac{1}{4}$  sec.12, T.2 N., R.6 W., St. Stephens meridian, Greene County, on left bank at downstream side of bridge on State Highway 63, 0.5 mile (0.8 km) southeast of Leakesville, 2 miles (3 km) upstream from Foulk ditch, and 29.1 miles (46.8 km) upstream from confluence with Leaf River.

DRAINAGE AREA.--2,680 mi<sup>2</sup> (6,940 km<sup>2</sup>), approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 51.13 ft (15.584 m) above mean sea level (levels by Corps of Engineers). Prior to Oct. 19, 1939, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--36 years, 3,696 ft<sup>3</sup>/s (104.7 m<sup>3</sup>/s), 18.73 in/yr (476 mm/yr).

EXTREMES.--Current year: Maximum discharge, 41,400 ft<sup>3</sup>/s (1,170 m<sup>3</sup>/s) Apr. 20 (gage height, 30.02 ft or 9.150 m); minimum, 660 ft<sup>3</sup>/s (18.69 m<sup>3</sup>/s) Oct. 30 (gage height, 9.05 ft or 2.758 m).  
Period of record: Maximum discharge, 73,600 ft<sup>3</sup>/s (2,080 m<sup>3</sup>/s) Feb. 28, 1961 (gage height, 33.52 ft or 10.217 m); minimum, 160 ft<sup>3</sup>/s (4.53 m<sup>3</sup>/s) Oct. 30, 31, 1963 (gage height, 6.74 ft or 2.054 m).

A flood in April 1900 reached a stage of 38 ft (11½ m), and a flood in July 1916 reached a stage of 31½ ft (9½ m), from information by local residents. The flood of Apr. 12, 1938, reached a stage of 34.12 ft (10.400 m), discharge, 68,000 ft<sup>3</sup>/s (1,950 m<sup>3</sup>/s), from information by Corps of Engineers.

REMARKS.--Records good. Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1504: 1938-39.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT    | NOV    | DEC     | JAN     | FEB     | MAR     | APR     | MAY     | JUN     | JUL    | AUG    | SEP     |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|--------|--------|---------|
| 1     | 1,310  | 721    | 2,970   | 26,100  | 16,200  | 5,870   | 7,540   | 5,090   | 1,850   | 1,230  | 1,460  | 1,750   |
| 2     | 1,820  | 767    | 2,810   | 29,600  | 14,700  | 5,320   | 7,250   | 4,770   | 2,100   | 1,150  | 1,500  | 3,500   |
| 3     | 2,500  | 792    | 2,200   | 30,100  | 13,100  | 4,970   | 9,400   | 4,530   | 2,450   | 1,080  | 1,100  | 4,530   |
| 4     | 2,350  | 800    | 1,900   | 28,800  | 10,900  | 4,710   | 12,100  | 4,310   | 2,330   | 1,020  | 958    | 4,590   |
| 5     | 2,050  | 883    | 2,460   | 26,600  | 8,380   | 4,520   | 13,200  | 4,170   | 2,510   | 933    | 1,090  | 4,450   |
| 6     | 1,800  | 1,000  | 3,200   | 23,800  | 6,690   | 4,330   | 12,800  | 4,430   | 3,290   | 1,020  | 1,460  | 4,130   |
| 7     | 1,530  | 1,070  | 3,190   | 20,800  | 6,700   | 4,170   | 11,800  | 3,990   | 4,750   | 1,170  | 1,380  | 3,610   |
| 8     | 1,290  | 1,110  | 3,150   | 17,700  | 10,200  | 4,010   | 11,100  | 3,350   | 5,560   | 1,370  | 1,160  | 9,250   |
| 9     | 1,080  | 1,280  | 2,630   | 14,600  | 11,100  | 3,890   | 9,940   | 2,940   | 7,860   | 1,250  | 1,110  | 15,500  |
| 10    | 979    | 1,500  | 1,990   | 12,100  | 10,200  | 3,800   | 6,460   | 2,640   | 9,230   | 1,120  | 1,940  | 16,300  |
| 11    | 930    | 1,270  | 1,650   | 10,800  | 9,250   | 3,710   | 4,580   | 2,470   | 8,400   | 1,100  | 1,740  | 16,000  |
| 12    | 844    | 1,120  | 1,480   | 10,400  | 8,350   | 3,940   | 3,970   | 2,830   | 6,770   | 1,020  | 1,220  | 14,500  |
| 13    | 776    | 1,050  | 1,370   | 10,700  | 6,980   | 4,720   | 9,030   | 4,390   | 4,150   | 942    | 1,020  | 11,200  |
| 14    | 748    | 971    | 1,300   | 10,800  | 5,950   | 5,210   | 19,800  | 5,920   | 3,460   | 893    | 1,000  | 7,290   |
| 15    | 736    | 929    | 1,250   | 10,500  | 5,320   | 5,100   | 27,100  | 5,520   | 3,590   | 841    | 1,230  | 5,310   |
| 16    | 824    | 966    | 1,260   | 10,600  | 5,620   | 4,640   | 30,200  | 4,100   | 2,730   | 833    | 2,590  | 3,970   |
| 17    | 957    | 950    | 1,290   | 11,000  | 7,550   | 3,860   | 30,300  | 3,110   | 2,560   | 909    | 2,740  | 2,710   |
| 18    | 1,070  | 868    | 1,260   | 10,800  | 9,620   | 3,290   | 32,800  | 2,650   | 2,390   | 899    | 1,920  | 2,210   |
| 19    | 1,170  | 818    | 1,250   | 10,400  | 10,900  | 2,990   | 38,200  | 2,420   | 2,550   | 858    | 1,490  | 1,920   |
| 20    | 1,450  | 784    | 2,700   | 10,700  | 11,500  | 3,030   | 41,100  | 2,270   | 3,540   | 858    | 1,460  | 1,700   |
| 21    | 1,410  | 848    | 4,710   | 12,900  | 12,400  | 4,500   | 39,600  | 2,100   | 3,190   | 859    | 1,690  | 1,550   |
| 22    | 1,150  | 1,100  | 4,690   | 14,400  | 13,400  | 5,580   | 35,300  | 1,970   | 2,500   | 855    | 1,700  | 1,450   |
| 23    | 952    | 1,320  | 4,680   | 14,700  | 14,400  | 5,530   | 29,900  | 2,160   | 2,200   | 851    | 1,530  | 1,500   |
| 24    | 852    | 1,750  | 4,620   | 14,100  | 15,100  | 5,390   | 22,900  | 3,470   | 1,880   | 941    | 1,230  | 1,290   |
| 25    | 788    | 2,050  | 3,970   | 14,000  | 14,500  | 4,780   | 15,000  | 4,780   | 1,710   | 1,290  | 1,000  | 1,170   |
| 26    | 748    | 1,890  | 5,900   | 14,700  | 12,500  | 4,620   | 10,500  | 4,180   | 1,780   | 1,350  | 882    | 1,120   |
| 27    | 716    | 1,610  | 13,000  | 15,100  | 9,790   | 7,490   | 9,270   | 3,170   | 2,030   | 1,230  | 828    | 1,530   |
| 28    | 692    | 1,860  | 16,200  | 15,100  | 7,200   | 10,700  | 8,060   | 2,690   | 1,900   | 1,170  | 793    | 2,250   |
| 29    | 676    | 2,670  | 18,300  | 15,300  | -----   | 11,300  | 6,510   | 2,330   | 1,530   | 1,050  | 902    | 2,950   |
| 30    | 665    | 2,930  | 20,600  | 16,500  | -----   | 10,500  | 5,600   | 2,220   | 1,340   | 1,030  | 915    | 2,940   |
| 31    | 681    | -----  | 22,900  | 16,900  | -----   | 8,710   | -----   | 2,070   | -----   | 972    | 919    | -----   |
| TOTAL | 35,544 | 37,677 | 160,880 | 500,600 | 288,700 | 155,280 | 521,410 | 107,020 | 102,430 | 32,204 | 41,857 | 152,250 |
| MEAN  | 1,147  | 1,256  | 5,190   | 16,150  | 10,310  | 5,332   | 17,380  | 3,452   | 3,414   | 1,039  | 1,350  | 5,075   |
| MAX   | 2,500  | 2,930  | 22,900  | 30,100  | 16,200  | 11,300  | 41,100  | 5,920   | 8,400   | 1,370  | 2,740  | 16,300  |
| MIN   | 665    | 721    | 1,250   | 10,400  | 5,320   | 2,990   | 3,970   | 1,970   | 1,340   | 833    | 793    | 1,120   |
| CFSM  | .43    | .47    | 1.94    | 6.03    | 3.85    | 1.99    | 6.49    | 1.29    | 1.27    | .39    | .50    | 1.39    |
| IN.   | .49    | .52    | 2.23    | 6.95    | 4.01    | 2.29    | 7.24    | 1.49    | 1.42    | .45    | .58    | 2.11    |

CAL YR 1973 TOTAL 2,056,141 MEAN 5.633 MAX 23,700 MIN 665 CFSM 2.10 IN 28.54  
WTR YR 1974 TOTAL 2,145,852 MEAN 5.879 MAX 41,100 MIN 665 CFSM 2.19 IN 29.79

## PASCAGOULA RIVER BASIN

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02479000 Pascagoula River at Merrill, Miss.

LOCATION.--Lat 30°58'40", long 88°43'35", in SW¼ sec.18, T.1 S., R.7 W., St. Stephens meridian, George County, near right bank on downstream side of bridge on highway between Merrill and Avent, 0.5 mile (0.8 km) downstream from confluence of Leaf and Chickasawhay Rivers, 0.5 mile (0.8 km) west of Merrill, and at mile 80.8 (130 km).

DRAINAGE AREA.--6,600 mi<sup>2</sup> (17,100 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--October 1930 to current year. Monthly discharge only for October and November 1930, published in WSP 1304. 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 (8.001 m) above mean sea level. Prior to Dec. 6, 1934, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--44 years, 9,523 ft<sup>3</sup>/s (269.7 m<sup>3</sup>/s), 19.59 in/yr (498 mm/yr).

EXTREMES.--Current year: Maximum discharge, 139,000 ft<sup>3</sup>/s (3,936 m<sup>3</sup>/s) Apr. 19 (gage height, 28.37 ft or 8.647 m, from floodmark); minimum observed, 1,800 ft<sup>3</sup>/s (51.0 m<sup>3</sup>/s) Oct. 30 (gage height, 4.00 ft or 1.219 m). Period of record: Maximum discharge, 178,000 ft<sup>3</sup>/s (5,040 m<sup>3</sup>/s) Feb. 27, 1961 (gage height, 30.66 ft or 9.345 m); minimum, 696 ft<sup>3</sup>/s (19.7 m<sup>3</sup>/s) Nov. 3, 1936; minimum gage height, 1.92 ft (0.585 m) Oct. 21-26, 1963.

A flood in April 1900 reached a stage of 32.5 ft (9.91 m), and the flood of July 9, 1916, reached a stage of 31.0 ft (9.45 m), from information by National Weather Service.

REMARKS.--Records good.

## DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT    | NOV     | DEC     | JAN      | FEB     | MAR     | APR      | MAY     | JUN     | JUL    | AUG     | SEP     |
|-------|--------|---------|---------|----------|---------|---------|----------|---------|---------|--------|---------|---------|
| 1     | 3,690  | 2,010   | 8,760   | 78,900   | 46,500  | 14,400  | 29,200   | 9,960   | 5,230   | 3,580  | 3,470   | 4,570   |
| 2     | 4,640  | 2,120   | 7,910   | 72,000   | 44,100  | 11,800  | 23,600   | 9,160   | 5,750   | 3,320  | 3,920   | 8,430   |
| 3     | 6,670  | 2,170   | 6,580   | 66,800   | 40,100  | 10,800  | 22,100   | 8,670   | 7,130   | 3,190  | 3,940   | 13,200  |
| 4     | 6,770  | 2,170   | 5,670   | 61,800   | 36,200  | 10,100  | 24,000   | 8,350   | 6,790   | 3,080  | 3,390   | 15,100  |
| 5     | 5,770  | 2,580   | 7,370   | 57,600   | 29,200  | 9,700   | 27,200   | 8,320   | 6,650   | 2,970  | 4,040   | 14,300  |
| 6     | 4,910  | 3,900   | 8,650   | 53,300   | 21,800  | 9,310   | 29,100   | 9,070   | 8,060   | 2,970  | 4,300   | 12,400  |
| 7     | 4,080  | 4,980   | 8,860   | 48,400   | 18,300  | 8,960   | 29,200   | 9,770   | 8,810   | 3,130  | 4,060   | 10,100  |
| 8     | 3,500  | 4,740   | 8,030   | 43,900   | 22,300  | 8,640   | 27,300   | 9,380   | 12,500  | 3,360  | 3,920   | 18,400  |
| 9     | 3,060  | 4,250   | 7,240   | 39,000   | 27,300  | 8,320   | 24,100   | 8,380   | 15,900  | 3,500  | 3,750   | 27,400  |
| 10    | 2,810  | 4,060   | 5,980   | 35,300   | 29,100  | 8,030   | 19,800   | 7,440   | 17,900  | 3,220  | 3,850   | 33,200  |
| 11    | 2,740  | 4,080   | 5,020   | 30,700   | 26,700  | 7,790   | 13,500   | 6,780   | 18,500  | 2,980  | 4,390   | 36,600  |
| 12    | 2,650  | 4,220   | 4,460   | 26,700   | 22,700  | 8,510   | 9,970    | 9,040   | 17,500  | 2,850  | 3,840   | 38,500  |
| 13    | 2,640  | 3,750   | 4,130   | 26,000   | 19,000  | 10,700  | 18,100   | 12,900  | 15,100  | 2,670  | 3,280   | 37,200  |
| 14    | 2,530  | 3,360   | 3,900   | 26,800   | 15,500  | 13,100  | 36,600   | 18,700  | 11,600  | 2,550  | 3,080   | 31,100  |
| 15    | 2,350  | 3,060   | 3,770   | 27,100   | 13,100  | 14,000  | 55,500   | 19,400  | 8,960   | 2,500  | 3,360   | 22,100  |
| 16    | 2,280  | 2,980   | 3,770   | 25,700   | 12,500  | 12,800  | 72,600   | 16,700  | 8,210   | 2,650  | 5,580   | 13,900  |
| 17    | 2,450  | 3,050   | 3,900   | 24,000   | 15,700  | 11,200  | 99,500   | 12,800  | 7,300   | 2,770  | 6,480   | 9,120   |
| 18    | 2,760  | 2,910   | 3,790   | 22,700   | 20,200  | 9,310   | 130,000  | 9,530   | 6,490   | 3,060  | 5,620   | 7,000   |
| 19    | 3,080  | 2,710   | 3,630   | 20,400   | 23,500  | 8,060   | 134,000  | 7,780   | 5,890   | 2,850  | 5,380   | 6,010   |
| 20    | 3,380  | 2,560   | 6,880   | 22,900   | 26,000  | 7,670   | 112,000  | 6,700   | 6,360   | 2,630  | 5,400   | 5,380   |
| 21    | 3,440  | 2,700   | 12,900  | 28,100   | 28,500  | 9,230   | 92,300   | 6,110   | 6,590   | 2,550  | 5,940   | 4,920   |
| 22    | 3,040  | 3,710   | 13,600  | 31,800   | 30,000  | 12,600  | 74,900   | 5,720   | 5,920   | 2,610  | 5,480   | 4,620   |
| 23    | 2,590  | 4,940   | 12,800  | 34,000   | 30,600  | 12,600  | 58,800   | 5,790   | 5,260   | 2,670  | 4,860   | 4,400   |
| 24    | 2,340  | 5,550   | 11,900  | 35,400   | 30,700  | 12,500  | 46,500   | 9,860   | 4,780   | 3,050  | 4,150   | 4,150   |
| 25    | 2,130  | 5,830   | 10,900  | 37,600   | 29,300  | 11,800  | 38,200   | 14,900  | 4,790   | 3,480  | 3,420   | 3,820   |
| 26    | 2,020  | 5,810   | 16,000  | 40,400   | 26,800  | 11,400  | 31,300   | 15,600  | 5,720   | 3,770  | 2,920   | 3,640   |
| 27    | 1,960  | 5,180   | 28,400  | 42,900   | 23,700  | 18,700  | 23,900   | 11,300  | 5,590   | 3,790  | 2,640   | 3,610   |
| 28    | 1,890  | 5,500   | 36,700  | 44,700   | 19,300  | 28,800  | 17,900   | 8,360   | 5,240   | 3,920  | 2,550   | 4,460   |
| 29    | 1,870  | 7,880   | 48,900  | 45,800   | -----   | 33,700  | 13,900   | 6,960   | 4,560   | 4,400  | 2,590   | 5,340   |
| 30    | 1,800  | 9,120   | 70,400  | 46,800   | -----   | 35,200  | 11,400   | 6,140   | 3,940   | 4,420  | 2,880   | 5,840   |
| 31    | 1,810  | -----   | 82,200  | 47,400   | -----   | 33,900  | -----    | 5,670   | -----   | 3,830  | 3,460   | -----   |
| TOTAL | 97,650 | 121,880 | 463,000 | 1,244,9M | 728,700 | 423,630 | 1,346,5M | 305,240 | 253,020 | 98,320 | 125,940 | 408,810 |
| MEAN  | 3,150  | 4,063   | 14,940  | 40,160   | 26,030  | 13,670  | 44,880   | 9,846   | 8,434   | 3,172  | 4,063   | 13,630  |
| MAX   | 6,770  | 9,120   | 82,200  | 78,900   | 46,500  | 35,200  | 134,000  | 19,400  | 18,500  | 4,420  | 6,480   | 38,500  |
| MIN   | 1,800  | 2,010   | 3,630   | 20,400   | 12,500  | 7,670   | 9,970    | 5,670   | 3,940   | 2,500  | 2,550   | 3,610   |
| CFSM  | .48    | .62     | 2.26    | 6.08     | 3.94    | 2.07    | 6.80     | 1.49    | 1.28    | .48    | .62     | 2.07    |
| IN.   | .55    | .69     | 2.61    | 7.02     | 4.11    | 2.39    | 7.59     | 1.72    | 1.43    | .55    | .71     | 2.30    |

CAL YR 1973 TOTAL 5,334,100 MEAN 14,610 MAX 82,200 MIN 1,800 CFSM 2.21 IN 30.06  
WTR YR 1974 TOTAL 5,617,560 MEAN 15,390 MAX 134,000 MIN 1,800 CFSM 2.33 IN 31.66

Note:-- No gage-height record Apr. 17-24.



## PASCAGOULA RIVER BASIN

02479130 Black Creek near Brooklyn, Miss.

LOCATION.--Lat 31°03'06", long 89°12'16", in NW¼NE¼ sec.16, T.1 N., R.12 W., St. Stephens meridian, Forrest County, at bridge on U.S. Highway 49, 1.1 miles (1.8 km) southwest of Brooklyn, and 4.5 miles (7.2 km) upstream from Chaney Creek.

DRAINAGE AREA.--361 mi<sup>2</sup> (935 km<sup>2</sup>).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1954-57, 1959, 1964-66. October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 128.14 ft (39.057 m) above mean sea level (Mississippi State Highway Department bench mark).

EXTREMES.--Current year: Maximum discharge, 20,500 ft<sup>3</sup>/s (581 m<sup>3</sup>/s) Apr. 14 (gage height, 25.32 ft or 7.718 m, from floodmark); minimum, 140 ft<sup>3</sup>/s (3.96 m<sup>3</sup>/s) Oct. 27, 28, 29 (gage height, 4.29 ft or 1.308 m).  
Period of record: Maximum discharge, 20,500 ft<sup>3</sup>/s (581 m<sup>3</sup>/s) Apr. 14, 1974 (gage height, 25.32 ft or 7.718 m, from floodmark); minimum, 86 ft<sup>3</sup>/s (2.44 m<sup>3</sup>/s), part of each day Oct. 13-19 (gage height, 3.80 ft or 1.158 m).  
Flood of Feb. 18, 1961, reached a stage of 25.70 ft (7.833 m), discharge, 21,500 ft<sup>3</sup>/s (609 m<sup>3</sup>/s).

REMARKS.--Records good. Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS.--WRD Miss. 1971: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY         | OCT           | NOV    | DEC      | JAN    | FEB        | MAR    | APR     | MAY    | JUN       | JUL   | AUG      | SEP    |
|-------------|---------------|--------|----------|--------|------------|--------|---------|--------|-----------|-------|----------|--------|
| 1           | 338           | 238    | 499      | 1,680  | 1,240      | 523    | 1,240   | 484    | 308       | 183   | 227      | 502    |
| 2           | 472           | 242    | 441      | 1,320  | 1,490      | 514    | 1,610   | 466    | 505       | 175   | 212      | 463    |
| 3           | 682           | 227    | 346      | 1,120  | 2,210      | 490    | 1,480   | 455    | 435       | 210   | 250      | 574    |
| 4           | 390           | 210    | 602      | 1,300  | 1,590      | 472    | 1,220   | 449    | 374       | 242   | 413      | 502    |
| 5           | 275           | 795    | 959      | 1,290  | 1,280      | 458    | 1,180   | 924    | 407       | 234   | 589      | 385    |
| 6           | 225           | 940    | 618      | 1,200  | 1,060      | 441    | 966     | 924    | 490       | 304   | 634      | 402    |
| 7           | 198           | 666    | 460      | 1,240  | 2,470      | 418    | 795     | 647    | 508       | 353   | 1,010    | 834    |
| 8           | 181           | 568    | 396      | 1,200  | 2,610      | 399    | 871     | 520    | 418       | 316   | 845      | 3,530  |
| 9           | 172           | 514    | 333      | 1,010  | 1,850      | 385    | 767     | 432    | 353       | 242   | 702      | 4,910  |
| 10          | 184           | 427    | 294      | 890    | 1,520      | 377    | 621     | 388    | 301       | 210   | 532      | 4,350  |
| 11          | 210           | 316    | 273      | 886    | 1,280      | 388    | 532     | 1,450  | 296       | 183   | 320      | 2,660  |
| 12          | 216           | 262    | 258      | 1,360  | 1,070      | 978    | 970     | 2,500  | 264       | 163   | 234      | 1,560  |
| 13          | 212           | 236    | 254      | 1,330  | 879        | 951    | 7,580   | 1,540  | 258       | 195   | 296      | 1,040  |
| 14          | 189           | 223    | 248      | 1,220  | 764        | 709    | 18,300  | 1,110  | 520       | 210   | 1,600    | 653    |
| 15          | 180           | 216    | 273      | 1,070  | 733        | 615    | 12,100  | 781    | 490       | 170   | 608      | 496    |
| 16          | 188           | 269    | 356      | 970    | 1,220      | 592    | 6,490   | 574    | 364       | 294   | 335      | 421    |
| 17          | 338           | 311    | 338      | 852    | 1,090      | 496    | 3,530   | 449    | 280       | 201   | 308      | 366    |
| 18          | 390           | 246    | 294      | 730    | 943        | 410    | 2,100   | 421    | 252       | 184   | 435      | 325    |
| 19          | 289           | 223    | 282      | 676    | 978        | 396    | 1,530   | 544    | 928       | 180   | 466      | 292    |
| 20          | 234           | 210    | 1,750    | 3,010  | 1,040      | 432    | 1,220   | 385    | 647       | 172   | 446      | 264    |
| 21          | 193           | 418    | 1,280    | 2,210  | 936        | 1,480  | 1,010   | 361    | 359       | 379   | 353      | 248    |
| 22          | 170           | 676    | 890      | 1,520  | 1,740      | 1,050  | 894     | 631    | 273       | 852   | 258      | 240    |
| 23          | 160           | 605    | 719      | 1,330  | 1,090      | 806    | 928     | 1,220  | 248       | 361   | 210      | 223    |
| 24          | 152           | 523    | 618      | 1,930  | 827        | 631    | 883     | 824    | 452       | 628   | 181      | 214    |
| 25          | 148           | 427    | 2,160    | 2,930  | 723        | 634    | 777     | 806    | 444       | 574   | 166      | 210    |
| 26          | 144           | 410    | 6,810    | 3,770  | 682        | 1,310  | 699     | 1,110  | 318       | 323   | 178      | 217    |
| 27          | 141           | 379    | 10,100   | 2,260  | 589        | 6,580  | 631     | 852    | 248       | 246   | 273      | 246    |
| 28          | 141           | 1,170  | 10,400   | 1,980  | 541        | 7,120  | 574     | 517    | 217       | 612   | 366      | 244    |
| 29          | 142           | 981    | 4,930    | 2,400  | -----      | 4,090  | 535     | 396    | 198       | 396   | 410      | 244    |
| 30          | 136           | 644    | 2,330    | 2,120  | -----      | 2,240  | 508     | 351    | 186       | 238   | 361      | 267    |
| 31          | 166           | -----  | 1,630    | 1,570  | -----      | 1,580  | -----   | 316    | -----     | 212   | 586      | -----  |
| TOTAL       | 7,256         | 13,572 | 51,141   | 48,374 | 34,445     | 37,965 | 72,541  | 22,827 | 11,341    | 9,242 | 13,804   | 26,882 |
| MEAN        | 234           | 452    | 1,650    | 1,560  | 1,230      | 1,225  | 2,418   | 736    | 378       | 298   | 445      | 896    |
| MAX         | 682           | 1,170  | 10,400   | 3,770  | 2,610      | 7,120  | 18,300  | 2,500  | 928       | 852   | 1,600    | 4,910  |
| MIN         | 136           | 210    | 248      | 676    | 541        | 377    | 508     | 316    | 186       | 163   | 166      | 210    |
| CFSM        | .65           | 1.25   | 4.57     | 4.32   | 3.41       | 3.39   | 6.70    | 2.04   | 1.05      | .83   | 1.23     | 2.48   |
| IN.         | .75           | 1.40   | 5.27     | 4.98   | 3.55       | 3.91   | 7.48    | 2.35   | 1.17      | .95   | 1.42     | 2.77   |
| CAL YR 1973 | TOTAL 285,799 |        | MEAN 783 |        | MAX 10,400 |        | MIN 116 |        | CFSM 2.17 |       | IN 29.45 |        |
| WTR YR 1974 | TOTAL 349,390 |        | MEAN 957 |        | MAX 18,300 |        | MIN 136 |        | CFSM 2.65 |       | IN 36.00 |        |

## PEAK DISCHARGE (BASE, 3,500 CFS)

Note:-- No gage-height record  
Apr. 12-15.

| DATE  | TIME | G.H.T. | DISCHARGE | DATE  | TIME    | G.H.T. | DISCHARGE |
|-------|------|--------|-----------|-------|---------|--------|-----------|
| 12-27 | 2400 | 22.47  | 12,800    | 03-27 | 2200    | 19.49  | 8,090     |
| 01-20 | 1500 | 13.80  | 4,080     | 04-14 | Unknown | 25.32  | 20,500    |
| 01-26 | 0130 | 15.23  | 4,940     | 09-09 | 1830    | 15.75  | 5,250     |

† From floodmark.

## PASCAGOULA RIVER BASIN

61

02479155 Cypress Creek near Janice, Miss.  
(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, on right bank at downstream side of bridge on State Highway 29, 1.2 miles (1.9 km) east of Janice, and 5.5 miles (8.8 km) upstream from mouth.

DRAINAGE AREA.--52.2 mi<sup>2</sup> (135 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Altitude of gage is 110 ft or 34 m (from topographic map).

AVERAGE DISCHARGE.--8 years, 84.9 ft<sup>3</sup>/s (2.404 m<sup>3</sup>/s), 22.09 in/yr (561 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,550 ft<sup>3</sup>/s (101 m<sup>3</sup>/s) Apr. 13 (gage height, 21.42 ft or 6.529 m); minimum, 13 ft<sup>3</sup>/s (0.37 m<sup>3</sup>/s), part of each day July 13-15, Aug. 24, 25 (gage height, 5.82 ft or 1.774 m).

Period of record: Maximum discharge, 7,720 ft<sup>3</sup>/s (219 m<sup>3</sup>/s) Apr. 13, 1969 (gage height, 26.01 ft or 7.928 m); minimum, 4.5 ft<sup>3</sup>/s (0.13 m<sup>3</sup>/s) Sept. 2, 3, 1968.

Flood of June 1, 1959, reached a stage of 32.06 ft or 9.772 m (discharge, 22,800 ft<sup>3</sup>/s or 646 m<sup>3</sup>/s).

REMARKS.--Records good. Records of chemical analyses for the current year are published in Part 2 of this report.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL  | AUG  | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|
| 1     | 38    | 36    | 50    | 428   | 181   | 64    | 98    | 53    | 23    | 15   | 19   | 50    |
| 2     | 110   | 25    | 42    | 209   | 195   | 62    | 249   | 52    | 45    | 15   | 33   | 197   |
| 3     | 569   | 20    | 39    | 278   | 323   | 60    | 201   | 51    | 49    | 14   | 57   | 262   |
| 4     | 149   | 19    | 148   | 569   | 199   | 58    | 117   | 48    | 30    | 14   | 30   | 108   |
| 5     | 61    | 146   | 183   | 283   | 139   | 57    | 93    | 62    | 36    | 17   | 49   | 44    |
| 6     | 42    | 121   | 78    | 178   | 132   | 54    | 73    | 59    | 53    | 23   | 32   | 32    |
| 7     | 34    | 55    | 53    | 208   | 495   | 51    | 66    | 48    | 34    | 24   | 23   | 164   |
| 8     | 29    | 41    | 44    | 201   | 450   | 48    | 148   | 41    | 26    | 30   | 35   | 993   |
| 9     | 27    | 37    | 41    | 138   | 218   | 46    | 138   | 38    | 25    | 20   | 37   | 649   |
| 10    | 40    | 34    | 39    | 117   | 160   | 46    | 75    | 37    | 43    | 16   | 25   | 231   |
| 11    | 37    | 27    | 36    | 128   | 135   | 52    | 62    | 84    | 87    | 15   | 18   | 96    |
| 12    | 30    | 24    | 35    | 191   | 118   | 351   | 69    | 167   | 38    | 14   | 16   | 59    |
| 13    | 30    | 23    | 35    | 121   | 108   | 239   | 2,760 | 70    | 26    | 14   | 17   | 47    |
| 14    | 27    | 22    | 32    | 97    | 102   | 98    | 2,640 | 44    | 49    | 14   | 38   | 36    |
| 15    | 26    | 22    | 40    | 89    | 99    | 71    | 1,050 | 37    | 67    | 14   | 39   | 31    |
| 16    | 28    | 34    | 48    | 83    | 157   | 65    | 567   | 35    | 36    | 86   | 35   | 27    |
| 17    | 38    | 36    | 39    | 78    | 125   | 57    | 251   | 32    | 25    | 35   | 38   | 24    |
| 18    | 31    | 28    | 33    | 73    | 94    | 51    | 178   | 30    | 22    | 21   | 52   | 21    |
| 19    | 23    | 24    | 37    | 92    | 115   | 51    | 144   | 30    | 34    | 30   | 26   | 19    |
| 20    | 21    | 23    | 544   | 1,560 | 107   | 60    | 122   | 29    | 37    | 23   | 18   | 17    |
| 21    | 20    | 95    | 302   | 689   | 88    | 478   | 105   | 31    | 25    | 18   | 16   | 16    |
| 22    | 19    | 127   | 115   | 227   | 171   | 348   | 102   | 40    | 21    | 16   | 15   | 16    |
| 23    | 19    | 62    | 83    | 174   | 115   | 120   | 165   | 64    | 19    | 15   | 14   | 15    |
| 24    | 18    | 43    | 81    | 344   | 84    | 86    | 117   | 46    | 21    | 64   | 14   | 14    |
| 25    | 18    | 61    | 150   | 567   | 72    | 115   | 86    | 34    | 19    | 51   | 14   | 14    |
| 26    | 17    | 78    | 1,540 | 531   | 67    | 281   | 74    | 32    | 17    | 25   | 16   | 15    |
| 27    | 17    | 55    | 647   | 338   | 66    | 1,520 | 67    | 35    | 16    | 20   | 16   | 18    |
| 28    | 16    | 164   | 209   | 343   | 65    | 885   | 62    | 30    | 16    | 19   | 16   | 17    |
| 29    | 16    | 129   | 166   | 502   | ----- | 279   | 58    | 26    | 15    | 18   | 22   | 15    |
| 30    | 15    | 66    | 232   | 626   | ----- | 161   | 55    | 24    | 15    | 16   | 26   | 14    |
| 31    | 22    | ----- | 319   | 257   | ----- | 114   | ----- | 23    | ----- | 18   | 27   | ----- |
| TOTAL | 1,587 | 1,677 | 5,440 | 9,719 | 4,380 | 6,028 | 9,992 | 1,432 | 969   | 734  | 833  | 3,261 |
| MEAN  | 51.2  | 55.9  | 175   | 314   | 156   | 194   | 333   | 46.2  | 32.3  | 23.7 | 26.9 | 109   |
| MAX   | 569   | 164   | 1,540 | 1,560 | 495   | 1,520 | 2,760 | 167   | 87    | 86   | 57   | 993   |
| MIN   | 15    | 19    | 32    | 73    | 65    | 46    | 55    | 23    | 15    | 14   | 14   | 14    |
| CFSM  | .98   | 1.07  | 3.35  | 6.02  | 2.99  | 3.72  | 6.38  | .89   | .62   | .45  | .52  | 2.09  |
| IN.   | 1.13  | 1.20  | 3.88  | 6.93  | 3.12  | 4.30  | 7.12  | 1.02  | .69   | .52  | .59  | 2.32  |

CAL YR 1973 TOTAL 42,215 MEAN 116 MAX 2,780 MIN 12 CFSM 2.22 IN 30.08  
WTR YR 1974 TOTAL 46,052 MEAN 126 MAX 2,760 MIN 14 CFSM 2.41 IN 32.82

## PEAK DISCHARGE (BASE, 1,200 CFS)

| DATE  | TIME | G.HT. | DISCHARGE | DATE  | TIME | G.HT. | DISCHARGE |
|-------|------|-------|-----------|-------|------|-------|-----------|
| 12-26 | 1230 | 16.66 | 1,860     | 04-13 | 2300 | 21.42 | 3,550     |
| 01-20 | 1730 | 17.19 | 1,970     | 09-08 | 1130 | 13.50 | 1,260     |
| 03-27 | 1730 | 16.94 | 1,920     |       |      |       |           |

## PASCAGOULA RIVER BASIN

02479160 Black Creek near Wiggins, Miss.

LOCATION.--Lat 30°51'12", long 88°54'49", in SW¼ sec.20, T.2 S., R.9 W., St. Stephens meridian, Stone County, on left bank on downstream side of bridge on State Highway 26, 1.7 miles (2.7 km) downstream from Flat Branch, 8.6 miles (13.8 km) upstream from Sweetwater Creek, and 13.4 miles (21.6 km) east of Wiggins.

DRAINAGE AREA.--730 mi<sup>2</sup> (1,890 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--Occasional discharge measurements 1956, 1957, 1959, 1960. October 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 48.89 ft (14.902 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 25,000 ft<sup>3</sup>/s (708 m<sup>3</sup>/s) Apr. 15 (gage height, 25.55 ft or 7.788 m); minimum, 304 ft<sup>3</sup>/s (8.61 m<sup>3</sup>/s) Oct. 28 (gage height, 4.71 ft or 1.436 m).

Period of record: Maximum discharge, 25,000 ft<sup>3</sup>/s (708 m<sup>3</sup>/s) Apr. 15, 1974 (gage height, 25.55 ft or 7.788 m); minimum, 164 ft<sup>3</sup>/s (4.64 m<sup>3</sup>/s) Oct. 19, 20, 1972 (gage height, 3.80 ft or 1.158 m).

A flood (believed to be that of July 1916) reached a stage of 30.5 ft or 9.30 m, from Mississippi State Highway Department plans. The flood of June 3, 1959, reached a stage of 25.88 ft (7.888 m), and the flood of Feb. 19, 1961, 25.83 ft or 7.873 m (from floodmarks); discharge, about 26,000 ft<sup>3</sup>/s (736 m<sup>3</sup>/s), based on peak data at sites upstream and downstream.

REMARKS.--Records fair.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT    | NOV    | DEC    | JAN     | FEB    | MAR    | APR     | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------|--------|--------|--------|---------|--------|--------|---------|--------|--------|--------|--------|--------|
| 1     | 664    | 437    | 971    | 5,190   | 3,270  | 1,080  | 3,000   | 1,050  | 636    | 416    | 494    | 788    |
| 2     | 650    | 470    | 821    | 3,880   | 2,450  | 1,050  | 2,630   | 1,020  | 816    | 408    | 559    | 1,080  |
| 3     | 1,310  | 448    | 733    | 2,640   | 3,450  | 1,030  | 3,410   | 1,020  | 1,120  | 401    | 784    | 2,020  |
| 4     | 1,340  | 419    | 946    | 3,810   | 4,060  | 993    | 2,620   | 977    | 842    | 417    | 663    | 1,600  |
| 5     | 768    | 812    | 1,740  | 3,320   | 2,800  | 963    | 2,120   | 1,120  | 723    | 463    | 781    | 914    |
| 6     | 578    | 1,690  | 1,450  | 2,550   | 2,220  | 933    | 1,870   | 1,680  | 805    | 516    | 864    | 680    |
| 7     | 493    | 1,340  | 994    | 2,380   | 3,370  | 899    | 1,570   | 1,420  | 855    | 588    | 1,060  | 875    |
| 8     | 444    | 946    | 839    | 2,620   | 5,680  | 864    | 1,530   | 1,110  | 802    | 612    | 1,350  | 3,910  |
| 9     | 416    | 830    | 768    | 2,180   | 5,670  | 828    | 1,850   | 959    | 745    | 539    | 1,180  | 6,580  |
| 10    | 432    | 780    | 676    | 1,870   | 3,600  | 807    | 1,400   | 871    | 654    | 460    | 916    | 8,040  |
| 11    | 446    | 673    | 617    | 1,670   | 2,610  | 783    | 1,170   | 884    | 737    | 419    | 710    | 8,640  |
| 12    | 451    | 562    | 584    | 1,940   | 2,190  | 1,420  | 1,070   | 2,810  | 676    | 390    | 534    | 6,620  |
| 13    | 451    | 500    | 565    | 2,160   | 1,890  | 2,200  | 5,340   | 3,790  | 595    | 372    | 455    | 2,860  |
| 14    | 446    | 468    | 554    | 1,950   | 1,660  | 1,560  | 10,600  | 2,150  | 843    | 393    | 838    | 1,660  |
| 15    | 414    | 453    | 568    | 1,790   | 1,520  | 1,170  | 19,900  | 1,490  | 1,140  | 404    | 1,640  | 1,300  |
| 16    | 401    | 463    | 650    | 1,630   | 1,830  | 1,050  | 21,000  | 1,170  | 903    | 574    | 831    | 1,020  |
| 17    | 432    | 536    | 699    | 1,500   | 2,180  | 999    | 13,500  | 965    | 679    | 659    | 606    | 882    |
| 18    | 573    | 554    | 650    | 1,360   | 1,790  | 873    | 10,700  | 849    | 584    | 478    | 662    | 782    |
| 19    | 581    | 483    | 608    | 1,260   | 1,730  | 806    | 6,690   | 866    | 661    | 445    | 758    | 703    |
| 20    | 485    | 448    | 2,130  | 3,420   | 1,840  | 850    | 3,330   | 958    | 1,420  | 419    | 690    | 638    |
| 21    | 425    | 533    | 4,020  | 7,400   | 1,680  | 1,530  | 2,400   | 833    | 927    | 414    | 619    | 601    |
| 22    | 380    | 1,100  | 2,330  | 6,760   | 1,960  | 3,390  | 2,040   | 808    | 670    | 940    | 532    | 785    |
| 23    | 350    | 1,080  | 1,450  | 3,260   | 2,580  | 1,920  | 2,070   | 1,380  | 564    | 928    | 458    | 608    |
| 24    | 334    | 893    | 1,220  | 2,960   | 1,720  | 1,330  | 2,070   | 1,620  | 543    | 707    | 411    | 501    |
| 25    | 325    | 794    | 1,260  | 4,700   | 1,410  | 1,150  | 1,740   | 1,190  | 698    | 1,120  | 386    | 533    |
| 26    | 313    | 791    | 4,680  | 6,330   | 1,270  | 1,500  | 1,540   | 1,220  | 644    | 762    | 379    | 494    |
| 27    | 308    | 759    | 8,640  | 7,970   | 1,220  | 4,950  | 1,400   | 1,420  | 540    | 549    | 395    | 516    |
| 28    | 308    | 1,170  | 10,200 | 7,020   | 1,130  | 8,790  | 1,270   | 1,140  | 482    | 498    | 472    | 542    |
| 29    | 308    | 1,970  | 10,900 | 5,260   | -----  | 10,500 | 1,160   | 850    | 450    | 761    | 563    | 522    |
| 30    | 308    | 1,360  | 10,800 | 6,060   | -----  | 10,100 | 1,100   | 734    | 431    | 575    | 618    | 506    |
| 31    | 344    | -----  | 8,420  | 5,470   | -----  | 6,730  | -----   | 672    | -----  | 603    | 582    | -----  |
| TOTAL | 15,478 | 23,762 | 81,483 | 112,310 | 68,780 | 73,048 | 132,090 | 39,026 | 22,185 | 17,230 | 21,790 | 57,200 |
| MEAN  | 499    | 792    | 2,628  | 3,623   | 2,456  | 2,356  | 4,403   | 1,259  | 740    | 556    | 703    | 1,907  |
| MAX   | 1,340  | 1,970  | 10,900 | 7,970   | 5,680  | 10,500 | 21,000  | 3,790  | 1,420  | 1,120  | 1,640  | 8,640  |
| MIN   | 308    | 419    | 554    | 1,260   | 1,130  | 783    | 1,070   | 672    | 431    | 372    | 379    | 494    |
| CFSM  | .68    | 1.08   | 3.60   | 4.96    | 3.36   | 3.23   | 6.03    | 1.72   | 1.01   | .76    | .96    | 2.61   |
| IN.   | .79    | 1.21   | 4.15   | 5.72    | 3.50   | 3.72   | 6.73    | 1.99   | 1.13   | .88    | 1.11   | 2.91   |

CAL YR 1973 TOTAL 579,403 MEAN 1.587 MAX 11,400 MIN 274 CFSM 2.17 IN 29.53  
WTR YR 1974 TOTAL 664,382 MEAN 1.820 MAX 21,000 MIN 308 CFSM 2.49 IN 33.86

## PEAK DISCHARGE (BASE, 7,000 CFS)

| DATE  | TIME | G. H. | DISCHARGE | DATE  | TIME | G. H. | DISCHARGE |
|-------|------|-------|-----------|-------|------|-------|-----------|
| 12-29 | 2200 | 22.26 | 11,200    | 03-29 | 1800 | 21.92 | 10,700    |
| 01-21 | 2330 | 19.30 | 8,070     | 04-15 | 2200 | 25.55 | 25,000    |
| 01-27 | 1700 | 19.50 | 8,250     | 09-11 | 1030 | 20.06 | 8,760     |

## PASCAGOULA RIVER BASIN

63

02479300 Red Creek at Vestry, Miss.

LOCATION.--Lat 30°44'10", long 88°46'50", in SW¼SW¼ sec.34, T.3 S., R.8 W., St. Stephens meridian, George County, near center of channel on downstream side of bridge on county highway, 0.5 mile (0.8 km) north of Vestry, and 1.1 miles (1.8 km) upstream from Little Red Creek.

DRAINAGE AREA.--416 mi<sup>2</sup> (1,077 km<sup>2</sup>).

PERIOD OF RECORD.--July 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 20.10 ft (6.126 m) above mean sea level.

AVERAGE DISCHARGE.--16 years, 818 ft<sup>3</sup>/s (23.17 m<sup>3</sup>/s), 26.70 in/yr (678 mm/yr).

EXTREMES.--Current year: Maximum discharge, 9,780 ft<sup>3</sup>/s (277 m<sup>3</sup>/s) Apr. 17 (gage height, 15.66 ft or 4.773 m); minimum, 204 ft<sup>3</sup>/s (5.78 m<sup>3</sup>/s) July 14, 15 (gage height, 4.38 ft or 1.335 m).  
Period of record: Maximum discharge, 21,500 ft<sup>3</sup>/s (609 m<sup>3</sup>/s) Dec. 12, 1961; maximum gage height, 18.78 ft (5.724 m) Apr. 28, 1964; minimum discharge, 88 ft<sup>3</sup>/s (2.49 m<sup>3</sup>/s) Oct. 22, 1963 (gage height, 3.22 ft or 0.981 m).

REMARKS.--Records good except those for periods of no gage-height record, which are fair.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1     | 978    | 345    | 676    | 3,500  | 3,380  | 615    | 2,990  | 546    | 347    | 220    | 614    | 430    |
| 2     | 799    | 371    | 600    | 2,500  | 2,370  | 594    | 1,910  | 524    | 656    | 213    | 902    | 504    |
| 3     | 794    | 335    | 500    | 2,200  | 1,920  | 573    | 2,790  | 601    | 889    | 211    | 1,040  | 1,600  |
| 4     | 824    | 296    | 700    | 2,050  | 2,150  | 556    | 3,170  | 711    | 588    | 217    | 726    | 1,170  |
| 5     | 823    | 620    | 1,200  | 2,730  | 1,940  | 545    | 2,330  | 696    | 584    | 212    | 696    | 733    |
| 6     | 705    | 1,480  | 1,000  | 2,250  | 1,640  | 530    | 1,480  | 933    | 494    | 237    | 552    | 632    |
| 7     | 519    | 1,540  | 700    | 1,540  | 2,160  | 515    | 1,040  | 821    | 490    | 392    | 724    | 999    |
| 8     | 392    | 1,040  | 600    | 1,560  | 3,650  | 497    | 936    | 649    | 443    | 412    | 1,030  | 3,580  |
| 9     | 374    | 780    | 520    | 1,400  | 4,280  | 475    | 1,150  | 544    | 441    | 333    | 920    | 5,100  |
| 10    | 360    | 548    | 460    | 1,150  | 3,650  | 460    | 1,020  | 482    | 414    | 272    | 854    | 5,790  |
| 11    | 331    | 449    | 430    | 1,070  | 2,260  | 449    | 863    | 480    | 374    | 241    | 590    | 6,330  |
| 12    | 331    | 399    | 410    | 943    | 1,490  | 541    | 739    | 951    | 440    | 220    | 434    | 6,090  |
| 13    | 348    | 368    | 400    | 867    | 1,170  | 808    | 1,660  | 1,560  | 440    | 213    | 370    | 4,050  |
| 14    | 348    | 345    | 400    | 811    | 1,050  | 757    | 3,560  | 1,210  | 582    | 208    | 567    | 1,820  |
| 15    | 312    | 357    | 400    | 764    | 975    | 601    | 6,060  | 878    | 913    | 206    | 1,240  | 1,190  |
| 16    | 291    | 496    | 450    | 729    | 1,070  | 514    | 7,990  | 612    | 735    | 221    | 973    | 957    |
| 17    | 298    | 464    | 500    | 708    | 1,220  | 473    | 9,450  | 492    | 518    | 277    | 957    | 795    |
| 18    | 329    | 459    | 450    | 667    | 1,110  | 445    | 7,620  | 440    | 396    | 488    | 715    | 680    |
| 19    | 351    | 437    | 400    | 635    | 1,050  | 430    | 4,680  | 462    | 342    | 502    | 839    | 597    |
| 20    | 328    | 386    | 1,500  | 1,230  | 1,120  | 457    | 2,360  | 612    | 423    | 542    | 573    | 534    |
| 21    | 284    | 410    | 3,000  | 2,740  | 970    | 834    | 1,420  | 569    | 384    | 468    | 428    | 490    |
| 22    | 258    | 666    | 1,600  | 3,850  | 924    | 1,170  | 1,140  | 486    | 330    | 526    | 350    | 623    |
| 23    | 243    | 722    | 1,100  | 3,820  | 1,050  | 1,170  | 1,030  | 667    | 296    | 524    | 301    | 891    |
| 24    | 234    | 617    | 900    | 3,010  | 992    | 1,030  | 995    | 979    | 380    | 907    | 268    | 599    |
| 25    | 226    | 515    | 900    | 3,340  | 922    | 816    | 916    | 821    | 492    | 1,400  | 242    | 480    |
| 26    | 220    | 440    | 3,000  | 3,920  | 813    | 803    | 814    | 630    | 357    | 975    | 230    | 436    |
| 27    | 214    | 457    | 6,000  | 4,240  | 689    | 2,140  | 731    | 554    | 301    | 592    | 238    | 430    |
| 28    | 211    | 727    | 8,000  | 4,530  | 642    | 3,810  | 665    | 514    | 263    | 522    | 262    | 428    |
| 29    | 212    | 1,050  | 8,600  | 4,240  | -----  | 5,640  | 612    | 486    | 241    | 441    | 322    | 410    |
| 30    | 213    | 829    | 8,000  | 4,070  | -----  | 6,540  | 573    | 416    | 228    | 407    | 309    | 389    |
| 31    | 236    | -----  | 6,000  | 3,920  | -----  | 5,520  | -----  | 374    | -----  | 546    | 304    | -----  |
| TOTAL | 12,386 | 17,948 | 59,396 | 71,104 | 46,657 | 40,308 | 72,694 | 20,700 | 13,781 | 13,145 | 18,570 | 48,757 |
| MEAN  | 400    | 598    | 1,916  | 2,254  | 1,666  | 1,300  | 2,423  | 668    | 459    | 424    | 599    | 1,625  |
| MAX   | 978    | 1,540  | 8,600  | 4,530  | 4,280  | 6,540  | 9,450  | 1,560  | 913    | 1,400  | 1,240  | 6,330  |
| MIN   | 211    | 296    | 400    | 635    | 642    | 430    | 573    | 374    | 228    | 206    | 230    | 389    |
| CFSM  | .96    | 1.44   | 4.61   | 5.51   | 4.00   | 3.13   | 5.82   | 1.61   | 1.10   | 1.02   | 1.44   | 3.91   |
| IN.   | 1.11   | 1.60   | 5.31   | 6.36   | 4.17   | 3.60   | 6.50   | 1.85   | 1.23   | 1.18   | 1.66   | 4.36   |

CAL YR 1973 TOTAL 416,742 MEAN 1,142 MAX 11,100 MIN 190 CFSM 2.75 IN 37.27  
WTR YR 1974 TOTAL 435,446 MEAN 1,193 MAX 9,450 MIN 206 CFSM 2.87 IN 38.94

## PEAK DISCHARGE (BASE, 4,000 CFS)

NOTE: No gage-height record  
Dec. 2 to Jan. 3.

| DATE  | TIME | G.HT. | DISCHARGE | DATE  | TIME | G.HT. | DISCHARGE |
|-------|------|-------|-----------|-------|------|-------|-----------|
| 12-29 | Time | and   | discharge | 03-30 | 1130 | 14.63 | 6,690     |
| 01-28 | 0830 | 13.95 | 4,650     | 04-17 | 1530 | 15.66 | 9,780     |
| 02-09 | 1800 | 13.87 | 4,420     | 09-11 | 2330 | 14.59 | 6,570     |

## PASCAGOULA RIVER BASIN

02479560 Escatawpa River near Agricola, Miss.

LOCATION.--Lat 30°48'32", long 88°27'41", in SW¼ sec. 2, T. 3 S., R. 5 W., George County, Miss., on downstream side of bridge on county road 612, 6.7 mi (10.8 km) west of Wilmer, Ala., 2.5 mi (4.0 km) west of Alabama-Mississippi State line, 4.8 mi (7.7 km) below old gage at Escatawpa River near Wilmer, Ala.

DRAINAGE AREA.--556 mi<sup>2</sup> (1,440 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Altitude of gage is 50 ft (15 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 10,500 ft<sup>3</sup>/s (297 m<sup>3</sup>/s) Apr. 17 (gage height, 17.85 ft or 5.441 m); minimum, 163 ft<sup>3</sup>/s (4.62 m<sup>3</sup>/s) July 2 (gage height, 2.40 ft or 0.732 m).

Period of record: Maximum discharge, 10,500 ft<sup>3</sup>/s (297 m<sup>3</sup>/s) Apr. 17, 1974 (gage height, 17.85 ft or 5.441 m); minimum, 163 ft<sup>3</sup>/s (4.62 m<sup>3</sup>/s) July 2, 1974 (gage height, 2.40 ft or 0.732 m).

REMARKS.--Records good.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL   | AUG    | SEP    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|
| 1     | 1,000  | 364    | 995    | 2,420  | 3,500  | 752    | 2,570  | 584    | 400    | 169   | 272    | 355    |
| 2     | 1,200  | 310    | 900    | 2,730  | 2,710  | 673    | 2,450  | 546    | 1,000  | 169   | 978    | 921    |
| 3     | 1,700  | 290    | 779    | 2,210  | 2,250  | 628    | 2,420  | 522    | 1,500  | 171   | 935    | 1,300  |
| 4     | 1,200  | 250    | 823    | 2,120  | 1,830  | 600    | 2,460  | 494    | 1,300  | 174   | 999    | 1,530  |
| 5     | 1,100  | 500    | 1,100  | 2,160  | 1,450  | 578    | 2,160  | 551    | 830    | 238   | 1,180  | 2,180  |
| 6     | 1,000  | 640    | 1,020  | 1,890  | 1,220  | 570    | 1,700  | 597    | 573    | 326   | 759    | 2,550  |
| 7     | 800    | 520    | 949    | 1,830  | 2,290  | 543    | 1,420  | 546    | 457    | 351   | 526    | 2,320  |
| 8     | 700    | 460    | 808    | 1,940  | 4,380  | 512    | 1,380  | 504    | 433    | 567   | 668    | 5,900  |
| 9     | 600    | 430    | 683    | 1,720  | 3,870  | 490    | 1,380  | 460    | 410    | 538   | 568    | 8,800  |
| 10    | 500    | 620    | 594    | 1,480  | 2,700  | 470    | 1,210  | 426    | 424    | 378   | 466    | 9,050  |
| 11    | 450    | 600    | 516    | 1,270  | 2,140  | 455    | 1,070  | 450    | 645    | 276   | 352    | 8,390  |
| 12    | 400    | 550    | 453    | 1,130  | 2,010  | 611    | 950    | 656    | 453    | 210   | 297    | 7,710  |
| 13    | 370    | 430    | 424    | 1,020  | 1,660  | 904    | 2,670  | 665    | 448    | 183   | 249    | 6,200  |
| 14    | 350    | 360    | 396    | 939    | 1,300  | 956    | 5,520  | 548    | 645    | 191   | 436    | 3,600  |
| 15    | 330    | 340    | 383    | 902    | 1,120  | 920    | 7,630  | 436    | 836    | 185   | 623    | 1,960  |
| 16    | 306    | 480    | 417    | 887    | 1,140  | 865    | 9,370  | 396    | 562    | 271   | 1,190  | 1,380  |
| 17    | 332    | 540    | 408    | 859    | 1,250  | 817    | 10,300 | 368    | 401    | 309   | 1,750  | 1,070  |
| 18    | 414    | 500    | 398    | 817    | 1,230  | 712    | 9,310  | 340    | 326    | 245   | 1,550  | 842    |
| 19    | 490    | 420    | 394    | 758    | 1,240  | 619    | 6,600  | 364    | 419    | 214   | 1,190  | 689    |
| 20    | 383    | 360    | 694    | 1,130  | 1,300  | 1,000  | 3,410  | 326    | 824    | 195   | 853    | 591    |
| 21    | 310    | 700    | 1,740  | 2,780  | 1,200  | 1,530  | 1,980  | 304    | 628    | 361   | 571    | 616    |
| 22    | 275    | 1,400  | 2,100  | 3,600  | 1,310  | 2,150  | 1,460  | 419    | 417    | 276   | 628    | 547    |
| 23    | 257    | 1,300  | 1,940  | 2,780  | 1,380  | 1,790  | 1,300  | 1,010  | 306    | 202   | 449    | 475    |
| 24    | 243    | 1,100  | 1,700  | 3,320  | 1,250  | 1,440  | 1,280  | 960    | 266    | 479   | 334    | 421    |
| 25    | 233    | 800    | 1,710  | 4,260  | 1,100  | 1,230  | 1,150  | 750    | 235    | 447   | 273    | 389    |
| 26    | 225    | 650    | 2,230  | 4,380  | 980    | 1,300  | 998    | 450    | 214    | 449   | 283    | 370    |
| 27    | 220    | 540    | 2,980  | 3,730  | 898    | 2,780  | 875    | 450    | 198    | 307   | 262    | 376    |
| 28    | 216    | 866    | 2,860  | 3,180  | 836    | 4,710  | 782    | 420    | 187    | 246   | 237    | 368    |
| 29    | 217    | 974    | 2,780  | 3,160  | -----  | 4,860  | 696    | 400    | 181    | 251   | 240    | 346    |
| 30    | 216    | 1,030  | 2,760  | 3,970  | -----  | 4,400  | 631    | 350    | 176    | 231   | 241    | 320    |
| 31    | 271    | -----  | 2,540  | 4,070  | -----  | 3,500  | -----  | 300    | -----  | 237   | 271    | -----  |
| TOTAL | 16,308 | 18,324 | 38,474 | 69,442 | 49,544 | 43,365 | 87,132 | 15,592 | 15,694 | 8,846 | 19,630 | 71,566 |
| MEAN  | 526    | 611    | 1,241  | 2,240  | 1,769  | 1,399  | 2,904  | 503    | 523    | 285   | 633    | 2,386  |
| MAX   | 1,700  | 1,400  | 2,980  | 4,380  | 4,380  | 4,860  | 10,300 | 1,010  | 1,500  | 567   | 1,750  | 9,050  |
| MIN   | 216    | 250    | 383    | 758    | 836    | 455    | 631    | 300    | 176    | 169   | 237    | 320    |
| CFSM  | .95    | 1.10   | 2.23   | 4.03   | 3.18   | 2.52   | 5.22   | .90    | .94    | .51   | 1.14   | 4.29   |
| IN.   | 1.09   | 1.23   | 2.57   | 4.65   | 3.31   | 2.90   | 5.83   | 1.04   | 1.05   | .59   | 1.31   | 4.79   |

WTR YR 1974 TOTAL 453,917 MEAN 1,244 MAX 10,300 MIN 169 CFSM 2.24 IN 30.37

## PEAK DISCHARGE (BASE, 5,000 CFS)

| DATE | TIME | G. H. | DISCHARGE | DATE | TIME | G. H. | DISCHARGE |
|------|------|-------|-----------|------|------|-------|-----------|
| 4-17 | 1600 | 17.85 | 10,500    | 9-09 | 2100 | 17.25 | 9,270     |



02481000 Biloxi River at Wortham, Miss.

LOCATION.--Lat 30°33'30", long 89°07'20", in SE¼SE¼ sec.31, T.5 S., R.11 W., St. Stephens meridian, Harrison County, on downstream side of right main pier of upstream bridge of dual bridges on U.S. Highway 49, 0.8 mile (1.3 km) east of Wortham, 1 mile (1.6 km) downstream from Illinois Central Railroad bridge, 1 mile (1.6 km) upstream from Saucier Creek, and 4.2 miles (6.8 km) north of Lyman.

DRAINAGE AREA.--96.1 mi<sup>2</sup> (248.9 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 21.18 ft (6.456 m) above mean sea level (levels by Mississippi State Highway Department).

AVERAGE DISCHARGE.--22 years, 179 ft<sup>3</sup>/s (5.069 m<sup>3</sup>/s), 25.29 in/yr (642 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,820 ft<sup>3</sup>/s (108 m<sup>3</sup>/s) Apr. 13 (gage height, 13.51 ft or 4.118 m); minimum, 19 ft<sup>3</sup>/s (0.538 m<sup>3</sup>/s) Oct. 30, 31 (gage height, 0.68 ft or 0.207 m).

Period of record: Maximum discharge, 8,420 ft<sup>3</sup>/s (238 m<sup>3</sup>/s) Apr. 27, 1964; maximum gage height, 21.08 ft (6.425 m) Sept. 18, 1957; minimum discharge, 1.1 ft<sup>3</sup>/s (0.031 m<sup>3</sup>/s).

Flood in 1948 reached a stage of 23.3 ft (7.10 m), from information by Mississippi State Highway Department. Floods in 1916 and 1928 reached approximately the same stage and were at least 8.5 ft (2.59 m) higher than that of Sept. 18, 1957, at a point about 1 mile (1.6 km) upstream, from information by local residents.

REMARKS.--Records good.

REVISIONS.--WRD Miss. 1972: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT   | NOV   | DEC   | JAN    | FEB    | MAR   | APR    | MAY   | JUN   | JUL   | AUG   | SEP    |
|-------|-------|-------|-------|--------|--------|-------|--------|-------|-------|-------|-------|--------|
| 1     | 452   | 85    | 113   | 464    | 411    | 90    | 235    | 53    | 34    | 27    | 134   | 93     |
| 2     | 240   | 77    | 89    | 464    | 490    | 88    | 1,320  | 51    | 414   | 26    | 60    | 77     |
| 3     | 153   | 56    | 77    | 360    | 665    | 85    | 1,120  | 348   | 362   | 26    | 61    | 81     |
| 4     | 110   | 42    | 255   | 1,040  | 421    | 82    | 663    | 312   | 133   | 25    | 80    | 52     |
| 5     | 85    | 702   | 453   | 653    | 281    | 80    | 362    | 258   | 75    | 24    | 332   | 39     |
| 6     | 68    | 686   | 239   | 400    | 226    | 77    | 233    | 214   | 57    | 24    | 129   | 37     |
| 7     | 59    | 395   | 131   | 491    | 1,870  | 73    | 176    | 119   | 61    | 30    | 65    | 663    |
| 8     | 57    | 171   | 99    | 532    | 1,590  | 67    | 358    | 79    | 122   | 38    | 144   | 2,230  |
| 9     | 52    | 119   | 87    | 338    | 963    | 62    | 360    | 59    | 133   | 30    | 165   | 2,280  |
| 10    | 53    | 98    | 79    | 258    | 504    | 59    | 197    | 48    | 67    | 28    | 68    | 1,820  |
| 11    | 86    | 79    | 71    | 212    | 354    | 58    | 137    | 158   | 108   | 26    | 36    | 911    |
| 12    | 75    | 64    | 65    | 174    | 280    | 134   | 122    | 344   | 76    | 25    | 65    | 392    |
| 13    | 80    | 56    | 64    | 141    | 237    | 137   | 2,580  | 172   | 44    | 24    | 37    | 250    |
| 14    | 69    | 51    | 61    | 125    | 208    | 97    | 1,850  | 88    | 111   | 28    | 294   | 184    |
| 15    | 54    | 55    | 60    | 118    | 191    | 69    | 1,810  | 56    | 199   | 26    | 1,010 | 187    |
| 16    | 60    | 176   | 64    | 115    | 298    | 62    | 1,400  | 44    | 114   | 25    | 731   | 141    |
| 17    | 187   | 129   | 57    | 109    | 261    | 59    | 883    | 37    | 54    | 24    | 506   | 105    |
| 18    | 111   | 78    | 49    | 102    | 180    | 53    | 412    | 33    | 37    | 23    | 543   | 81     |
| 19    | 77    | 61    | 48    | 100    | 326    | 48    | 275    | 33    | 38    | 23    | 352   | 64     |
| 20    | 53    | 53    | 571   | 664    | 265    | 49    | 210    | 66    | 32    | 25    | 222   | 56     |
| 21    | 42    | 157   | 536   | 869    | 180    | 380   | 167    | 46    | 30    | 54    | 111   | 55     |
| 22    | 36    | 281   | 318   | 618    | 193    | 378   | 153    | 302   | 29    | 98    | 75    | 81     |
| 23    | 32    | 162   | 163   | 295    | 163    | 167   | 269    | 674   | 28    | 165   | 56    | 178    |
| 24    | 29    | 106   | 136   | 1,010  | 131    | 102   | 185    | 416   | 314   | 195   | 47    | 88     |
| 25    | 26    | 86    | 207   | 1,240  | 111    | 98    | 123    | 151   | 334   | 466   | 38    | 55     |
| 26    | 24    | 77    | 1,390 | 1,550  | 100    | 273   | 95     | 123   | 107   | 154   | 37    | 53     |
| 27    | 23    | 85    | 1,280 | 1,030  | 94     | 2,320 | 81     | 161   | 53    | 116   | 45    | 64     |
| 28    | 21    | 302   | 736   | 638    | 91     | 2,070 | 71     | 116   | 33    | 128   | 67    | 57     |
| 29    | 20    | 383   | 340   | 963    | -----  | 1,390 | 64     | 70    | 29    | 67    | 69    | 51     |
| 30    | 19    | 181   | 289   | 1,280  | -----  | 625   | 58     | 50    | 28    | 49    | 60    | 50     |
| 31    | 34    | ----- | 302   | 649    | -----  | 330   | -----  | 38    | ----- | 545   | 53    | -----  |
| TOTAL | 2,487 | 5,053 | 8,429 | 17,042 | 11,084 | 9,662 | 15,969 | 4,719 | 3,256 | 2,564 | 5,692 | 10,475 |
| MEAN  | 80.2  | 168   | 272   | 550    | 396    | 312   | 532    | 152   | 109   | 82.7  | 184   | 349    |
| MAX   | 452   | 702   | 1,390 | 1,550  | 1,870  | 2,320 | 2,580  | 674   | 414   | 545   | 1,010 | 2,280  |
| MTN   | 19    | 42    | 48    | 100    | 91     | 48    | 58     | 33    | 28    | 23    | 36    | 37     |
| CFSM  | .83   | 1.75  | 2.83  | 5.72   | 4.12   | 3.25  | 5.54   | 1.58  | 1.13  | .86   | 1.91  | 3.63   |
| IN.   | .96   | 1.96  | 3.26  | 6.60   | 4.29   | 3.74  | 6.18   | 1.83  | 1.26  | .99   | 2.20  | 4.05   |

CAL YR 1973 TOTAL 107,070 MEAN 293 MAX 4,930 MIN 10 CFSM 3.05 IN 41.45  
WTR YR 1974 TOTAL 96,432 MEAN 264 MAX 2,580 MIN 19 CFSM 2.75 IN 37.33

## PEAK DISCHARGE (BASE, 2,000 CFS)

| DATE  | TIME | G. H. | DISCHARGE | DATE  | TIME | G. H. | DISCHARGE |
|-------|------|-------|-----------|-------|------|-------|-----------|
| 12-26 | 1545 | 9.26  | 2,130     | 04-02 | 1430 | 9.19  | 2,120     |
| 01-29 | 2245 | 9.15  | 2,090     | 04-13 | 1230 | 13.51 | 3,820     |
| 02-07 | 1030 | 11.25 | 2,910     | 09-09 | 2000 | 10.63 | 2,660     |
| 03-27 | 1245 | 10.67 | 2,680     |       |      |       |           |

## WOLF RIVER BASIN

02481510 Wolf River near Landon, Miss.

LOCATION.--Lat 30°29'00", long 89°16'28", in NE¼ sec.34, T.6 S., R.13 W., St. Stephens meridian, Harrison County, on left bank at downstream side of bridge on county highway, 0.3 mile (0.5 km) downstream from Sandy Creek, 1.3 miles (2.1 km) upstream from Pole Branch, and 11 miles (17.7 km) northwest of Landon.

DRAINAGE AREA.--308 mi<sup>2</sup> (798 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 21.34 ft (6.504 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 8,100 ft<sup>3</sup>/s (229 m<sup>3</sup>/s) Apr. 13 (gage height, 12.55 ft or 3.825 m); minimum, 128 ft<sup>3</sup>/s (3.62 m<sup>3</sup>/s) Oct. 29, 30 (gage height, 1.67 ft or 0.509 m).  
 Period of record: Maximum discharge, about 13,200 ft<sup>3</sup>/s (374 m<sup>3</sup>/s) Mar. 24 or 25, 1973 (gage height, 16.5 ft or 5.03 m, from reconstructed graph); minimum, 44 ft<sup>3</sup>/s (1.25 m<sup>3</sup>/s) Oct. 18-22, 1972; minimum gage height, 1.32 ft (0.402 m) July 21, 1973.  
 Flood of April 27, 1964, reached a stage of 21.06 ft (6.419 m). The flood of 1920 reached a stage about 5 ft (1.5 m) higher than that of April 1964, from information by local resident.

REMARKS.--Records good.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT   | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN   | JUL    | AUG   | SEP    |
|-------|-------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|--------|
| 1     | 822   | 244    | 523    | 1,710  | 1,790  | 449    | 1,500  | 322    | 218   | 156    | 204   | 340    |
| 2     | 471   | 275    | 404    | 1,700  | 1,790  | 428    | 3,200  | 315    | 680   | 153    | 175   | 226    |
| 3     | 420   | 220    | 336    | 1,480  | 2,370  | 404    | 3,000  | 771    | 581   | 150    | 247   | 177    |
| 4     | 494   | 180    | 458    | 2,610  | 1,970  | 392    | 2,020  | 711    | 333   | 150    | 172   | 188    |
| 5     | 408   | 1,730  | 685    | 1,700  | 1,530  | 381    | 1,360  | 855    | 238   | 200    | 158   | 195    |
| 6     | 351   | 2,580  | 592    | 1,290  | 1,270  | 366    | 972    | 771    | 226   | 347    | 165   | 162    |
| 7     | 259   | 1,810  | 440    | 1,360  | 4,940  | 354    | 743    | 542    | 266   | 509    | 153   | 1,370  |
| 8     | 220   | 1,110  | 373    | 1,510  | 4,400  | 336    | 930    | 385    | 226   | 351    | 528   | 6,150  |
| 9     | 232   | 706    | 319    | 1,200  | 2,650  | 322    | 990    | 308    | 209   | 226    | 408   | 5,840  |
| 10    | 209   | 528    | 285    | 950    | 1,810  | 312    | 716    | 266    | 201   | 193    | 229   | 4,710  |
| 11    | 291   | 424    | 266    | 855    | 1,370  | 305    | 566    | 458    | 218   | 177    | 162   | 2,660  |
| 12    | 278   | 362    | 256    | 743    | 1,080  | 381    | 485    | 1,920  | 215   | 170    | 150   | 1,560  |
| 13    | 229   | 322    | 250    | 664    | 900    | 838    | 5,770  | 1,190  | 201   | 170    | 175   | 1,040  |
| 14    | 201   | 302    | 247    | 597    | 788    | 566    | 6,540  | 618    | 198   | 212    | 302   | 706    |
| 15    | 182   | 298    | 244    | 566    | 716    | 400    | 7,390  | 400    | 344   | 175    | 883   | 514    |
| 16    | 272   | 319    | 244    | 566    | 942    | 351    | 7,700  | 312    | 333   | 162    | 408   | 412    |
| 17    | 930   | 322    | 238    | 533    | 1,060  | 322    | 4,240  | 266    | 250   | 165    | 226   | 344    |
| 18    | 805   | 291    | 232    | 499    | 810    | 298    | 2,110  | 241    | 209   | 177    | 420   | 288    |
| 19    | 467   | 272    | 232    | 485    | 978    | 275    | 1,450  | 244    | 198   | 340    | 638   | 247    |
| 20    | 295   | 259    | 1,740  | 2,750  | 972    | 300    | 1,110  | 278    | 209   | 336    | 358   | 218    |
| 21    | 229   | 358    | 2,000  | 3,760  | 690    | 1,100  | 883    | 244    | 198   | 680    | 201   | 201    |
| 22    | 193   | 597    | 1,290  | 2,210  | 788    | 1,500  | 754    | 1,040  | 195   | 690    | 155   | 298    |
| 23    | 175   | 612    | 844    | 1,440  | 1,010  | 800    | 777    | 1,770  | 190   | 754    | 148   | 235    |
| 24    | 160   | 445    | 680    | 2,750  | 799    | 560    | 701    | 1,040  | 269   | 1,040  | 144   | 198    |
| 25    | 150   | 373    | 644    | 3,560  | 654    | 500    | 576    | 592    | 288   | 1,400  | 140   | 190    |
| 26    | 144   | 340    | 3,260  | 4,440  | 552    | 1,000  | 494    | 449    | 195   | 542    | 137   | 190    |
| 27    | 137   | 381    | 5,650  | 3,750  | 485    | 5,600  | 436    | 445    | 180   | 373    | 134   | 193    |
| 28    | 135   | 827    | 4,840  | 2,790  | 471    | 6,000  | 392    | 381    | 170   | 298    | 170   | 190    |
| 29    | 130   | 912    | 2,300  | 2,840  | -----  | 5,000  | 362    | 305    | 165   | 193    | 607   | 188    |
| 30    | 130   | 716    | 1,530  | 3,170  | -----  | 2,500  | 340    | 253    | 160   | 167    | 654   | 182    |
| 31    | 162   | -----  | 1,560  | 2,470  | -----  | 1,500  | -----  | 226    | ----- | 253    | 654   | -----  |
| TOTAL | 9,581 | 18,115 | 32,962 | 57,028 | 39,595 | 33,840 | 58,507 | 17,918 | 7,563 | 10,909 | 9,305 | 29,412 |
| MEAN  | 309   | 604    | 1,063  | 1,840  | 1,414  | 1,092  | 1,950  | 578    | 252   | 352    | 300   | 980    |
| MAX   | 930   | 2,580  | 5,650  | 4,440  | 4,940  | 6,000  | 7,700  | 1,920  | 680   | 1,400  | 883   | 6,150  |
| MIN   | 130   | 180    | 232    | 485    | 471    | 275    | 340    | 226    | 160   | 150    | 134   | 162    |
| CFSM  | 1.00  | 1.96   | 3.45   | 5.97   | 4.59   | 3.55   | 6.33   | 1.88   | .82   | 1.14   | .97   | 3.18   |
| IN.   | 1.16  | 2.19   | 3.98   | 6.89   | 4.78   | 4.09   | 7.07   | 2.16   | .91   | 1.32   | 1.12  | 3.55   |

CAL YR 1973 TOTAL 329,863 MEAN 901 MAX 12,000 MIN 98 CFSM 2.93 IN 39.72  
 WTR YR 1974 TOTAL 324,735 MEAN 890 MAX 7,700 MIN 130 CFSM 2.89 IN 39.22

## PEAK DISCHARGE (BASE, 4,000 CFS)

| DATE  | TIME | G.H.T. | DISCHARGE | DATE  | TIME                        | G.H.T. | DISCHARGE |
|-------|------|--------|-----------|-------|-----------------------------|--------|-----------|
| 12-27 | 2200 | 10.64  | 6,180     | †     | Time and discharge unknown. |        |           |
| 01-20 | 2330 | 8.85   | 4,580     | 04-13 | 1200                        | 12.55  | 8,100     |
| 01-26 | 1000 | 8.92   | 4,640     | 09-08 | 1400                        | 10.99  | 6,490     |
| 02-07 | 1100 | 11.13  | 6,530     |       |                             |        |           |

† Mar. 27 or 28.

02482000 Pearl River at Edinburg, Miss.

LOCATION.--Lat 32°47'55", long 89°21'10", in SW¼SW¼ sec.13, T.11 N., R.9 E., Choctaw meridian, Leake County, on right bank 20 ft (6 m) downstream from bridge on State Highway 16 at Edinburg, 1,100 ft (335 m) downstream from Hooper Mill Creek, 3 miles (5 km) upstream from Rice Creek and at mile 387.5 (623.5 km).

DRAINAGE AREA.--898 mi<sup>2</sup> (2,326 km<sup>2</sup>).

PERIOD OF RECORD.--August 1928 to current year. Gage-height records collected in same vicinity since 1908 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 341.67 ft (104.141 m) above mean sea level. Prior to July 2, 1930, nonrecording gage at site 500 ft (152 m) upstream at datum 0.12 ft (0.037 m) higher. July 2, 1930, to Sept. 20, 1938, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--46 years, 1,080 ft<sup>3</sup>/s (30.59 m<sup>3</sup>/s), 16.33 in/yr (415 mm/yr).

EXTREMES.--Current year: Maximum discharge, 28,800 ft<sup>3</sup>/s (816 m<sup>3</sup>/s) Apr. 15 (gage height, 26.72 ft or 8.144 m); minimum, 32 ft<sup>3</sup>/s (0.91 m<sup>3</sup>/s) Oct. 13, 14 (gage height, 2.30 ft or 0.701 m).

Period of record: Maximum discharge, 31,400 ft<sup>3</sup>/s (889 m<sup>3</sup>/s) Mar. 8, 1935; maximum gage height, 26.72 ft (8.144 m) Apr. 15, 1974; minimum discharge, 1.7 ft<sup>3</sup>/s (0.048 m<sup>3</sup>/s) Oct. 5, 1954 (gage height, 1.02 ft or 0.311 m).

The flood in March 1902 reached a stage of 29.0 ft (8.84 m), from reports of National Weather Service.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1504: 1929-30, 1933.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT   | NOV    | DEC     | JAN     | FEB     | MAR    | APR     | MAY    | JUN    | JUL   | AUG   | SEP    |
|-------|-------|--------|---------|---------|---------|--------|---------|--------|--------|-------|-------|--------|
| 1     | 149   | 64     | 5,070   | 6,510   | 8,290   | 2,230  | 2,780   | 1,300  | 1,940  | 970   | 85    | 433    |
| 2     | 215   | 60     | 5,740   | 5,190   | 6,620   | 1,830  | 3,270   | 1,090  | 1,620  | 740   | 79    | 800    |
| 3     | 119   | 51     | 5,360   | 4,290   | 5,410   | 1,680  | 3,680   | 824    | 1,300  | 452   | 82    | 740    |
| 4     | 117   | 50     | 4,770   | 3,700   | 4,490   | 1,580  | 4,300   | 595    | 954    | 270   | 115   | 696    |
| 5     | 88    | 210    | 4,070   | 3,150   | 3,650   | 1,410  | 4,500   | 512    | 990    | 190   | 108   | 596    |
| 6     | 68    | 242    | 3,470   | 2,880   | 2,990   | 1,210  | 4,720   | 467    | 1,610  | 211   | 84    | 553    |
| 7     | 55    | 197    | 2,870   | 3,640   | 2,710   | 1,040  | 4,760   | 442    | 1,670  | 424   | 75    | 542    |
| 8     | 50    | 214    | 2,110   | 3,890   | 2,640   | 902    | 4,390   | 414    | 2,010  | 506   | 127   | 640    |
| 9     | 46    | 238    | 1,650   | 5,440   | 2,490   | 792    | 3,940   | 379    | 1,870  | 431   | 271   | 686    |
| 10    | 42    | 200    | 1,400   | 8,660   | 2,190   | 714    | 3,330   | 338    | 1,540  | 347   | 193   | 551    |
| 11    | 38    | 163    | 1,280   | 10,100  | 2,000   | 826    | 2,600   | 326    | 1,360  | 341   | 143   | 624    |
| 12    | 36    | 146    | 1,190   | 11,100  | 2,080   | 1,060  | 3,140   | 670    | 1,510  | 361   | 149   | 676    |
| 13    | 33    | 139    | 1,100   | 11,500  | 2,200   | 1,050  | 7,750   | 858    | 1,680  | 365   | 213   | 640    |
| 14    | 33    | 134    | 942     | 10,100  | 2,120   | 912    | 20,100  | 818    | 1,630  | 344   | 250   | 610    |
| 15    | 33    | 126    | 766     | 9,030   | 3,220   | 814    | 27,900  | 820    | 1,380  | 368   | 190   | 584    |
| 16    | 90    | 113    | 610     | 7,600   | 4,260   | 752    | 21,300  | 868    | 1,080  | 249   | 166   | 494    |
| 17    | 148   | 98     | 503     | 6,450   | 5,100   | 702    | 12,500  | 804    | 772    | 191   | 163   | 332    |
| 18    | 142   | 90     | 438     | 5,750   | 6,390   | 696    | 8,090   | 684    | 526    | 145   | 157   | 187    |
| 19    | 132   | 84     | 401     | 5,320   | 7,510   | 736    | 5,830   | 551    | 390    | 121   | 148   | 123    |
| 20    | 114   | 81     | 1,200   | 5,530   | 7,150   | 1,010  | 4,500   | 424    | 305    | 107   | 168   | 89     |
| 21    | 92    | 922    | 1,440   | 5,410   | 6,530   | 1,380  | 3,380   | 329    | 236    | 109   | 122   | 74     |
| 22    | 77    | 888    | 1,720   | 5,160   | 6,020   | 1,580  | 2,680   | 266    | 200    | 200   | 102   | 63     |
| 23    | 66    | 926    | 1,600   | 5,080   | 5,450   | 1,790  | 2,740   | 243    | 544    | 278   | 91    | 53     |
| 24    | 58    | 792    | 1,400   | 5,750   | 5,030   | 2,320  | 2,660   | 222    | 822    | 433   | 83    | 47     |
| 25    | 50    | 702    | 3,450   | 7,050   | 4,760   | 2,920  | 2,510   | 193    | 914    | 406   | 75    | 46     |
| 26    | 45    | 672    | 5,230   | 8,520   | 4,260   | 2,780  | 1,980   | 1,170  | 864    | 250   | 69    | 72     |
| 27    | 42    | 1,030  | 7,200   | 10,400  | 3,620   | 2,210  | 1,660   | 1,660  | 880    | 167   | 65    | 92     |
| 28    | 41    | 3,180  | 12,700  | 11,500  | 2,900   | 2,760  | 1,600   | 1,470  | 962    | 136   | 66    | 92     |
| 29    | 41    | 3,150  | 15,500  | 11,400  | -----   | 3,670  | 1,580   | 1,440  | 1,060  | 118   | 94    | 98     |
| 30    | 40    | 3,860  | 12,100  | 11,300  | -----   | 3,700  | 1,470   | 1,610  | 1,090  | 106   | 140   | 156    |
| 31    | 50    | -----  | 8,700   | 10,100  | -----   | 3,200  | -----   | 1,940  | -----  | 94    | 113   | -----  |
| TOTAL | 2,350 | 18,828 | 115,980 | 221,580 | 122,080 | 50,256 | 175,640 | 23,727 | 33,709 | 9,430 | 3,986 | 11,389 |
| MEAN  | 75.8  | 624    | 3,741   | 7,148   | 4,360   | 1,621  | 5,855   | 765    | 1,124  | 304   | 129   | 380    |
| MAX   | 215   | 3,860  | 15,500  | 11,500  | 8,290   | 3,700  | 27,900  | 1,940  | 2,010  | 970   | 271   | 800    |
| MIN   | 33    | 50     | 401     | 2,880   | 2,000   | 696    | 1,470   | 193    | 200    | 94    | 65    | 46     |
| CFSM  | .08   | .70    | 4.17    | 7.96    | 4.86    | 1.81   | 6.52    | .85    | 1.25   | .34   | .14   | .42    |
| IN.   | .10   | .72    | 4.80    | 9.18    | 5.06    | 2.08   | 7.28    | .98    | 1.40   | .39   | .17   | .47    |

CAL YR 1973 TOTAL 682,687 MEAN 1,870 MAX 15,500 MIN 33 CFSM 2.08 IN 28.28  
 WTR YR 1974 TOTAL 788,955 MEAN 2,162 MAX 27,900 MIN 33 CFSM 2.41 IN 32.68

02482550 Pearl River near Carthage, Miss.

LOCATION.--Lat 32°42'25", long 89°31'55", in NE¼NE¼ sec.24, T.10 N., R.7 E., Choctaw meridian, Leake County, on right bank at downstream side of bridge on State Highway 35, 2.1 miles (3.4 km) south of Carthage, 4.0 miles (6.4 km) downstream from Lobutch Creek, and 10.8 miles (17.4 km) upstream from Tuscolameta Creek.

DRAINAGE AREA.--1,347 mi<sup>2</sup> (3,489 km<sup>2</sup>).

PERIOD OF RECORD.--September 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 315.24 ft (96.085 m) above mean sea level.

AVERAGE DISCHARGE.--12 years, 1,685 ft<sup>3</sup>/s (47.72 m<sup>3</sup>/s), 16.99 in/yr (432 mm/yr).

EXTREMES.--Current year: Maximum discharge, 29,400 ft<sup>3</sup>/s (833 m<sup>3</sup>/s) Apr. 16 (gage height, 24.54 ft or 7.480 m); minimum daily, 130 ft<sup>3</sup>/s (3.68 m<sup>3</sup>/s) Oct. 15.

Period of record: Maximum discharge, 29,400 ft<sup>3</sup>/s (833 m<sup>3</sup>/s) Apr. 16, 1974 (gage height, 24.54 ft or 7.480 m); minimum, 31 ft<sup>3</sup>/s (0.88 m<sup>3</sup>/s) Oct. 30, 1963 (gage height, 2.36 ft or 0.719 m).

The flood in March 1902 reached a stage of about 27 ft (8.2 m); flood in 1900 reached a stage of 25.6 ft (7.80 m); flood in 1932 reached a stage of 24.3 ft (7.41 m); flood of April 11, 1938, reached a stage of 23.3 ft (7.10 m), all from information by Corps of Engineers. Flood of Dec. 20, 1961, reached a stage of 25.4 ft or 7.74 m (discharge, 31,900 ft<sup>3</sup>/s or 903 m<sup>3</sup>/s).

REMARKS.--Records fair. Records of chemical analyses for the current year are published in Part 2 of this report.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY         | OCT             | NOV        | DEC        | JAN     | FEB       | MAR      | APR     | MAY    | JUN    | JUL    | AUG   | SEP    |
|-------------|-----------------|------------|------------|---------|-----------|----------|---------|--------|--------|--------|-------|--------|
| 1           | 299             | 212        | 5,190      | 11,200  | 12,600    | 4,880    | 5,110   | 2,000  | 2,230  | 1,260  | 226   | 658    |
| 2           | 419             | 237        | 5,620      | 8,460   | 10,500    | 4,050    | 5,190   | 1,760  | 2,230  | 1,120  | 207   | 1,120  |
| 3           | 433             | 226        | 6,080      | 6,980   | 8,600     | 3,330    | 5,340   | 1,510  | 2,060  | 894    | 209   | 935    |
| 4           | 332             | 210        | 6,180      | 6,310   | 7,280     | 2,760    | 5,900   | 1,220  | 1,720  | 656    | 236   | 897    |
| 5           | 290             | 493        | 5,850      | 5,810   | 6,040     | 2,370    | 5,790   | 1,110  | 1,420  | 496    | 240   | 830    |
| 6           | 241             | 640        | 5,060      | 5,520   | 5,160     | 2,090    | 5,510   | 1,090  | 2,220  | 445    | 225   | 736    |
| 7           | 203             | 574        | 4,300      | 6,570   | 4,580     | 1,820    | 5,380   | 1,030  | 2,510  | 520    | 197   | 687    |
| 8           | 184             | 532        | 3,630      | 8,460   | 4,260     | 1,600    | 5,180   | 911    | 2,710  | 645    | 222   | 710    |
| 9           | 181             | 490        | 2,840      | 9,450   | 4,110     | 1,440    | 4,910   | 810    | 3,230  | 665    | 378   | 815    |
| 10          | 160             | 490        | 2,200      | 10,700  | 3,950     | 1,310    | 4,520   | 731    | 4,270  | 588    | 432   | 791    |
| 11          | 151             | 484        | 1,840      | 15,800  | 3,650     | 1,230    | 3,980   | 693    | 3,870  | 520    | 360   | 724    |
| 12          | 144             | 449        | 1,640      | 17,500  | 3,450     | 1,540    | 4,360   | 892    | 3,180  | 508    | 296   | 794    |
| 13          | 138             | 409        | 1,520      | 17,000  | 3,420     | 1,930    | 10,300  | 1,220  | 2,830  | 514    | 311   | 810    |
| 14          | 132             | 360        | 1,380      | 16,000  | 3,440     | 1,940    | 14,500  | 1,320  | 2,550  | 508    | 452   | 765    |
| 15          | 130             | 337        | 1,240      | 15,000  | 4,450     | 1,760    | 23,100  | 1,250  | 2,100  | 568    | 405   | 724    |
| 16          | 199             | 317        | 1,060      | 12,800  | 6,230     | 1,510    | 28,000  | 1,180  | 1,740  | 654    | 362   | 680    |
| 17          | 504             | 294        | 914        | 10,600  | 7,360     | 1,330    | 21,700  | 1,150  | 1,400  | 456    | 330   | 597    |
| 18          | 684             | 276        | 806        | 8,450   | 7,660     | 1,240    | 15,900  | 1,050  | 1,070  | 377    | 335   | 470    |
| 19          | 527             | 261        | 755        | 7,800   | 8,620     | 1,200    | 10,700  | 928    | 880    | 318    | 305   | 372    |
| 20          | 392             | 264        | 1,680      | 8,110   | 9,060     | 1,620    | 7,770   | 791    | 753    | 288    | 287   | 308    |
| 21          | 324             | 1,380      | 2,080      | 8,170   | 8,870     | 2,230    | 5,880   | 663    | 643    | 272    | 293   | 264    |
| 22          | 272             | 1,780      | 2,250      | 7,720   | 9,140     | 2,600    | 4,830   | 566    | 556    | 308    | 247   | 241    |
| 23          | 235             | 1,770      | 2,370      | 7,480   | 8,760     | 2,690    | 4,750   | 512    | 858    | 404    | 213   | 212    |
| 24          | 209             | 1,690      | 2,280      | 8,240   | 7,960     | 2,740    | 4,260   | 487    | 1,310  | 468    | 191   | 190    |
| 25          | 190             | 1,470      | 5,670      | 11,800  | 7,070     | 3,100    | 3,950   | 458    | 1,450  | 616    | 173   | 176    |
| 26          | 176             | 1,230      | 11,000     | 14,900  | 6,450     | 3,600    | 3,650   | 1,300  | 1,510  | 572    | 158   | 205    |
| 27          | 161             | 1,510      | 13,600     | 15,200  | 6,020     | 3,860    | 3,210   | 3,210  | 1,470  | 437    | 150   | 278    |
| 28          | 152             | 3,950      | 14,700     | 15,100  | 5,550     | 3,630    | 2,770   | 3,390  | 1,410  | 357    | 166   | 300    |
| 29          | 146             | 4,590      | 16,000     | 16,000  | -----     | 3,460    | 2,540   | 2,740  | 1,290  | 311    | 200   | 311    |
| 30          | 140             | 5,130      | 17,300     | 15,100  | -----     | 3,940    | 2,240   | 2,290  | 1,280  | 276    | 318   | 371    |
| 31          | 157             | -----      | 15,200     | 13,700  | -----     | 4,790    | -----   | 2,170  | -----  | 248    | 332   | -----  |
| TOTAL       | 7,905           | 32,055     | 162,235    | 341,970 | 184,240   | 77,590   | 231,220 | 40,432 | 56,750 | 16,269 | 8,456 | 16,971 |
| MEAN        | 255             | 1,069      | 5,233      | 11,030  | 6,580     | 2,503    | 7,707   | 1,304  | 1,892  | 525    | 273   | 566    |
| MAX         | 684             | 5,130      | 17,300     | 17,500  | 12,600    | 4,880    | 28,000  | 3,390  | 4,270  | 1,260  | 452   | 1,120  |
| MIN         | 130             | 210        | 755        | 5,520   | 3,420     | 1,200    | 2,240   | 458    | 556    | 248    | 150   | 176    |
| CFSM        | .19             | .79        | 3.88       | 8.19    | 4.88      | 1.86     | 5.72    | .97    | 1.40   | .39    | .20   | .42    |
| IN.         | .22             | .89        | 4.48       | 9.44    | 5.09      | 2.14     | 6.39    | 1.12   | 1.57   | .45    | .23   | .47    |
| CAL YR 1973 | TOTAL 1,022,229 | MEAN 2,801 | MAX 17,900 | MIN 115 | CFSM 2.08 | IN 28.23 |         |        |        |        |       |        |
| WTR YR 1974 | TOTAL 1,176,093 | MEAN 3,222 | MAX 28,000 | MIN 130 | CFSM 2.39 | IN 32.48 |         |        |        |        |       |        |

NOTE.--Doubtful gage-height record Oct. 10-16.

## 02483000 Tuscolameta Creek at Walnut Grove, Miss.

LOCATION.--Lat 32°35', long 89°28', in NW¼ sec.34, T.9 N., R.8 E., Choctaw meridian, Leake County, on right bank at downstream side of bridge on State Highway 35, over north drainage canal, 0.4 mile (0.6 km) south-west of Walnut Grove, 0.6 mile (1.0 km) upstream from Gulf, Mobile and Ohio Railroad bridge, 7.5 miles (12.1 km) upstream from junction of north and south drainage canals, and 15.5 miles (24.9 km) upstream from mouth.

DRAINAGE AREA.--411 mi<sup>2</sup> (1,064 km<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.

GAGE.--Water-stage recorder. 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 mile (0.3 km) upstream at same datum. Water-stage recorder, on south canal at bridge on State Highway 35, 1 mile (2 km) 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 (549 m) downstream, at same datum. Prior to Oct. 1, 1971, at datum 10.00 ft (3.048 m) higher. Datum of gages is 322.70 ft (98.359 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--36 years, 488 ft<sup>3</sup>/s (13.82 m<sup>3</sup>/s), 16.12 in/yr (409 mm/yr).

EXTREMES.--Current year: Maximum discharge, 26,600 ft<sup>3</sup>/s (753 m<sup>3</sup>/s) Apr. 14 (gage height, 30.20 ft or 9.205 m); maximum gage height, south canal, 31.21 ft (9.513 m) Apr. 14; minimum daily discharge, 26 ft<sup>3</sup>/s (0.74 m<sup>3</sup>/s) Oct. 13, 14.

Period of record: Maximum discharge, 34,600 ft<sup>3</sup>/s (980 m<sup>3</sup>/s) Jan. 7, 1950 (gage height, 23.00 ft or 7.010 m, north canal, site and datum then in use); maximum gage height, south canal, 21.53 ft (6.562 m) Jan. 7, 1950, site and datum then in use; minimum discharge, 2.4 ft<sup>3</sup>/s (0.068 m<sup>3</sup>/s) Oct. 2, 1954.

Prior to canalization, creek reached a stage of 24.5 ft (7.47 m), site and datum then in use, from floodmark, sometime between 1920 and 1925.

REMARKS.--Records good. Discharge computed by combining the flow of individually rated channels.

REVISIONS (WATER YEARS).--WSP 1002: 1943. WSP 1504: 1939-40, 1943-44 (M).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY         | OCT           | NOV      | DEC        | JAN    | FEB       | MAR      | APR    | MAY   | JUN    | JUL   | AUG   | SEP    |
|-------------|---------------|----------|------------|--------|-----------|----------|--------|-------|--------|-------|-------|--------|
| 1           | 600           | 45       | 1,140      | 1,290  | 1,220     | 281      | 367    | 116   | 54     | 40    | 30    | 571    |
| 2           | 403           | 66       | 330        | 1,250  | 617       | 263      | 1,130  | 107   | 319    | 41    | 29    | 2,140  |
| 3           | 436           | 57       | 217        | 962    | 507       | 261      | 1,810  | 107   | 277    | 40    | 96    | 1,650  |
| 4           | 342           | 55       | 596        | 1,180  | 402       | 238      | 2,250  | 163   | 121    | 37    | 86    | 589    |
| 5           | 129           | 242      | 1,140      | 1,200  | 334       | 219      | 1,120  | 583   | 161    | 36    | 63    | 252    |
| 6           | 79            | 328      | 897        | 1,270  | 581       | 201      | 456    | 337   | 2,000  | 169   | 73    | 137    |
| 7           | 57            | 217      | 541        | 2,480  | 2,360     | 187      | 242    | 184   | 2,360  | 207   | 45    | 107    |
| 8           | 43            | 209      | 255        | 2,440  | 3,040     | 178      | 173    | 121   | 1,300  | 117   | 47    | 689    |
| 9           | 38            | 197      | 179        | 2,410  | 2,730     | 163      | 129    | 101   | 360    | 57    | 49    | 985    |
| 10          | 35            | 132      | 151        | 1,760  | 1,200     | 152      | 106    | 88    | 170    | 47    | 45    | 743    |
| 11          | 32            | 90       | 129        | 2,890  | 568       | 153      | 89     | 125   | 106    | 43    | 41    | 534    |
| 12          | 29            | 68       | 115        | 3,240  | 444       | 507      | 2,480  | 634   | 78     | 41    | 43    | 276    |
| 13          | 26            | 59       | 113        | 3,210  | 355       | 871      | 15,200 | 485   | 83     | 34    | 323   | 179    |
| 14          | 26            | 54       | 112        | 2,960  | 333       | 595      | 21,300 | 230   | 112    | 32    | 444   | 132    |
| 15          | 28            | 55       | 134        | 3,560  | 2,680     | 355      | 10,200 | 129   | 85     | 30    | 238   | 107    |
| 16          | 71            | 55       | 250        | 3,680  | 5,370     | 232      | 5,510  | 93    | 62     | 40    | 194   | 89     |
| 17          | 240           | 50       | 204        | 2,600  | 7,500     | 191      | 2,240  | 80    | 54     | 39    | 121   | 75     |
| 18          | 162           | 46       | 162        | 1,230  | 5,900     | 163      | 570    | 71    | 48     | 34    | 244   | 65     |
| 19          | 90            | 45       | 157        | 728    | 4,620     | 158      | 336    | 66    | 52     | 105   | 270   | 65     |
| 20          | 62            | 53       | 1,600      | 2,800  | 2,990     | 255      | 255    | 63    | 54     | 70    | 167   | 58     |
| 21          | 50            | 1,030    | 2,040      | 4,370  | 2,060     | 405      | 211    | 56    | 46     | 49    | 80    | 45     |
| 22          | 42            | 1,390    | 1,770      | 5,440  | 2,930     | 429      | 632    | 53    | 41     | 60    | 53    | 41     |
| 23          | 37            | 1,060    | 938        | 3,730  | 2,890     | 347      | 2,120  | 55    | 525    | 44    | 41    | 38     |
| 24          | 33            | 571      | 399        | 2,950  | 2,010     | 265      | 2,060  | 64    | 1,180  | 40    | 36    | 36     |
| 25          | 32            | 256      | 2,980      | 4,160  | 820       | 219      | 1,320  | 61    | 478    | 44    | 35    | 35     |
| 26          | 29            | 169      | 6,360      | 5,580  | 445       | 233      | 483    | 119   | 172    | 59    | 34    | 49     |
| 27          | 28            | 816      | 9,460      | 5,490  | 347       | 453      | 243    | 244   | 87     | 50    | 33    | 140    |
| 28          | 27            | 3,550    | 7,550      | 5,830  | 316       | 784      | 181    | 168   | 59     | 42    | 34    | 153    |
| 29          | 29            | 4,410    | 4,970      | 5,650  | -----     | 908      | 150    | 92    | 48     | 38    | 41    | 141    |
| 30          | 31            | 3,220    | 1,870      | 5,510  | -----     | 932      | 129    | 70    | 43     | 33    | 89    | 192    |
| 31          | 33            | -----    | 927        | 3,450  | -----     | 640      | -----  | 59    | -----  | 32    | 324   | -----  |
| TOTAL       | 3,299         | 18,595   | 47,686     | 95,300 | 55,569    | 11,238   | 73,492 | 4,924 | 10,535 | 1,750 | 3,448 | 10,313 |
| MEAN        | 106           | 620      | 1,538      | 3,074  | 1,985     | 363      | 2,450  | 159   | 351    | 56.5  | 111   | 344    |
| MAX         | 600           | 4,410    | 9,460      | 5,830  | 7,500     | 932      | 21,300 | 634   | 2,360  | 207   | 444   | 2,140  |
| MIN         | 26            | 45       | 112        | 728    | 316       | 152      | 89     | 53    | 41     | 30    | 29    | 35     |
| CFSM        | .26           | 1.51     | 3.74       | 7.48   | 4.83      | .88      | 5.96   | .39   | .85    | .14   | .27   | .84    |
| IN.         | .30           | 1.68     | 4.32       | 8.63   | 5.03      | 1.02     | 6.65   | .45   | .95    | .16   | .31   | .93    |
| CAL YR 1973 | TOTAL 326,433 | MEAN 894 | MAX 15,200 | MIN 21 | CFSM 2.18 | IN 29.55 |        |       |        |       |       |        |
| WTR YR 1974 | TOTAL 336,149 | MEAN 921 | MAX 21,300 | MIN 26 | CFSM 2.24 | IN 30.43 |        |       |        |       |       |        |

## PEAK DISCHARGE (BASE, 4,000 CFS)

| DATE  | TIME | G. H. | DISCHARGE | DATE  | TIME | G. H. | DISCHARGE |
|-------|------|-------|-----------|-------|------|-------|-----------|
| 11-29 | 1400 | 25.44 | 4,640     | 01-28 | 1500 | 26.25 | 6,630     |
| 12-27 | 0700 | 27.24 | 9,800     | 02-17 | 0930 | 26.63 | 7,870     |
| 01-22 | 0345 | 25.95 | 5,770     | 04-14 | 0045 | 30.20 | 26,600    |



## PEARL RIVER BASIN

02484000 Yockanookany River near Kosciusko, Miss.

LOCATION.--Lat 33°01'55", long 89°34'40", in NE¼NE¼ sec.33, T.14 N., R.7 E., Choctaw meridian, Attala County, on left bank at downstream side of bridge on State Highway 35, 2 miles (3 km) south of Kosciusko.

DRAINAGE AREA.--314 mi<sup>2</sup> (813 km<sup>2</sup>).

PERIOD OF RECORD.--August 1938 to current year. Prior to October 1947, published as Yokahockany River near Kosciusko.

GAGE.--Water-stage recorder. Datum of gage is 374.34 ft (114.099 m) above mean sea level (levels by Corps of Engineers). Prior to Mar. 28, 1939, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--36 years, 410 ft<sup>3</sup>/s (11.61 m<sup>3</sup>/s), 17.73 in/yr (450 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,560 ft<sup>3</sup>/s (214 m<sup>3</sup>/s) Dec. 27 (gage height, 15.70 ft or 4.785 m); minimum, 12 ft<sup>3</sup>/s (0.34 m<sup>3</sup>/s) Oct. 13; minimum gage height, 5.36 ft (1.634 m) July 12, 14.  
Period of record: Maximum discharge, 19,300 ft<sup>3</sup>/s (547 m<sup>3</sup>/s) Mar. 29, 1951 (gage height, 18.72 ft or 5.706 m); minimum, 2.3 ft<sup>3</sup>/s (0.07 m<sup>3</sup>/s) Aug. 20-24, 1943; minimum gage height, 0.10 ft (0.030 m) Sept. 5-6, 1939.

Flood in December 1932 reached a stage of about 17 ft (5.2 m), from information by Corps of Engineers.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1504: 1946.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY         | OCT           | NOV      | DEC        | JAN    | FEB       | MAR      | APR    | MAY   | JUN    | JUL   | AUG   | SEP   |
|-------------|---------------|----------|------------|--------|-----------|----------|--------|-------|--------|-------|-------|-------|
| 1           | 265           | 66       | 840        | 356    | 1,250     | 206      | 1,360  | 126   | 160    | 52    | 40    | 94    |
| 2           | 80            | 52       | 270        | 250    | 594       | 191      | 651    | 131   | 260    | 45    | 38    | 100   |
| 3           | 64            | 37       | 165        | 643    | 531       | 182      | 708    | 137   | 164    | 40    | 35    | 78    |
| 4           | 46            | 48       | 263        | 2,150  | 429       | 171      | 501    | 147   | 102    | 35    | 35    | 57    |
| 5           | 34            | 318      | 419        | 1,990  | 298       | 157      | 393    | 429   | 141    | 33    | 39    | 49    |
| 6           | 28            | 214      | 303        | 2,390  | 443       | 145      | 272    | 278   | 1,020  | 52    | 34    | 44    |
| 7           | 23            | 104      | 174        | 3,680  | 1,740     | 138      | 219    | 167   | 1,270  | 45    | 32    | 42    |
| 8           | 20            | 139      | 135        | 3,080  | 2,000     | 129      | 209    | 126   | 1,500  | 36    | 46    | 42    |
| 9           | 18            | 613      | 120        | 3,860  | 1,640     | 119      | 204    | 108   | 1,350  | 30    | 57    | 47    |
| 10          | 22            | 991      | 111        | 4,370  | 1,000     | 112      | 180    | 95    | 494    | 29    | 45    | 48    |
| 11          | 18            | 409      | 103        | 3,740  | 499       | 137      | 163    | 114   | 326    | 32    | 38    | 59    |
| 12          | 16            | 130      | 99         | 4,160  | 308       | 299      | 703    | 250   | 180    | 32    | 91    | 60    |
| 13          | 14            | 91       | 103        | 4,020  | 245       | 347      | 3,330  | 194   | 126    | 39    | 221   | 45    |
| 14          | 16            | 76       | 99         | 3,490  | 248       | 201      | 3,570  | 130   | 104    | 32    | 389   | 39    |
| 15          | 20            | 71       | 93         | 3,180  | 1,710     | 143      | 4,060  | 94    | 85     | 31    | 249   | 36    |
| 16          | 353           | 67       | 88         | 2,740  | 3,170     | 134      | 2,470  | 86    | 75     | 31    | 92    | 34    |
| 17          | 207           | 64       | 84         | 2,760  | 3,020     | 137      | 807    | 87    | 66     | 31    | 60    | 31    |
| 18          | 89            | 60       | 80         | 2,140  | 2,750     | 117      | 326    | 74    | 142    | 37    | 46    | 29    |
| 19          | 52            | 58       | 97         | 977    | 1,690     | 126      | 241    | 63    | 241    | 323   | 38    | 28    |
| 20          | 38            | 73       | 533        | 1,480  | 876       | 780      | 208    | 54    | 147    | 175   | 34    | 26    |
| 21          | 28            | 875      | 1,150      | 2,970  | 614       | 2,170    | 181    | 46    | 99     | 397   | 31    | 25    |
| 22          | 25            | 1,850    | 707        | 2,770  | 2,120     | 2,290    | 520    | 45    | 74     | 343   | 29    | 25    |
| 23          | 22            | 1,220    | 316        | 3,090  | 2,290     | 1,730    | 1,970  | 64    | 342    | 132   | 27    | 23    |
| 24          | 21            | 515      | 356        | 3,600  | 2,420     | 779      | 1,810  | 67    | 1,180  | 138   | 26    | 21    |
| 25          | 20            | 220      | 3,370      | 5,210  | 1,470     | 379      | 1,490  | 53    | 1,210  | 104   | 25    | 26    |
| 26          | 18            | 223      | 5,430      | 6,670  | 519       | 302      | 550    | 483   | 465    | 83    | 24    | 55    |
| 27          | 18            | 811      | 6,850      | 5,110  | 281       | 277      | 244    | 847   | 143    | 72    | 24    | 59    |
| 28          | 22            | 2,620    | 6,620      | 3,610  | 229       | 270      | 190    | 363   | 96     | 69    | 25    | 63    |
| 29          | 24            | 2,240    | 4,240      | 3,310  | -----     | 1,940    | 158    | 151   | 75     | 66    | 104   | 259   |
| 30          | 24            | 1,750    | 2,010      | 2,930  | -----     | 2,540    | 140    | 95    | 63     | 54    | 350   | 134   |
| 31          | 39            | -----    | 708        | 2,580  | -----     | 2,080    | -----  | 71    | -----  | 45    | 140   | ----- |
| TOTAL       | 1,684         | 16,005   | 35,936     | 93,306 | 34,374    | 18,728   | 27,828 | 5,175 | 11,700 | 2,663 | 2,464 | 1,678 |
| MEAN        | 54.3          | 534      | 1,159      | 3,010  | 1,228     | 604      | 928    | 167   | 390    | 85.9  | 79.5  | 55.9  |
| MAX         | 353           | 2,620    | 6,850      | 6,670  | 3,170     | 2,540    | 4,060  | 847   | 1,500  | 397   | 389   | 259   |
| MIN         | 14            | 37       | 80         | 250    | 229       | 112      | 140    | 45    | 63     | 29    | 24    | 21    |
| CFSM        | .17           | 1.70     | 3.69       | 9.59   | 3.91      | 1.92     | 2.96   | .53   | 1.24   | .27   | .25   | .18   |
| IN.         | .20           | 1.90     | 4.26       | 11.05  | 4.07      | 2.22     | 3.30   | .61   | 1.39   | .32   | .29   | .20   |
| CAL YR 1973 | TOTAL 260,596 | MEAN 714 | MAX 15,100 | MIN 14 | CFSM 2.27 | IN 30.87 |        |       |        |       |       |       |
| WTR YR 1974 | TOTAL 251,541 | MEAN 689 | MAX 6,850  | MIN 14 | CFSM 2.19 | IN 29.80 |        |       |        |       |       |       |

## PEAK DISCHARGE (BASE, 3,000 CFS)

| DATE  | TIME | G. H. | DISCHARGE | DATE  | TIME | G. H. | DISCHARGE |
|-------|------|-------|-----------|-------|------|-------|-----------|
| 12-27 | 2000 | 15.70 | 7,560     | 02-16 | 1100 | 13.70 | 3,240     |
| 01-10 | 0600 | 14.50 | 4,700     | 03-30 | 0100 | 13.76 | 3,340     |
| 01-26 | 1300 | 15.47 | 6,960     | 04-15 | 0600 | 14.48 | 4,660     |

## PEARL RIVER BASIN

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02484500 Yockanookany River near Ofahoma, Miss.

LOCATION.--Lat 32°42'20", long 89°40'20", in NE¼NW¼ sec.22, T.10 N., R.6 E., Choctaw meridian, Leake County, near center of main span on downstream side of bridge on State Highway 16, 1.5 miles (2.4 km) east of Ofahoma, 3 miles (5 km) upstream from mouth, and 8.5 miles (13.7 km) southwest of Carthage.

DRAINAGE AREA.--484 mi<sup>2</sup> (1,254 km<sup>2</sup>).

PERIOD OF RECORD.--October 1943 to current year. Prior to October 1947, published as Yokahockany River near Ofahoma.

GAGE.--Water-stage recorder. Datum of gage is 311.15 ft (94.839 m) above mean sea level (levels by Corps of Engineers). Prior to Sept. 5, 1962, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--31 years, 656 ft<sup>3</sup>/s (18.58 m<sup>3</sup>/s), 18.41 in/yr (468 mm/yr).

EXTREMES.--Current year: Maximum discharge, 10,200 ft<sup>3</sup>/s (289 m<sup>3</sup>/s) Jan. 25 (gage height, 17.86 ft or 5.444 m); minimum, 21 ft<sup>3</sup>/s (0.59 m<sup>3</sup>/s) Oct. 15; minimum gage height, 1.97 ft (0.600 m) Aug. 28.

Period of record: Maximum discharge, 20,700 ft<sup>3</sup>/s (586 m<sup>3</sup>/s) Mar. 31, 1951 (gage height, 20.28 ft or 6.181 m); minimum, 4.9 ft<sup>3</sup>/s (0.14 m<sup>3</sup>/s) Aug. 20, Sept. 11, 1954; minimum gage height, 1.86 ft (0.567 m) Sept. 26, 27, 1973.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1204: 1948. WSP 1504: 1949.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT   | NOV    | DEC    | JAN     | FEB    | MAR    | APR    | MAY    | JUN    | JUL   | AUG   | SEP   |
|-------|-------|--------|--------|---------|--------|--------|--------|--------|--------|-------|-------|-------|
| 1     | 276   | 45     | 2,630  | 3,960   | 3,840  | 1,100  | 3,260  | 283    | 239    | 141   | 77    | 365   |
| 2     | 351   | 55     | 2,390  | 2,500   | 3,450  | 717    | 3,390  | 230    | 207    | 109   | 68    | 355   |
| 3     | 366   | 68     | 1,920  | 1,860   | 2,760  | 531    | 2,970  | 202    | 307    | 90    | 60    | 220   |
| 4     | 181   | 65     | 1,450  | 2,320   | 1,890  | 446    | 1,990  | 192    | 353    | 79    | 57    | 193   |
| 5     | 90    | 289    | 957    | 1,850   | 1,290  | 395    | 1,350  | 193    | 286    | 72    | 54    | 147   |
| 6     | 61    | 287    | 642    | 2,140   | 1,040  | 354    | 1,080  | 243    | 799    | 67    | 51    | 110   |
| 7     | 48    | 348    | 590    | 6,230   | 1,110  | 312    | 863    | 382    | 873    | 193   | 53    | 91    |
| 8     | 40    | 392    | 553    | 6,930   | 1,280  | 278    | 619    | 400    | 948    | 238   | 56    | 85    |
| 9     | 35    | 246    | 406    | 5,740   | 1,550  | 256    | 407    | 254    | 2,270  | 123   | 58    | 78    |
| 10    | 30    | 233    | 261    | 7,300   | 2,130  | 238    | 311    | 179    | 3,020  | 83    | 59    | 76    |
| 11    | 27    | 372    | 204    | 8,010   | 2,170  | 223    | 265    | 164    | 2,130  | 68    | 73    | 93    |
| 12    | 25    | 509    | 181    | 7,030   | 1,820  | 290    | 977    | 235    | 1,560  | 60    | 73    | 146   |
| 13    | 25    | 625    | 166    | 5,660   | 1,370  | 415    | 5,930  | 278    | 994    | 58    | 65    | 141   |
| 14    | 23    | 476    | 156    | 5,200   | 968    | 502    | 5,780  | 310    | 496    | 56    | 145   | 118   |
| 15    | 22    | 201    | 159    | 6,350   | 1,410  | 557    | 5,650  | 254    | 254    | 73    | 303   | 91    |
| 16    | 40    | 132    | 154    | 6,080   | 3,660  | 490    | 5,760  | 179    | 189    | 164   | 363   | 75    |
| 17    | 244   | 104    | 141    | 4,710   | 4,600  | 339    | 5,760  | 135    | 154    | 93    | 357   | 67    |
| 18    | 450   | 88     | 130    | 3,660   | 4,600  | 267    | 4,370  | 116    | 131    | 64    | 213   | 61    |
| 19    | 497   | 79     | 127    | 3,200   | 4,130  | 284    | 2,760  | 112    | 117    | 66    | 118   | 57    |
| 20    | 259   | 77     | 488    | 3,350   | 3,830  | 712    | 1,640  | 100    | 182    | 114   | 87    | 52    |
| 21    | 109   | 462    | 541    | 3,480   | 3,130  | 806    | 862    | 89     | 263    | 250   | 72    | 49    |
| 22    | 65    | 633    | 599    | 2,840   | 3,690  | 867    | 653    | 83     | 203    | 258   | 62    | 47    |
| 23    | 50    | 662    | 742    | 3,500   | 3,100  | 1,160  | 1,140  | 80     | 205    | 321   | 56    | 44    |
| 24    | 42    | 833    | 915    | 5,770   | 2,630  | 1,990  | 1,050  | 77     | 268    | 379   | 50    | 43    |
| 25    | 37    | 1,050  | 4,150  | 8,820   | 2,740  | 2,290  | 1,250  | 83     | 364    | 374   | 46    | 42    |
| 26    | 33    | 1,190  | 6,680  | 7,420   | 2,730  | 1,890  | 1,860  | 1,050  | 537    | 256   | 44    | 52    |
| 27    | 30    | 1,140  | 7,450  | 7,380   | 2,460  | 1,290  | 1,940  | 2,330  | 776    | 168   | 43    | 57    |
| 28    | 29    | 2,140  | 7,550  | 7,950   | 1,740  | 812    | 1,580  | 1,480  | 953    | 126   | 41    | 97    |
| 29    | 29    | 2,800  | 7,630  | 7,560   | -----  | 872    | 950    | 1,200  | 648    | 104   | 52    | 102   |
| 30    | 28    | 2,540  | 7,600  | 5,540   | -----  | 1,810  | 446    | 995    | 231    | 94    | 73    | 132   |
| 31    | 37    | -----  | 5,990  | 4,570   | -----  | 2,680  | -----  | 533    | -----  | 88    | 177   | ----- |
| TOTAL | 3,579 | 18,141 | 63,552 | 159,390 | 71,118 | 25,173 | 66,863 | 12,441 | 19,957 | 4,429 | 3,106 | 3,276 |
| MEAN  | 115   | 605    | 2,050  | 5,142   | 2,540  | 812    | 2,229  | 401    | 665    | 143   | 100   | 109   |
| MAX   | 497   | 2,800  | 7,630  | 8,820   | 4,600  | 2,680  | 5,930  | 2,330  | 3,020  | 379   | 363   | 365   |
| MIN   | 22    | 45     | 127    | 1,860   | 968    | 223    | 265    | 77     | 117    | 56    | 41    | 42    |
| CFSM  | .24   | 1.25   | 4.24   | 10.6    | 5.25   | 1.68   | 4.61   | .83    | 1.37   | .30   | .21   | .23   |
| IN.   | .28   | 1.39   | 4.98   | 12.25   | 5.47   | 1.93   | 5.14   | .96    | 1.53   | .34   | .24   | .25   |

CAL YR 1973 TOTAL 421,609 MEAN 1,155 MAX 14,400 MIN 18 CFSM 2.39 IN 32.40  
WTR YR 1974 TOTAL 451,025 MEAN 1,236 MAX 8,820 MIN 22 CFSM 2.55 IN 34.67

## PEARL RIVER BASIN

02486000 Pearl River at Jackson, Miss.

LOCATION.--Lat 32°17'20", long 90°10'45", in NE¼SE¼ sec.10, T.5 N., R.1 E., Choctaw meridian, Rankin County, on left bank at downstream side of Woodrow Wilson Bridge at eastern city limits of Jackson, 0.2 mile (0.3 km) upstream from Illinois Central Railroad bridge, 0.2 mile (0.3 km) upstream from Town Creek, 4.5 miles (7.2 km) upstream from Richland Creek, and at mile 287.6 (462.7 km).

DRAINAGE AREA.--3,100 mi<sup>2</sup> (8,030 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--June 1901 to December 1913 (prior to October 1901 and for 1913, gage heights only), August 1928 to current year. Gage-height records collected at same site since 1904 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 234.90 ft (71.598 m) above mean sea level (levels by Corps of Engineers). Prior to Dec. 31, 1913; and Aug. 15, 1928, to Sept. 14, 1934, nonrecording gage at same site and datum. Since Oct. 1, 1962, auxiliary water-stage recorder and concrete control at Jackson waterworks pumping plant, 7 miles (11 km) upstream. Datum of auxiliary gage is 239.40 ft (72.969 m) above mean sea level.

AVERAGE DISCHARGE.--57 years (1901-12, 1928-73), 3,846 ft<sup>3</sup>/s (108.9 m<sup>3</sup>/s), 16.85 in/yr (428 mm/yr).

EXTREMES.--Current year: Maximum discharge, 40,200 ft<sup>3</sup>/s (1,138 m<sup>3</sup>/s) Apr. 19 (gage height, 34.36 ft or 10.473 m at Woodrow Wilson Bridge); maximum gage height at waterworks, 31.90 ft or 9.723 m Apr. 19; minimum daily discharge, 92 ft<sup>3</sup>/s (2.61 m<sup>3</sup>/s) Nov. 18.

Period of record: Maximum discharge, 85,000 ft<sup>3</sup>/s (2,410 m<sup>3</sup>/s) Mar. 31, 1902 (gage height, 37.5 ft or 11.43 m) from rating curve extended above 57,000 ft<sup>3</sup>/s (1,610 m<sup>3</sup>/s); minimum daily discharge, 45 ft<sup>3</sup>/s (1.27 m<sup>3</sup>/s) Oct. 5, 1956, Sept. 18, 1963, regulated; minimum daily unregulated, 78 ft<sup>3</sup>/s (2.21 m<sup>3</sup>/s) Oct. 11, 1954; minimum unregulated gage height, 0.20 ft (0.061 m) Nov. 4, 5, 1911.

According to information by local residents and from newspaper records, the flood of Apr. 25, 1874, reached a stage of 37 ft (11.3 m); and the flood of Dec. 5, 1880, reached a stage of 36½ ft (11¼ m). The flood of Apr. 21, 1900, reached a stage of 36.7 ft (11.19 m), according to the Alabama and Vicksburg Railroad plans confirmed by local residents.

REMARKS.--Records good. About 35 ft<sup>3</sup>/s (0.99 m<sup>3</sup>/s) is diverted upstream from station for municipal water supply for city of Jackson, most of which is returned to river and is included in discharge records. Flow regulated since Sept. 27, 1961, by Ross R. Barnett Reservoir, 19 miles (31 km) upstream.

REVISIONS (WATER YEARS).--WSP 662: Drainage area. WSP 1504: 1903, 1909.

## DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT    | NOV    | DEC     | JAN     | FEB     | MAR       | APR     | MAY    | JUN     | JUL    | AUG    | SEP    |
|-------|--------|--------|---------|---------|---------|-----------|---------|--------|---------|--------|--------|--------|
| 1     | 439    | 397    | 11,200  | 31,500  | 35,400  | 11,700    | 7,440   | 3,420  | 5,210   | 1,780  | 320    | 1,450  |
| 2     | 1,050  | 387    | 11,900  | 31,200  | 32,400  | 10,400    | 8,580   | 2,740  | 3,030   | 1,450  | 314    | 1,870  |
| 3     | 1,120  | 553    | 11,500  | 30,900  | 29,100  | 9,350     | 9,900   | 2,430  | 2,590   | 929    | 439    | 2,800  |
| 4     | 1,340  | 1,020  | 11,200  | 29,100  | 27,100  | 7,420     | 10,000  | 1,920  | 2,200   | 870    | 353    | 3,440  |
| 5     | 1,320  | 1,550  | 10,300  | 22,800  | 22,500  | 4,270     | 10,500  | 1,390  | 1,770   | 851    | 325    | 3,270  |
| 6     | 753    | 1,770  | 9,410   | 17,700  | 17,200  | 3,030     | 10,200  | 2,440  | 4,780   | 858    | 322    | 2,930  |
| 7     | 711    | 2,170  | 8,910   | 16,300  | 14,500  | 2,750     | 10,400  | 2,450  | 5,420   | 921    | 325    | 2,330  |
| 8     | 620    | 2,510  | 8,510   | 15,100  | 13,300  | 2,570     | 9,530   | 2,220  | 7,920   | 1,180  | 350    | 4,520  |
| 9     | 370    | 3,070  | 8,390   | 14,200  | 12,500  | 2,530     | 7,910   | 1,470  | 3,260   | 1,180  | 334    | 2,720  |
| 10    | 370    | 3,040  | 8,110   | 21,200  | 11,700  | 2,590     | 7,100   | 1,220  | 5,000   | 1,140  | 334    | 1,990  |
| 11    | 342    | 2,900  | 5,740   | 25,600  | 11,100  | 2,500     | 5,740   | 2,050  | 5,080   | 859    | 328    | 1,890  |
| 12    | 342    | 2,770  | 5,040   | 29,500  | 10,500  | 2,700     | 7,290   | 2,700  | 5,290   | 793    | 554    | 1,750  |
| 13    | 315    | 1,810  | 2,520   | 30,200  | 9,500   | 2,530     | 19,400  | 1,570  | 5,340   | 499    | 583    | 1,570  |
| 14    | 328    | 1,070  | 2,300   | 31,100  | 7,790   | 2,750     | 29,700  | 1,550  | 5,090   | 478    | 862    | 1,050  |
| 15    | 355    | 555    | 2,250   | 33,400  | 9,730   | 2,710     | 33,200  | 1,520  | 3,930   | 473    | 1,280  | 1,010  |
| 16    | 740    | 388    | 2,230   | 33,500  | 15,500  | 2,890     | 35,400  | 2,230  | 3,260   | 555    | 1,340  | 958    |
| 17    | 1,150  | 155    | 2,210   | 33,100  | 14,500  | 2,530     | 35,100  | 1,470  | 2,520   | 803    | 1,290  | 737    |
| 18    | 1,090  | 92     | 2,150   | 32,300  | 21,300  | 2,530     | 38,400  | 1,200  | 1,810   | 818    | 1,250  | 595    |
| 19    | 1,030  | 823    | 2,230   | 27,900  | 25,100  | 2,230     | 39,700  | 1,180  | 1,330   | 1,030  | 723    | 642    |
| 20    | 1,090  | 2,310  | 3,310   | 25,400  | 25,000  | 2,230     | 35,900  | 1,170  | 1,290   | 752    | 588    | 473    |
| 21    | 1,070  | 2,380  | 5,350   | 24,800  | 25,400  | 2,850     | 27,300  | 1,170  | 1,170   | 510    | 588    | 393    |
| 22    | 953    | 2,830  | 5,920   | 21,000  | 27,500  | 3,750     | 19,000  | 1,440  | 959     | 539    | 625    | 343    |
| 23    | 399    | 3,930  | 5,310   | 21,400  | 23,900  | 3,910     | 20,500  | 1,490  | 948     | 747    | 408    | 348    |
| 24    | 318    | 4,900  | 5,930   | 28,700  | 21,700  | 3,920     | 14,300  | 891    | 1,030   | 822    | 323    | 310    |
| 25    | 303    | 5,150  | 11,500  | 34,200  | 20,500  | 4,080     | 11,500  | 809    | 1,350   | 800    | 303    | 712    |
| 26    | 301    | 4,950  | 15,300  | 34,900  | 15,700  | 4,550     | 10,700  | 835    | 2,490   | 952    | 359    | 920    |
| 27    | 302    | 5,000  | 22,400  | 33,700  | 13,500  | 5,030     | 10,000  | 1,090  | 2,450   | 1,170  | 373    | 730    |
| 28    | 305    | 4,200  | 30,400  | 34,500  | 12,500  | 7,030     | 9,010   | 3,340  | 2,120   | 1,050  | 449    | 544    |
| 29    | 259    | 4,750  | 33,000  | 34,900  | -----   | 7,550     | 8,020   | 5,400  | 1,310   | 742    | 400    | 1,380  |
| 30    | 251    | 10,400 | 32,100  | 35,500  | -----   | 7,210     | 9,920   | 3,900  | 1,780   | 394    | 1,020  | 733    |
| 31    | 557    | -----  | 31,500  | 35,300  | -----   | 7,270     | -----   | 3,930  | -----   | 334    | 1,990  | -----  |
| TOTAL | 20,077 | 37,721 | 333,349 | 577,500 | 533,500 | 1,110,070 | 509,340 | 53,315 | 103,835 | 26,439 | 19,371 | 44,338 |
| MEAN  | 648    | 2,424  | 10,750  | 28,310  | 19,050  | 4,551     | 16,990  | 2,042  | 3,451   | 854    | 625    | 1,473  |
| MAX   | 1,350  | 10,400 | 33,300  | 35,500  | 35,400  | 11,700    | 39,700  | 5,400  | 3,260   | 1,790  | 1,990  | 4,520  |
| MIN   | 251    | 92     | 2,150   | 15,100  | 7,790   | 2,230     | 5,920   | 809    | 948     | 334    | 303    | 310    |
| CFS   | 2.21   | 9.44   | 3.47    | 9.13    | 5.15    | 1.47      | 5.43    | .55    | 1.12    | .28    | .20    | .48    |
| IN    | .24    | 1.05   | 4.00    | 10.73   | 5.40    | 1.59      | 6.12    | .75    | 1.25    | .32    | .23    | .53    |

02488500 Pearl River near Monticello, Miss.

LOCATION.--Lat 31°33', long 90°05', in SW¼ sec.23, T.7 N., R.21 W., St. Stephens meridian, Lawrence County, near left bank on downstream side of pier of bridge on U.S. Highway 84, 1.0 mile (1.6 km) east of Monticello, 2.5 miles (4.0 km) upstream from Halls Creek, 3 miles (5 km) upstream from Silver Creek, and at mile 190.8 (307.0 km).

DRAINAGE AREA.--5,040 mi<sup>2</sup> (13,050 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--October 1938 to current year. Gage-height records collected in vicinity since 1924, are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 158.66 ft (48.360 m) above mean sea level (levels by 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.

AVERAGE DISCHARGE.--36 years, 6,242 ft<sup>3</sup>/s (176.8 m<sup>3</sup>/s), 16.82 in/yr (427 mm/yr).

EXTREMES.--Current year: Maximum discharge, 78,200 ft<sup>3</sup>/s (2,210 m<sup>3</sup>/s) Apr. 14 (gage height, 32.28 ft or 9.839 m); minimum, 624 ft<sup>3</sup>/s (17.7 m<sup>3</sup>/s) Sept. 25; minimum gage height, 4.90 ft (1.494 m) Oct. 31.

Period of record: Maximum discharge, 78,200 ft<sup>3</sup>/s (2,210 m<sup>3</sup>/s) Apr. 14, 1974 (gage height, 32.28 ft or 9.839 m); minimum, 269 ft<sup>3</sup>/s (7.62 m<sup>3</sup>/s) Oct. 24, 1963.

Flood in April 1902 reached a stage of about 33 ft (10 m), from reports of National Weather Service; discharge, about 100,000 ft<sup>3</sup>/s (2,830 m<sup>3</sup>/s), from rating curve extended above 70,000 ft<sup>3</sup>/s or 1,980 m<sup>3</sup>/s. A discharge of 69,900 ft<sup>3</sup>/s (1,980 m<sup>3</sup>/s) was measured Apr. 8, 1938, by Corps of Engineers (gage height, 30.15 ft or 9.190 m, from floodmark).

REMARKS.--Records good. Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1504: 1939, 1949.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY         | OCT    | NOV       | DEC     | JAN      | FEB     | MAR     | APR     | MAY     | JUN     | JUL    | AUG    | SEP    |
|-------------|--------|-----------|---------|----------|---------|---------|---------|---------|---------|--------|--------|--------|
| 1           | 1,860  | 753       | 13,800  | 30,200   | 45,300  | 26,800  | 10,400  | 12,900  | 4,740   | 2,100  | 1,230  | 3,680  |
| 2           | 2,040  | 928       | 12,600  | 30,700   | 43,500  | 24,300  | 15,000  | 9,450   | 6,440   | 2,050  | 977    | 4,380  |
| 3           | 1,590  | 944       | 11,800  | 32,000   | 41,600  | 21,500  | 18,600  | 6,820   | 7,130   | 2,010  | 900    | 3,840  |
| 4           | 1,550  | 856       | 12,100  | 33,600   | 40,000  | 18,600  | 17,400  | 5,760   | 5,080   | 1,710  | 875    | 3,450  |
| 5           | 1,540  | 2,720     | 12,700  | 34,800   | 38,500  | 15,600  | 15,500  | 5,540   | 4,390   | 1,360  | 911    | 3,810  |
| 6           | 1,690  | 4,800     | 12,900  | 35,200   | 36,900  | 11,800  | 14,400  | 5,580   | 4,390   | 1,270  | 906    | 4,010  |
| 7           | 1,630  | 3,310     | 12,300  | 35,500   | 35,800  | 7,550   | 13,400  | 4,860   | 5,470   | 1,400  | 840    | 3,810  |
| 8           | 1,280  | 2,750     | 11,200  | 35,600   | 34,700  | 5,770   | 12,700  | 4,690   | 7,690   | 1,470  | 790    | 3,650  |
| 9           | 1,110  | 3,570     | 10,100  | 34,300   | 33,200  | 5,160   | 12,200  | 4,530   | 7,590   | 1,400  | 825    | 4,400  |
| 10          | 1,090  | 4,530     | 9,270   | 31,800   | 31,300  | 4,890   | 11,600  | 3,960   | 8,150   | 1,610  | 885    | 5,210  |
| 11          | 958    | 4,020     | 8,860   | 30,200   | 28,500  | 4,770   | 10,200  | 3,560   | 8,460   | 1,720  | 830    | 4,290  |
| 12          | 863    | 3,700     | 8,400   | 30,900   | 25,000  | 6,310   | 14,600  | 4,550   | 7,350   | 1,560  | 780    | 3,300  |
| 13          | 816    | 3,460     | 7,380   | 31,000   | 21,100  | 11,400  | 56,000  | 4,720   | 6,770   | 1,380  | 800    | 2,820  |
| 14          | 803    | 3,100     | 5,310   | 30,900   | 18,000  | 9,580   | 76,200  | 4,680   | 6,830   | 1,250  | 795    | 2,480  |
| 15          | 797    | 2,300     | 3,720   | 31,000   | 15,800  | 6,730   | 68,000  | 3,500   | 6,770   | 1,190  | 1,230  | 2,190  |
| 16          | 858    | 1,640     | 3,300   | 31,900   | 19,400  | 5,530   | 59,100  | 3,150   | 6,130   | 1,180  | 1,440  | 1,600  |
| 17          | 1,090  | 1,260     | 3,170   | 33,500   | 24,400  | 5,010   | 52,300  | 3,250   | 4,730   | 1,260  | 1,790  | 1,400  |
| 18          | 1,740  | 978       | 3,040   | 34,700   | 26,800  | 4,790   | 46,700  | 3,350   | 3,840   | 1,380  | 2,440  | 1,280  |
| 19          | 1,730  | 842       | 3,010   | 36,800   | 27,900  | 4,540   | 42,200  | 2,800   | 3,150   | 1,420  | 3,240  | 1,130  |
| 20          | 1,530  | 749       | 6,840   | 39,900   | 28,900  | 4,240   | 39,500  | 2,470   | 2,380   | 1,400  | 2,510  | 1,050  |
| 21          | 1,470  | 3,230     | 9,590   | 40,800   | 29,500  | 4,240   | 38,400  | 2,390   | 1,910   | 1,300  | 1,350  | 950    |
| 22          | 1,400  | 9,070     | 9,350   | 40,500   | 30,700  | 4,780   | 38,900  | 2,470   | 1,750   | 1,260  | 1,080  | 830    |
| 23          | 1,350  | 7,810     | 8,860   | 39,400   | 31,400  | 5,240   | 39,400  | 2,820   | 1,650   | 1,250  | 1,020  | 728    |
| 24          | 1,290  | 5,840     | 7,870   | 40,900   | 31,800  | 5,720   | 37,500  | 3,030   | 1,580   | 1,280  | 977    | 682    |
| 25          | 1,020  | 5,600     | 15,400  | 43,700   | 31,900  | 6,050   | 34,500  | 2,670   | 1,520   | 1,350  | 850    | 644    |
| 26          | 828    | 6,010     | 25,500  | 43,900   | 31,400  | 6,350   | 31,500  | 2,260   | 1,520   | 1,450  | 785    | 1,110  |
| 27          | 748    | 6,300     | 29,700  | 43,000   | 30,200  | 9,420   | 28,400  | 2,360   | 2,180   | 1,500  | 728    | 2,790  |
| 28          | 138    | 12,700    | 31,000  | 44,200   | 28,700  | 12,700  | 25,100  | 2,380   | 2,680   | 1,550  | 795    | 1,960  |
| 29          | 760    | 16,400    | 30,500  | 47,900   | -----   | 12,400  | 20,500  | 2,630   | 2,630   | 1,600  | 1,050  | 1,540  |
| 30          | 742    | 15,500    | 29,900  | 47,900   | -----   | 11,400  | 16,500  | 4,660   | 2,330   | 1,550  | 1,360  | 3,140  |
| 31          | 724    | -----     | 30,000  | 46,900   | -----   | 11,000  | -----   | 5,360   | -----   | 1,400  | 1,510  | -----  |
| TOTAL       | 37,635 | 135,670   | 399,470 | 1,143,6M | 862,200 | 294,170 | 916,700 | 133,150 | 137,230 | 45,610 | 36,499 | 76,154 |
| MEAN        | 1,214  | 4,522     | 12,890  | 36,890   | 30,790  | 9,489   | 30,560  | 4,295   | 4,574   | 1,471  | 1,177  | 2,538  |
| MAX         | 2,040  | 16,400    | 31,000  | 47,900   | 45,300  | 26,800  | 76,200  | 12,900  | 8,460   | 2,100  | 3,240  | 5,210  |
| MIN         | 724    | 749       | 3,010   | 30,200   | 15,800  | 4,240   | 10,200  | 2,260   | 1,520   | 1,180  | 728    | 644    |
| CFSM        | .24    | .90       | 2.56    | 7.32     | 6.11    | 1.88    | 6.06    | .85     | .91     | .29    | .23    | .50    |
| IN.         | .28    | 1.00      | 2.95    | 8.44     | 6.36    | 2.17    | 6.77    | .98     | 1.01    | .34    | .27    | .56    |
| CAL YR 1973 | TOTAL  | 3,772,488 | MEAN    | 10,340   | MAX     | 49,400  | MIN     | 724     | CFSM    | 2.05   | IN     | 27.84  |
| WTR YR 1974 | TOTAL  | 4,218,088 | MEAN    | 11,560   | MAX     | 76,200  | MIN     | 644     | CFSM    | 2.29   | IN     | 31.13  |

## PEARL RIVER BASIN

02488700 Whitesand Creek near Oak Vale, Miss.

LOCATION.--Lat 31°28', long 89°58', in SW¼ sec.24, T.6 N., R.20 W., St. Stephens meridian, Lawrence County, near right bank on downstream side of bridge on State Highway 43, 1.2 miles (1.9 km) upstream from Illinois Central Railroad bridge, 2.3 miles (3.7 km) north of Oak Vale, and 3.7 miles (6.0 km) upstream from mouth.

DRAINAGE AREA.--131 mi<sup>2</sup> (339 km<sup>2</sup>).

PERIOD OF RECORD.--September 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 182.20 ft (55.535 m) above mean sea level (from information by Mississippi State Highway Department).

AVERAGE DISCHARGE.--9 years, 177 ft<sup>3</sup>/s (5.013 m<sup>3</sup>/s), 18.35 in/yr (466 mm/yr).

EXTREMES.--Current year: Maximum discharge, 25,400 ft<sup>3</sup>/s (719 m<sup>3</sup>/s) Apr. 13 (gage height, 18.76 ft or 5.718 m); minimum, 79 ft<sup>3</sup>/s (2.24 m<sup>3</sup>/s) Aug. 24, 25, 26; minimum gage height, 3.71 ft (1.131 m) Oct. 23, Dec. 18, 19.  
Period of record: Maximum discharge, 25,400 ft<sup>3</sup>/s (719 m<sup>3</sup>/s) Apr. 13, 1974 (gage height, 18.76 ft or 5.718 m); minimum, 59 ft<sup>3</sup>/s (1.67 m<sup>3</sup>/s) Sept. 12-16, 1972.  
Flood of Mar. 28, 29, 1961, reached a stage of 17.11 ft (5.215 m) from floodmark (discharge, 15,900 ft<sup>3</sup>/s or 450 m<sup>3</sup>/s). Maximum stage known since at least 1879, 20½ ft (6¼ m) in April 1900, and flood in January 1925 reached a stage of 17.3 ft or 5.27 m (from information by local residents).

REMARKS.--Records good.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT   | NOV   | DEC   | JAN    | FEB   | MAR   | APR    | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|-------|
| 1     | 113   | 119   | 147   | 745    | 273   | 167   | 177    | 154   | 307   | 120   | 96    | 251   |
| 2     | 117   | 116   | 139   | 634    | 302   | 167   | 370    | 151   | 294   | 120   | 96    | 156   |
| 3     | 110   | 114   | 137   | 385    | 320   | 167   | 522    | 151   | 174   | 117   | 96    | 503   |
| 4     | 109   | 114   | 173   | 598    | 259   | 165   | 283    | 157   | 157   | 129   | 92    | 415   |
| 5     | 105   | 211   | 199   | 478    | 227   | 163   | 203    | 311   | 307   | 138   | 87    | 156   |
| 6     | 101   | 228   | 161   | 460    | 239   | 161   | 175    | 311   | 423   | 187   | 87    | 133   |
| 7     | 100   | 136   | 141   | 310    | 514   | 159   | 165    | 169   | 249   | 159   | 124   | 131   |
| 8     | 99    | 118   | 133   | 410    | 397   | 157   | 151    | 154   | 179   | 113   | 117   | 251   |
| 9     | 99    | 112   | 129   | 290    | 271   | 155   | 155    | 149   | 159   | 104   | 100   | 538   |
| 10    | 105   | 109   | 127   | 225    | 232   | 155   | 149    | 147   | 353   | 106   | 94    | 311   |
| 11    | 116   | 111   | 127   | 346    | 218   | 159   | 147    | 211   | 399   | 98    | 89    | 181   |
| 12    | 106   | 108   | 127   | 578    | 206   | 385   | 1,300  | 351   | 205   | 94    | 85    | 147   |
| 13    | 102   | 106   | 129   | 415    | 201   | 412   | 16,400 | 234   | 175   | 92    | 85    | 133   |
| 14    | 100   | 106   | 127   | 261    | 197   | 235   | 8,340  | 156   | 159   | 94    | 85    | 126   |
| 15    | 100   | 106   | 127   | 230    | 227   | 186   | 2,070  | 152   | 149   | 94    | 85    | 122   |
| 16    | 102   | 106   | 125   | 211    | 436   | 171   | 1,030  | 142   | 142   | 96    | 83    | 120   |
| 17    | 116   | 106   | 123   | 197    | 346   | 163   | 495    | 140   | 135   | 98    | 87    | 115   |
| 18    | 112   | 104   | 123   | 186    | 244   | 159   | 355    | 138   | 133   | 94    | 94    | 111   |
| 19    | 105   | 106   | 153   | 312    | 235   | 157   | 311    | 133   | 131   | 92    | 157   | 106   |
| 20    | 101   | 108   | 370   | 1,420  | 242   | 157   | 271    | 133   | 131   | 94    | 147   | 104   |
| 21    | 100   | 162   | 304   | 1,800  | 211   | 177   | 243    | 133   | 129   | 96    | 96    | 102   |
| 22    | 98    | 196   | 183   | 691    | 220   | 183   | 228    | 277   | 125   | 96    | 85    | 100   |
| 23    | 103   | 144   | 151   | 358    | 218   | 167   | 252    | 346   | 133   | 92    | 83    | 98    |
| 24    | 111   | 121   | 145   | 965    | 194   | 171   | 246    | 211   | 140   | 96    | 81    | 96    |
| 25    | 111   | 114   | 1,100 | 2,100  | 181   | 167   | 211    | 159   | 135   | 100   | 81    | 100   |
| 26    | 111   | 112   | 1,870 | 1,270  | 173   | 188   | 197    | 159   | 126   | 100   | 83    | 133   |
| 27    | 111   | 142   | 1,040 | 713    | 171   | 558   | 187    | 176   | 122   | 159   | 89    | 145   |
| 28    | 110   | 309   | 391   | 622    | 169   | 510   | 181    | 154   | 120   | 346   | 96    | 125   |
| 29    | 110   | 256   | 237   | 755    | ----- | 315   | 174    | 140   | 120   | 145   | 92    | 156   |
| 30    | 109   | 171   | 201   | 546    | ----- | 227   | 169    | 136   | 120   | 111   | 89    | 151   |
| 31    | 114   | ----- | 530   | 322    | ----- | 190   | -----  | 133   | ----- | 96    | 335   | ----- |
| TOTAL | 3,306 | 4,171 | 9,169 | 18,833 | 7,123 | 6,753 | 35,177 | 5,718 | 5,535 | 3,686 | 3,196 | 5,377 |
| MEAN  | 107   | 139   | 296   | 608    | 254   | 218   | 1,173  | 184   | 188   | 119   | 103   | 179   |
| MAX   | 117   | 309   | 1,870 | 2,100  | 514   | 510   | 16,400 | 351   | 423   | 346   | 335   | 538   |
| MIN   | 98    | 104   | 123   | 186    | 169   | 155   | 147    | 133   | 120   | 92    | 81    | 96    |
| CFSM  | .82   | 1.06  | 2.26  | 4.64   | 1.94  | 1.66  | 8.95   | 1.40  | 1.44  | .91   | .79   | 1.37  |
| IN.   | .94   | 1.18  | 2.60  | 5.35   | 2.02  | 1.92  | 9.99   | 1.62  | 1.60  | 1.05  | .91   | 1.53  |

CAL YR 1973 TOTAL 99,344 MEAN 272 MAX 8,390 MIN 97 CFSM 2.08 IN 28.21  
WTR YR 1974 TOTAL 108,144 MEAN 296 MAX 16,400 MIN 81 CFSM 2.25 IN 30.71

## PEAK DISCHARGE (BASE, 2,500 CFS)

| DATE  | TIME | G. H. | DISCHARGE | DATE | TIME | G. H. | DISCHARGE |
|-------|------|-------|-----------|------|------|-------|-----------|
| 04-13 | 0715 | 18.76 | 25,400    |      |      |       |           |



LOCATION.--Lat 30°47'35", long 89°49'15", on line between secs. 17 and 18, T.3 S., R.14 E., Washington Parish, near right bank on downstream side of bridge on State Highway 10, 2.0 miles (3.2 km) east of Bogalusa, and 2.0 miles (3.2 km) upstream from Bogue Lusa Creek.

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

AVERAGE DISCHARGE.--36 years, 9,067 ft<sup>3</sup>/s (256.8 m<sup>3</sup>/s), 18.57 in/yr (471.7 mm/yr).

EXTREMES.--Current year: Maximum discharge, 99,000 ft<sup>3</sup>/s (2,804 m<sup>3</sup>/s) Apr. 17, gage height, 22.13 ft (6.745 m); minimum, 2,130 ft<sup>3</sup>/s (60.3 m<sup>3</sup>/s) Oct. 31, gage height, 7.08 ft (2.158 m).  
Period of record: Maximum discharge, 99,000 ft<sup>3</sup>/s (2,804 m<sup>3</sup>/s) Apr. 17, 1974 (gage height, 22.13 ft or 6.745 m); minimum, 1,020 ft<sup>3</sup>/s (28.9 m<sup>3</sup>/s) Oct. 29 to Nov. 1, 1963; minimum gage height, 4.84 ft (1.475 m) Oct. 30, 31, 1963.  
Flood of Apr. 11, 1938, reached a stage of 21.0 ft (6.40 m).

REMARKS. -- Records good.

| DAY | OCT   | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL   | AUG   | SEP    |
|-----|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|
| 1   | 3,220 | 2,250  | 16,100 | 43,300 | 58,000 | 42,100 | 17,500 | 40,800 | 5,570  | 4,640 | 3,510 | 3,190  |
| 2   | 3,420 | 2,300  | 16,900 | 42,700 | 60,500 | 41,900 | 16,800 | 37,300 | 8,070  | 4,450 | 3,780 | 3,800  |
| 3   | 3,520 | 2,260  | 16,400 | 43,100 | 62,300 | 41,200 | 17,600 | 29,000 | 9,230  | 4,190 | 3,710 | 6,000  |
| 4   | 3,640 | 2,250  | 15,500 | 44,000 | 60,500 | 39,800 | 19,200 | 18,500 | 9,790  | 4,050 | 3,130 | 8,230  |
| 5   | 3,270 | 3,370  | 15,100 | 44,400 | 57,700 | 38,000 | 21,300 | 14,400 | 9,980  | 4,090 | 3,000 | 7,850  |
| 6   | 2,990 | 5,480  | 15,300 | 44,600 | 55,400 | 35,000 | 22,900 | 12,200 | 9,180  | 4,380 | 3,020 | 6,130  |
| 7   | 2,890 | 5,370  | 15,300 | 45,200 | 55,400 | 30,100 | 22,200 | 10,400 | 8,560  | 4,920 | 2,880 | 5,850  |
| 8   | 2,880 | 5,920  | 15,200 | 45,700 | 56,100 | 21,300 | 20,400 | 9,410  | 8,060  | 4,450 | 3,620 | 8,140  |
| 9   | 2,940 | 5,200  | 14,900 | 45,900 | 54,700 | 15,000 | 18,700 | 8,400  | 8,220  | 3,800 | 3,770 | 11,000 |
| 10  | 3,000 | 4,420  | 13,800 | 46,500 | 52,200 | 11,000 | 17,500 | 7,930  | 9,590  | 3,540 | 3,090 | 11,000 |
| 11  | 2,860 | 4,600  | 12,500 | 47,000 | 50,300 | 9,250  | 16,500 | 8,300  | 10,100 | 3,340 | 2,770 | 9,500  |
| 12  | 2,700 | 5,310  | 11,800 | 47,600 | 48,500 | 9,930  | 15,800 | 11,700 | 10,900 | 3,300 | 2,680 | 8,840  |
| 13  | 2,570 | 5,150  | 11,100 | 48,100 | 47,000 | 9,540  | 19,900 | 12,200 | 11,200 | 3,370 | 2,530 | 7,220  |
| 14  | 2,430 | 4,830  | 10,600 | 48,300 | 45,000 | 11,100 | 33,700 | 10,300 | 11,000 | 3,330 | 2,520 | 6,040  |
| 15  | 2,330 | 4,590  | 9,590  | 47,000 | 42,900 | 13,500 | 44,400 | 9,590  | 10,900 | 3,190 | 2,590 | 5,440  |
| 16  | 2,310 | 4,330  | 7,970  | 45,900 | 40,200 | 13,400 | 66,500 | 8,480  | 10,300 | 3,150 | 2,620 | 4,950  |
| 17  | 2,460 | 3,860  | 6,490  | 45,200 | 35,400 | 11,100 | 94,900 | 7,120  | 9,740  | 3,100 | 2,730 | 4,470  |
| 18  | 2,550 | 3,360  | 5,540  | 44,600 | 31,300 | 9,330  | 93,900 | 5,350  | 9,060  | 2,990 | 3,200 | 3,970  |
| 19  | 2,540 | 2,980  | 5,180  | 44,600 | 31,200 | 8,450  | 80,700 | 6,150  | 3,070  | 2,870 | 4,000 | 3,530  |
| 20  | 2,670 | 2,730  | 6,020  | 46,300 | 33,000 | 8,010  | 69,500 | 6,150  | 7,360  | 2,810 | 4,370 | 3,370  |
| 21  | 2,830 | 2,720  | 8,360  | 47,900 | 35,400 | 9,080  | 61,300 | 5,740  | 6,290  | 2,850 | 4,630 | 3,170  |
| 22  | 2,780 | 3,340  | 10,500 | 50,300 | 37,300 | 8,520  | 57,000 | 5,830  | 5,320  | 3,000 | 4,270 | 3,040  |
| 23  | 2,710 | 5,370  | 12,000 | 52,400 | 38,200 | 8,520  | 53,300 | 8,880  | 4,510  | 2,990 | 3,460 | 2,900  |
| 24  | 2,660 | 9,060  | 12,000 | 54,500 | 39,200 | 8,130  | 51,000 | 11,600 | 4,450  | 3,010 | 2,990 | 2,780  |
| 25  | 2,630 | 9,170  | 14,000 | 56,300 | 39,500 | 8,510  | 49,600 | 9,310  | 4,350  | 3,230 | 2,800 | 2,670  |
| 26  | 2,590 | 8,030  | 39,400 | 56,500 | 40,400 | 9,520  | 48,700 | 7,370  | 4,050  | 3,150 | 2,730 | 2,650  |
| 27  | 2,510 | 7,750  | 50,600 | 55,800 | 41,200 | 18,900 | 48,100 | 6,530  | 3,790  | 3,130 | 2,770 | 2,670  |
| 28  | 2,340 | 8,280  | 49,400 | 57,300 | 41,500 | 30,900 | 47,200 | 5,830  | 3,530  | 3,250 | 2,730 | 2,800  |
| 29  | 2,220 | 10,100 | 48,100 | 58,700 | -----  | 29,500 | 45,900 | 5,380  | 3,920  | 3,450 | 2,680 | 3,640  |
| 30  | 2,150 | 13,500 | 45     |        |        |        |        |        |        |       |       |        |

## PEARL RIVER BASIN

02490500 Bogue Chitto near Tylertown, Miss.

LOCATION.--Lat 31°11', long 90°17', in SE¼ sec.34, T.3 N., R.9 E., Washington meridian, Pike County, near right bank on downstream side of bridge on U.S. Highway 98, 0.2 mile (0.3 km) upstream from Fernwood, Columbia and Gulf Railroad bridge, 0.2 mile (0.3 km) upstream from Bars Branch, 2.2 miles (3.5 km) downstream from Topisaw Creek, and 9 miles (14 km) northwest of Tylertown.

DRAINAGE AREA.--502 mi<sup>2</sup> (1,300 km<sup>2</sup>).

PERIOD OF RECORD.--August 1944 to current year.

GAGE.--Water-stage recorder. Datum of gage is 227.40 ft (69.312 m) above mean sea level.

AVERAGE DISCHARGE.--30 years, 784 ft<sup>3</sup>/s (22.20 m<sup>3</sup>/s), 21.21 in/yr (539 mm/yr).

EXTREMES.--Current year: Maximum discharge, 33,600 ft<sup>3</sup>/s (952 m<sup>3</sup>/s) Apr. 14; maximum gage height, 30.85 ft (9.403 m) Apr. 14; minimum discharge, 284 ft<sup>3</sup>/s (8.04 m<sup>3</sup>/s), Aug. 26; minimum gage height, 6.47 ft (1.972 m), Oct. 30.

Period of record: Maximum discharge, 45,700 ft<sup>3</sup>/s (1,290 m<sup>3</sup>/s) Jan. 7, 1950 (gage height, 33.50 ft or 10.211 m); minimum, 175 ft<sup>3</sup>/s (4.96 m<sup>3</sup>/s) Oct. 31, 1963; minimum gage height, 6.08 ft (1.853 m), part of each day Oct. 13-22, 1972.

Flood in February 1936 reached a stage 1.2 ft (0.37 m) higher than the flood of Jan. 7, 1950, at the railroad bridge, 0.2 mile (0.3 km) downstream.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1504: 1945 (P), 1946(M), 1947-51, 1953.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR     | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|
| 1     | 764    | 351    | 2,250  | 2,440  | 1,540  | 616    | 709     | 455    | 385    | 314    | 595    | 550    |
| 2     | 696    | 353    | 854    | 1,250  | 1,720  | 600    | 1,130   | 451    | 495    | 311    | 419    | 657    |
| 3     | 511    | 346    | 645    | 1,170  | 2,430  | 540    | 2,190   | 453    | 715    | 308    | 345    | 602    |
| 4     | 438    | 340    | 625    | 2,250  | 1,550  | 540    | 2,440   | 451    | 710    | 308    | 342    | 537    |
| 5     | 402    | 584    | 745    | 1,800  | 1,110  | 564    | 2,100   | 445    | 472    | 316    | 359    | 407    |
| 6     | 385    | 700    | 757    | 1,300  | 1,040  | 558    | 344     | 439    | 427    | 347    | 347    | 353    |
| 7     | 372    | 711    | 593    | 1,140  | 4,250  | 542    | 672     | 428    | 405    | 347    | 410    | 349    |
| 8     | 364    | 508    | 523    | 1,440  | 3,750  | 532    | 510     | 415    | 389    | 354    | 389    | 453    |
| 9     | 364    | 791    | 487    | 1,320  | 2,440  | 526    | 555     | 408    | 374    | 359    | 345    | 506    |
| 10    | 393    | 1,040  | 466    | 974    | 1,480  | 523    | 534     | 403    | 367    | 350    | 333    | 473    |
| 11    | 402    | 949    | 449    | 1,250  | 1,060  | 545    | 514     | 451    | 395    | 328    | 315    | 399    |
| 12    | 390    | 692    | 441    | 2,850  | 907    | 757    | 770     | 497    | 560    | 315    | 305    | 359    |
| 13    | 366    | 499    | 438    | 2,750  | 926    | 414    | 22,600  | 438    | 429    | 308    | 333    | 339    |
| 14    | 359    | 446    | 430    | 2,840  | 776    | 726    | 31,100  | 411    | 382    | 315    | 355    | 915    |
| 15    | 356    | 416    | 430    | 1,670  | 952    | 512    | 19,300  | 396    | 365    | 314    | 383    | 892    |
| 16    | 361    | 399    | 416    | 996    | 1,980  | 561    | 7,100   | 390    | 357    | 394    | 331    | 525    |
| 17    | 385    | 388    | 413    | 846    | 1,710  | 529    | 3,700   | 382    | 349    | 373    | 327    | 405    |
| 18    | 356    | 379    | 407    | 758    | 1,340  | 514    | 1,640   | 378    | 353    | 334    | 507    | 352    |
| 19    | 359    | 377    | 424    | 1,680  | 1,080  | 508    | 1,040   | 372    | 432    | 315    | 529    | 337    |
| 20    | 353    | 385    | 450    | 5,630  | 1,030  | 502    | 321     | 357    | 353    | 310    | 362    | 323    |
| 21    | 346    | 700    | 1,260  | 5,650  | 1,040  | 564    | 704     | 382    | 343    | 302    | 318    | 314    |
| 22    | 334    | 911    | 1,070  | 3,270  | 1,170  | 547    | 540     | 1,440  | 334    | 298    | 303    | 306    |
| 23    | 335    | 920    | 678    | 2,610  | 1,520  | 571    | 549     | 1,230  | 361    | 300    | 294    | 298    |
| 24    | 333    | 612    | 587    | 3,270  | 1,110  | 545    | 544     | 514    | 395    | 319    | 289    | 291    |
| 25    | 330    | 542    | 4,080  | 4,710  | 814    | 587    | 602     | 485    | 353    | 373    | 287    | 292    |
| 26    | 333    | 609    | 7,650  | 5,860  | 715    | 726    | 553     | 450    | 337    | 356    | 289    | 318    |
| 27    | 330    | 856    | 3,160  | 5,590  | 560    | 1,440  | 519     | 431    | 327    | 350    | 309    | 353    |
| 28    | 333    | 1,860  | 5,180  | 3,960  | 536    | 2,100  | 495     | 430    | 325    | 321    | 333    | 349    |
| 29    | 328    | 2,330  | 3,410  | 5,030  | -----  | 1,950  | 479     | 417    | 321    | 307    | 409    | 325    |
| 30    | 325    | 3,090  | 1,480  | 3,860  | -----  | 1,270  | 457     | 400    | 319    | 306    | 459    | 312    |
| 31    | 340    | -----  | 2,020  | 3,370  | -----  | 857    | -----   | 389    | -----  | 918    | 571    | -----  |
| TOTAL | 12,047 | 23,134 | 49,219 | 54,594 | 40,946 | 22,910 | 105,731 | 15,099 | 12,128 | 10,800 | 11,491 | 12,921 |
| MEAN  | 389    | 771    | 1,588  | 2,729  | 1,459  | 739    | 3,558   | 487    | 404    | 348    | 371    | 431    |
| MAX   | 764    | 3,090  | 8,160  | 6,630  | 4,250  | 2,100  | 31,100  | 1,440  | 715    | 918    | 595    | 915    |
| MIN   | 325    | 340    | 407    | 768    | 536    | 502    | 457     | 357    | 318    | 298    | 287    | 291    |
| CFSM  | .77    | 1.54   | 3.16   | 5.44   | 2.91   | 1.47   | 7.09    | .97    | .80    | .59    | .74    | .86    |
| IN.   | .89    | 1.71   | 3.55   | 5.27   | 3.03   | 1.70   | 7.91    | 1.12   | .90    | .80    | .85    | .96    |

CAL YR 1973 TOTAL 459,918 MEAN 1,260 MAX 24,100 MIN 314 CFSM 2.51 IN 34.08  
WTR YR 1974 TOTAL 401,920 MEAN 1,101 MAX 31,100 MIN 287 CFSM 2.19 IN 29.78

LOCATION.--Lat 34°47'13", long 87°40'12", in SW¼ sec.14, T.3 S., R.11 W., Lauderdale County, on right bank at lower end of Patton Island, 137 ft (41.8 m) upstream from Southern Railway bridge, 700 ft (213 m) upstream from O'Neal Bridge on U.S. Highway 72, 1 mile (1.6 km) south of Florence, 1.7 miles (2.7 km) upstream from Cypress Creek, 2.7 miles (4.3 km) downstream from Wilson Dam, and at mile 256.7 (413.0 km).

GAGE.--Water-stage recorder. Datum of gage is 401.12 ft (122.261 m) above mean sea level. Prior to Apr. 1, 1926, several National Weather Service staff gages at or near Southern Railway bridge 137 ft (41.8 m) 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 (427 m) upstream at same datum. Since Oct. 1, 1938, auxiliary water-stage recorder 15.2 miles (24.5 km) downstream.

EXTREMES.--Current year: Maximum discharge, 327,000 ft<sup>3</sup>/s (9.260 m<sup>3</sup>/s) Jan. 11 (gage height, 25.03 ft or 7.629 m); minimum daily, 16,900 ft<sup>3</sup>/s (479 m<sup>3</sup>/s) Sept. 22.  
Period of record: Maximum discharge 530,000 ft<sup>3</sup>/s (15,000 m<sup>3</sup>/s) Mar. 17, 1973 (gage height, 30.03 ft or 9.153 m); minimum daily, 105 ft<sup>3</sup>/s (2.97 m<sup>3</sup>/s) Sept. 7, 1969 (computed on basis of Wilson Dam records); minimum gage height, -1.30 ft (-0.914 m) Oct. 8, 1925, caused by filling of Wilson Lake.  
Flood in 1867 reached a stage of 31.1 ft (9.48 m), from National Weather Service records (discharge, 421,000 ft<sup>3</sup>/s or 11,900 m<sup>3</sup>/s). Observed discharge of Mar. 19, 1897, 444,000 ft<sup>3</sup>/s (12,600 m<sup>3</sup>/s), gage height 32.50 ft (9.91 m).

REVISIONS (WATER YEARS).--WSP 473: 1897(M). WSP 1306: 1914(M), 1936 (monthly runoff). WSP 1436: 1897, 1899, 1916.

| DAY | OCT    | NOV     | DEC     | JAN     | FEB     | MAR     | APR     | MAY    | JUN    | JUL    | AUG    | SEP     |
|-----|--------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|---------|
| 1   | 33,600 | 39,700  | 152,000 | 171,000 | 170,000 | 96,900  | 67,700  | 39,000 | 79,300 | 37,000 | 42,000 | 23,200  |
| 2   | 40,700 | 34,500  | 146,000 | 165,000 | 169,000 | 75,200  | 70,500  | 37,800 | 89,100 | 36,200 | 35,600 | 30,700  |
| 3   | 36,300 | 33,400  | 130,000 | 175,000 | 173,000 | 74,100  | 88,800  | 32,000 | 71,800 | 40,800 | 41,800 | 38,100  |
| 4   | 42,200 | 25,100  | 123,000 | 186,000 | 167,000 | 76,300  | 106,000 | 36,600 | 50,500 | 23,900 | 31,500 | 44,900  |
| 5   | 42,800 | 33,600  | 106,000 | 184,000 | 160,000 | 76,200  | 111,000 | 29,300 | 48,600 | 41,900 | 44,000 | 81,500  |
| 6   | 39,100 | 37,500  | 104,000 | 181,000 | 168,000 | 60,700  | 119,000 | 42,500 | 61,800 | 34,700 | 39,400 | 102,000 |
| 7   | 25,400 | 34,300  | 95,700  | 182,000 | 166,000 | 65,800  | 118,000 | 43,300 | 55,800 | 29,200 | 35,500 | 82,300  |
| 8   | 28,500 | 31,400  | 73,600  | 181,000 | 165,000 | 57,700  | 115,000 | 38,900 | 58,900 | 47,000 | 40,900 | 56,400  |
| 9   | 30,600 | 32,600  | 76,100  | 194,000 | 158,000 | 52,900  | 93,300  | 39,000 | 48,600 | 43,300 | 41,000 | 62,100  |
| 10  | 30,500 | 26,500  | 78,600  | 228,000 | 157,000 | 59,600  | 95,900  | 48,100 | 51,500 | 43,900 | 47,300 | 34,900  |
| 11  | 35,100 | 31,200  | 58,800  | 308,000 | 159,000 | 67,600  | 95,200  | 54,800 | 46,500 | 51,000 | 31,900 | 30,400  |
| 12  | 33,900 | 36,300  | 69,300  | 292,000 | 139,000 | 58,100  | 102,000 | 56,200 | 40,500 | 43,400 | 44,200 | 32,900  |
| 13  | 27,500 | 28,900  | 69,300  | 283,000 | 137,000 | 50,300  | 101,000 | 58,600 | 42,000 | 37,200 | 48,400 | 33,400  |
| 14  | 21,000 | 30,200  | 59,700  | 277,000 | 134,000 | 39,300  | 104,000 | 46,900 | 41,700 | 43,600 | 45,200 | 41,500  |
| 15  | 29,400 | 31,100  | 70,300  | 263,000 | 149,000 | 39,900  | 73,900  | 59,700 | 39,100 | 41,800 | 44,000 | 27,700  |
| 16  | 30,400 | 31,200  | 66,300  | 256,000 | 158,000 | 54,800  | 53,600  | 72,000 | 40,300 | 47,300 | 56,000 | 36,900  |
| 17  | 28,300 | 32,300  | 58,900  | 236,000 | 178,000 | 48,800  | 47,900  | 57,000 | 50,900 | 49,700 | 46,700 | 36,100  |
| 18  | 30,200 | 29,300  | 69,600  | 205,000 | 182,000 | 50,900  | 41,700  | 58,800 | 47,300 | 47,300 | 33,100 | 35,700  |
| 19  | 28,000 | 31,100  | 66,900  | 199,000 | 181,000 | 56,200  | 46,500  | 46,300 | 48,800 | 47,300 | 48,300 | 33,700  |
| 20  | 23,700 | 30,100  | 64,700  | 173,000 | 182,000 | 74,600  | 40,500  | 62,300 | 49,300 | 21,500 | 50,500 | 32,100  |
| 21  | 22,700 | 41,100  | 72,200  | 151,000 | 171,000 | 103,000 | 35,900  | 49,500 | 40,400 | 20,900 | 45,400 | 28,500  |
| 22  | 24,200 | 41,600  | 71,600  | 154,000 | 154,000 | 129,000 | 56,700  | 51,300 | 39,700 | 42,300 | 41,800 | 16,900  |
| 23  | 26,700 | 36,900  | 70,000  | 153,000 | 148,000 | 135,000 | 46,400  | 60,400 | 23,100 | 49,600 | 42,000 | 29,700  |
| 24  | 25,500 | 57,700  | 65,300  | 156,000 | 146,000 | 133,000 | 42,800  | 64,600 | 39,400 | 42,100 | 51,700 | 35,100  |
| 25  | 29,500 | 50,400  | 67,100  | 171,000 | 143,000 | 125,000 | 36,900  | 74,600 | 47,600 | 41,300 | 37,100 | 41,500  |
| 26  | 31,800 | 50,200  | 137,000 | 182,000 | 142,000 | 111,000 | 34,500  | 73,900 | 42,900 | 51,200 | 49,600 | 39,200  |
| 27  | 23,800 | 65,700  | 207,000 | 183,000 | 132,000 | 107,000 | 34,600  | 76,500 | 42,400 | 41,000 | 39,400 | 39,000  |
| 28  | 19,200 | 133,000 | 227,000 | 178,000 | 115,000 | 78,700  |         |        |        |        |        |         |

## TENNESSEE RIVER BASIN

03592500 Bear Creek at Bishop, Ala.

LOCATION.--Lat 34°39'21", long 88°07'21", in SE¼ sec.5, T.5 S., R.15 W., Colbert County, on left bank 250 ft (76 m) upstream from highway bridge, 0.5 mile (0.8 km) downstream from Cedar Creek, 0.8 mile (1.3 km) south-west of Bishop, and at mile 27.3 (43.9 km).

DRAINAGE AREA.--667 mi<sup>2</sup> (1,728 km<sup>2</sup>).

PERIOD OF RECORD.--August 1926 to June 1928, February 1929 to March 1932, June 1933 to current year.

GAGE.--Water-stage recorder. Datum of gage is 419.91 ft (127.989 m) above mean sea level. Nonrecording gage prior to June 23, 1928, and Feb. 10, 1929, to Mar. 31, 1932, at site 35 ft (11 m) downstream, and June 7, 1933, to May 28, 1934, at bridge 20 ft (6 m) downstream at datum 5.00 ft (1.524 m) lower.

AVERAGE DISCHARGE.--44 years (1926-27, 1929-31, 1933-74), 1,111 ft<sup>3</sup>/s (31.46 m<sup>3</sup>/s) 22.62 in/yr (575 mm/yr).

EXTREMES.--Current year: Maximum discharge, 18,100 ft<sup>3</sup>/s (513 m<sup>3</sup>/s) Jan. 11 (gage height, 17.95 ft or 5.471 m); minimum daily, 96 ft<sup>3</sup>/s (2.72 m<sup>3</sup>/s) Oct. 11, 12.

Period of record: Maximum discharge, 60,800 ft<sup>3</sup>/s (1,720 m<sup>3</sup>/s) Mar. 17, 1973, gage height, 24.12 ft (7.352 m) in gage well, 25.2 ft (7.68 m) from floodmarks 20 ft (6 m) upstream from gage; minimum discharge, 9.5 ft<sup>3</sup>/s (0.26 m<sup>3</sup>/s) Sept. 15-17, 1954; minimum gage height, -0.15 ft (-0.046 m) Sept. 1, 1943.

REMARKS.--Records good. Flow partially regulated by Bear Creek Reservoir 47.3 miles (76.1 km) upstream beginning Mar. 14, 1969.

REVISIONS (WATER YEARS).--WSP 698: 1929, WSP 823: Drainage area. WSP 853: 1927, 1928 (M), 1929, 1930 (M), 1932 (M).

## DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT   | NOV    | DEC    | JAN     | FEB     | MAR    | APR    | MAY    | JUN    | JUL    | AUG   | SEP    |
|-------|-------|--------|--------|---------|---------|--------|--------|--------|--------|--------|-------|--------|
| 1     | 255   | 175    | 2,590  | 3,260   | 3,320   | 2,350  | 1,680  | 750    | 1,820  | 327    | 275   | 273    |
| 2     | 252   | 268    | 2,400  | 2,780   | 4,930   | 2,240  | 5,000  | 923    | 3,570  | 314    | 250   | 239    |
| 3     | 213   | 357    | 2,230  | 3,490   | 8,390   | 2,140  | 4,030  | 1,000  | 2,500  | 302    | 246   | 404    |
| 4     | 155   | 365    | 2,350  | 4,900   | 4,830   | 2,010  | 4,960  | 3,050  | 2,050  | 298    | 252   | 345    |
| 5     | 150   | 362    | 2,100  | 3,620   | 3,840   | 1,630  | 5,980  | 1,950  | 1,540  | 1,090  | 201   | 434    |
| 6     | 141   | 264    | 2,050  | 3,100   | 3,550   | 1,250  | 3,310  | 1,320  | 1,400  | 592    | 171   | 753    |
| 7     | 126   | 239    | 1,770  | 3,460   | 3,530   | 1,130  | 2,860  | 1,270  | 1,720  | 424    | 160   | 571    |
| 8     | 131   | 244    | 1,550  | 2,960   | 3,290   | 1,080  | 2,760  | 1,080  | 10,900 | 462    | 160   | 511    |
| 9     | 130   | 298    | 1,440  | 4,930   | 3,010   | 973    | 2,620  | 1,140  | 4,600  | 527    | 173   | 1,630  |
| 10    | 116   | 300    | 1,220  | 8,470   | 2,830   | 901    | 2,360  | 1,290  | 2,270  | 499    | 176   | 1,530  |
| 11    | 96    | 291    | 828    | 15,800  | 2,690   | 887    | 2,200  | 1,170  | 2,430  | 554    | 201   | 1,110  |
| 12    | 96    | 286    | 616    | 14,000  | 2,560   | 945    | 2,490  | 3,570  | 2,280  | 996    | 273   | 792    |
| 13    | 112   | 291    | 627    | 5,520   | 2,460   | 938    | 5,780  | 2,220  | 1,460  | 484    | 307   | 685    |
| 14    | 167   | 320    | 602    | 4,470   | 3,180   | 841    | 3,980  | 1,710  | 1,200  | 425    | 261   | 612    |
| 15    | 171   | 284    | 557    | 5,910   | 5,190   | 835    | 3,110  | 2,710  | 1,060  | 388    | 211   | 719    |
| 16    | 198   | 289    | 547    | 4,620   | 5,230   | 852    | 2,710  | 6,270  | 952    | 365    | 275   | 844    |
| 17    | 166   | 237    | 496    | 3,800   | 4,950   | 852    | 2,460  | 3,630  | 872    | 345    | 357   | 1,420  |
| 18    | 148   | 218    | 481    | 3,390   | 3,660   | 818    | 2,260  | 2,770  | 790    | 277    | 340   | 769    |
| 19    | 140   | 211    | 460    | 3,120   | 3,540   | 824    | 1,670  | 2,060  | 705    | 252    | 203   | 481    |
| 20    | 136   | 218    | 612    | 3,400   | 3,240   | 1,320  | 1,400  | 1,580  | 650    | 244    | 176   | 422    |
| 21    | 133   | 996    | 844    | 4,360   | 3,060   | 6,700  | 1,300  | 1,200  | 601    | 261    | 291   | 333    |
| 22    | 130   | 1,160  | 824    | 3,200   | 6,010   | 6,420  | 1,310  | 1,040  | 561    | 259    | 368   | 305    |
| 23    | 125   | 857    | 765    | 5,870   | 4,270   | 3,350  | 1,670  | 1,440  | 538    | 307    | 252   | 230    |
| 24    | 113   | 869    | 745    | 8,650   | 3,340   | 2,750  | 1,480  | 1,400  | 525    | 478    | 184   | 203    |
| 25    | 112   | 865    | 938    | 11,100  | 2,950   | 2,440  | 1,420  | 1,120  | 502    | 411    | 180   | 211    |
| 26    | 162   | 861    | 6,100  | 6,120   | 2,700   | 2,230  | 1,110  | 1,160  | 476    | 571    | 176   | 244    |
| 27    | 173   | 3,420  | 7,430  | 6,340   | 2,550   | 1,590  | 967    | 1,660  | 396    | 947    | 186   | 252    |
| 28    | 248   | 7,970  | 3,920  | 6,370   | 2,420   | 1,420  | 917    | 2,000  | 350    | 609    | 220   | 300    |
| 29    | 266   | 5,030  | 3,180  | 6,560   | -----   | 2,090  | 871    | 1,530  | 332    | 588    | 184   | 289    |
| 30    | 237   | 2,920  | 2,900  | 4,500   | -----   | 2,000  | 809    | 1,330  | 331    | 499    | 207   | 268    |
| 31    | 186   | -----  | 3,020  | 3,750   | -----   | 1,840  | -----  | 1,100  | -----  | 357    | 248   | -----  |
| TOTAL | 4,984 | 30,465 | 56,192 | 171,820 | 105,520 | 57,646 | 75,474 | 56,443 | 49,381 | 14,452 | 7,164 | 17,179 |
| MEAN  | 161   | 1,016  | 1,813  | 5,543   | 3,769   | 1,860  | 2,516  | 1,821  | 1,646  | 466    | 231   | 573    |
| MAX   | 266   | 7,970  | 7,430  | 15,800  | 8,390   | 6,700  | 5,980  | 6,270  | 10,900 | 1,090  | 368   | 1,630  |
| MIN   | 96    | 175    | 460    | 2,780   | 2,420   | 818    | 809    | 750    | 331    | 244    | 160   | 203    |
| CFSM  | .24   | 1.52   | 2.72   | 8.31    | 5.65    | 2.79   | 3.77   | 2.73   | 2.47   | .70    | .35   | .86    |
| IN.   | .28   | 1.70   | 3.13   | 9.58    | 5.89    | 3.22   | 4.21   | 3.15   | 2.75   | .81    | .40   | .96    |

CAL YR 1973 TOTAL 678,134 MEAN 1.858 MAX 50,700 MIN 46 CFSM 2.79 IN 37.82  
WTR YR 1974 TOTAL 646,720 MEAN 1.772 MAX 15,800 MIN 96 CFSM 2.66 IN 36.07

## PEAK DISCHARGE (BASE, 7,500 CFS)

| DATE  | TIME | G. H. | DISCHARGE | DATE | TIME | G. H. | DISCHARGE |
|-------|------|-------|-----------|------|------|-------|-----------|
| 11-28 | 1900 | 14.57 | 8,550     | 2-03 | 0630 | 15.07 | 9,440     |
| 12-27 | 0045 | 14.62 | 8,630     | 3-21 | 2015 | 14.85 | 9,030     |
| 1-11  | 2215 | 17.95 | 18,100    | 6-08 | 1400 | 16.75 | 13,800    |
| 1-25  | 0615 | 16.45 | 12,900    |      |      |       |           |

03592718 Little Yellow Creek east near Burnsville, Miss.

LOCATION.--Lat 34°50'01", long 88°17'08", in SE¼ sec.7, T.3 S., R.10 E., Chickasaw meridian, Tishomingo County, at bridge 0.2 mile (0.3 km) northeast of Walkers Siding and 2.0 miles (3.2 km) east of Burnsville, Miss.

DRAINAGE AREA.--24.7 mi<sup>2</sup> (64.0 km<sup>2</sup>), Tennessee Valley Authority.

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

GAGE.--Water-stage recorder. Altitude of gage is 440 ft or 134.1 m (from topographic map).

EXTREMES.--May to September 1973: Maximum discharge during period, 389 ft<sup>3</sup>/s (11.0 m<sup>3</sup>/s) May 27 (gage height, 15.15 ft or 4.618 m); minimum, 5.9 ft<sup>3</sup>/s (0.17 m<sup>3</sup>/s) Aug. 26 (gage height, 6.14 ft or 1.871 m).  
 Water year 1974: Maximum discharge, 3,030 ft<sup>3</sup>/s (85.8 m<sup>3</sup>/s) Jan. 10, 11 (gage height, 19.06 ft or 5.809 m); minimum, 5.6 ft<sup>3</sup>/s (0.16 m<sup>3</sup>/s) Aug. 25, 26 (gage height, 6.20 ft or 1.890 m).

REMARKS.--Records fair.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

| DAY   | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN   | JUL   | AUG   | SEP   |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| 1     |     |     |     |     |     |     |     |     | 25    | 50    | 10    | 8.0   |
| 2     |     |     |     |     |     |     |     |     | 23    | 40    | 9.5   | 7.0   |
| 3     |     |     |     |     |     |     |     |     | 20    | 18    | 9.0   | 7.0   |
| 4     |     |     |     |     |     |     |     |     | 16    | 12    | 9.0   | 6.5   |
| 5     |     |     |     |     |     |     |     |     | 35    | 10    | 9.0   | 6.5   |
| 6     |     |     |     |     |     |     |     |     | 56    | 8.0   | 9.0   | 6.5   |
| 7     |     |     |     |     |     |     |     |     | 19    | 8.0   | 8.4   | 7.0   |
| 8     |     |     |     |     |     |     |     |     | 18    | 8.0   | 8.0   | 7.0   |
| 9     |     |     |     |     |     |     |     |     | 16    | 8.0   | 8.1   | 6.5   |
| 10    |     |     |     |     |     |     |     |     | 15    | 9.0   | 8.0   | 6.0   |
| 11    |     |     |     |     |     |     |     |     | 15    | 10    | 7.7   | 6.0   |
| 12    |     |     |     |     |     |     |     |     | 15    | 8.0   | 7.9   | 6.0   |
| 13    |     |     |     |     |     |     |     |     | 14    | 7.0   | 13    | 8.0   |
| 14    |     |     |     |     |     |     |     |     | 15    | 8.0   | 14    | 11    |
| 15    |     |     |     |     |     |     |     |     | 18    | 10    | 9.6   | 8.5   |
| 16    |     |     |     |     |     |     |     |     | 18    | 80    | 8.4   | 7.8   |
| 17    |     |     |     |     |     |     |     |     | 22    | 14    | 8.0   | 7.0   |
| 18    |     |     |     |     |     |     |     |     | 21    | 12    | 8.1   | 7.0   |
| 19    |     |     |     |     |     |     |     |     | 31    | 19    | 7.7   | 7.0   |
| 20    |     |     |     |     |     |     |     |     | 91    | 138   | 20    | 7.4   |
| 21    |     |     |     |     |     |     |     |     | 33    | 50    | 10    | 6.9   |
| 22    |     |     |     |     |     |     |     |     | 26    | 24    | 9.0   | 6.4   |
| 23    |     |     |     |     |     |     |     |     | 39    | 15    | 9.0   | 6.5   |
| 24    |     |     |     |     |     |     |     |     | 42    | 9.0   | 9.0   | 6.5   |
| 25    |     |     |     |     |     |     |     |     | 27    | 8.0   | 9.0   | 6.4   |
| 26    |     |     |     |     |     |     |     |     | 24    | 8.0   | 10    | 6.3   |
| 27    |     |     |     |     |     |     |     |     | 200   | 8.0   | 60    | 8.0   |
| 28    |     |     |     |     |     |     |     |     | 117   | 25    | 15    | 7.0   |
| 29    |     |     |     |     |     |     |     |     | 51    | 10    | 10    | 7.0   |
| 30    |     |     |     |     |     |     |     |     | 37    | 9.0   | 10    | 17    |
| 31    |     |     |     |     |     |     |     |     | 29    | ----- | 10    | 15    |
| TOTAL |     |     |     |     |     |     |     |     | 687.0 | 577.0 | 272.8 | 246.3 |
| MEAN  |     |     |     |     |     |     |     |     | 22.9  | 18.6  | 8.80  | 8.21  |
| MAX   |     |     |     |     |     |     |     |     | 138   | 80    | 17    | 25    |
| MIN   |     |     |     |     |     |     |     |     | 8.0   | 7.0   | 6.3   | 6.0   |

PEAK DISCHARGE (BASE, 700 CFS).--No peak above base.



## TENNESSEE RIVER BASIN

03592718 Little Yellow Creek east near Burnsville, Miss.--Continued

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN     | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|------|---------|-------|-------|-------|
| 1     | 9.0   | 21    | 38    | 74    | 58    | 44    | 32    | 13   | 857     | 8.9   | 7.6   | 9.5   |
| 2     | 13    | 13    | 32    | 56    | 119   | 42    | 43    | 21   | 248     | 8.7   | 7.7   | 9.3   |
| 3     | 9.0   | 12    | 29    | 552   | 91    | 41    | 35    | 20   | 55      | 8.7   | 9.9   | 30    |
| 4     | 8.5   | 16    | 60    | 297   | 64    | 39    | 36    | 40   | 36      | 8.6   | 37    | 12    |
| 5     | 9.0   | 24    | 39    | 56    | 56    | 40    | 29    | 36   | 36      | 34    | 10    | 9.5   |
| 6     | 8.5   | 16    | 29    | 85    | 71    | 39    | 26    | 23   | 30      | 18    | 9.9   | 10    |
| 7     | 10    | 14    | 25    | 85    | 61    | 36    | 26    | 17   | 60      | 15    | 13    | 9.0   |
| 8     | 70    | 23    | 23    | 65    | 51    | 34    | 41    | 16   | 242     | 13    | 13    | 21    |
| 9     | 25    | 20    | 23    | 390   | 46    | 32    | 30    | 17   | 60      | 13    | 10    | 21    |
| 10    | 15    | 15    | 22    | 1,190 | 44    | 32    | 26    | 16   | 59      | 13    | 9.8   | 14    |
| 11    | 10    | 14    | 20    | 1,970 | 41    | 33    | 24    | 17   | 34      | 13    | 8.6   | 10    |
| 12    | 9.0   | 14    | 21    | 265   | 39    | 33    | 91    | 34   | 28      | 12    | 12    | 13    |
| 13    | 9.0   | 14    | 72    | 53    | 39    | 28    | 119   | 16   | 24      | 9.8   | 23    | 37    |
| 14    | 22    | 14    | 38    | 135   | 206   | 27    | 54    | 13   | 21      | 8.7   | 13    | 28    |
| 15    | 15    | 15    | 31    | 118   | 237   | 27    | 39    | 106  | 27      | 8.3   | 9.8   | 18    |
| 16    | 11    | 16    | 26    | 85    | 226   | 34    | 33    | 64   | 36      | 8.2   | 8.7   | 12    |
| 17    | 10    | 14    | 23    | 71    | 106   | 29    | 29    | 30   | 21      | 7.9   | 8.7   | 10    |
| 18    | 9.0   | 14    | 23    | 65    | 77    | 29    | 26    | 21   | 20      | 7.5   | 8.0   | 9.3   |
| 19    | 9.0   | 15    | 23    | 57    | 86    | 34    | 25    | 17   | 19      | 7.2   | 7.6   | 8.6   |
| 20    | 9.0   | 15    | 104   | 156   | 60    | 81    | 22    | 14   | 16      | 14    | 7.0   | 8.3   |
| 21    | 8.5   | 118   | 48    | 119   | 90    | 341   | 21    | 13   | 15      | 14    | 6.6   | 9.8   |
| 22    | 8.5   | 34    | 36    | 71    | 142   | 93    | 32    | 92   | 13      | 8.7   | 8.6   | 10    |
| 23    | 8.5   | 38    | 36    | 81    | 73    | 62    | 27    | 110  | 13      | 16    | 6.9   | 8.2   |
| 24    | 8.5   | 41    | 37    | 380   | 60    | 49    | 21    | 37   | 13      | 14    | 6.3   | 7.7   |
| 25    | 9.4   | 42    | 128   | 288   | 51    | 45    | 19    | 24   | 12      | 10    | 6.2   | 15    |
| 26    | 9.4   | 77    | 253   | 141   | 48    | 41    | 18    | 26   | 12      | 13    | 6.6   | 16    |
| 27    | 9.7   | 1,030 | 118   | 104   | 47    | 41    | 16    | 26   | 11      | 12    | 6.6   | 32    |
| 28    | 28    | 891   | 65    | 248   | 45    | 40    | 15    | 19   | 10      | 9.8   | 6.2   | 17    |
| 29    | 16    | 98    | 54    | 131   | ----- | 50    | 14    | 16   | 9.9     | 8.9   | 20    | 12    |
| 30    | 12    | 49    | 48    | 82    | ----- | 38    | 13    | 15   | 9.3     | 8.2   | 16    | 9.8   |
| 31    | 20    | ----- | 152   | 66    | ----- | 32    | ----- | 21   | -----   | 7.6   | 10    | ----- |
| TOTAL | 426.7 | 2,740 | 1,676 | 7,616 | 2,334 | 1,566 | 982   | 950  | 2,047.2 | 359.7 | 334.3 | 437.0 |
| MEAN  | 13.8  | 91.3  | 54.1  | 246   | 83.4  | 50.5  | 32.7  | 30.6 | 68.2    | 11.6  | 10.8  | 14.6  |
| MAX   | 70    | 1,030 | 253   | 1,970 | 237   | 341   | 119   | 110  | 857     | 34    | 37    | 37    |
| MIN   | 9.4   | 12    | 20    | 56    | 39    | 27    | 13    | 13   | 9.3     | 7.2   | 6.2   | 7.7   |
| CFSM  | .56   | 2.70  | 2.19  | 9.96  | 3.38  | 2.04  | 1.32  | 1.24 | 2.76    | .47   | .44   | .59   |
| IN.   | .64   | 4.13  | 2.52  | 11.47 | 3.52  | 2.36  | 1.48  | 1.43 | 3.08    | .54   | .50   | .66   |

WTR YR 1974 TOTAL 21,468.9 MEAN 58.8 MAX 1,970 MIN 6.2 CFSM 2.38 IN 32.33

## PEAK DISCHARGE (BASE, 700 CFS)

| DATE  | TIME | G. H. | DISCHARGE | DATE  | TIME | G. H. | DISCHARGE |
|-------|------|-------|-----------|-------|------|-------|-----------|
| 11-27 | 2145 | 18.60 | 2,160     | 01-24 | 1845 | 17.03 | 715       |
| 01-03 | 1745 | 17.57 | 992       | 06-01 | 1315 | 18.23 | 1,620     |
| 01-10 | 2400 | 19.06 | 3,030     |       |      |       |           |

03592800 Yellow Creek near Doskie, Miss.

LOCATION.--Lat 34°54'02", long 88°17'35", in SW¼ sec.18, T.2 S., R.10 E., Chickasaw meridian, Tishomingo County, near right bank on downstream side of Moser Bridge on county road, 0.4 mile (0.6 km) south of Doskie, and 5.8 miles (9.3 km) northeast of Burnsville.

DRAINAGE AREA.--143 mi<sup>2</sup> (370 km<sup>2</sup>) authority TVA.

PERIOD OF RECORD.--May 1973 to current year. Nov. 13, 1937 through 1958, daily discharge by Tennessee Valley Authority.

GAGE.--Water-stage recorder. Datum of gage is 421.12 ft (128.357 m) above mean sea level.

EXTREMES.--May to September 1973: Maximum discharge during period, 1,240 ft<sup>3</sup>/s (35.1 m<sup>3</sup>/s) May 28 (gage height, 9.20 ft or 2.80 m); minimum, 25.4 ft<sup>3</sup>/s (0.719 m<sup>3</sup>/s) Aug. 28, 29 (gage height, 2.58 ft or 0.786 m).

Water year 1974: Maximum discharge, 12,100 ft<sup>3</sup>/s (343 m<sup>3</sup>/s) Jan. 11 (gage height, 12.59 ft or 3.837 m); minimum, 28.8 ft<sup>3</sup>/s (0.816 m<sup>3</sup>/s) July 20, Aug. 1 (gage height, 2.32 ft or 0.707 m).

REMARKS.--Records good. Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

## DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

| DAY   | OCT | NOV   | DEC | JAN | FEB   | MAR | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-----|-------|-----|-----|-------|-----|-------|-------|-------|-------|-------|-------|
| 1     |     |       |     |     |       |     |       |       | 135   | 214   | 53    | 37    |
| 2     |     |       |     |     |       |     |       |       | 124   | 225   | 48    | 34    |
| 3     |     |       |     |     |       |     |       |       | 109   | 94    | 46    | 33    |
| 4     |     |       |     |     |       |     |       |       | 92    | 56    | 46    | 31    |
| 5     |     |       |     |     |       |     |       |       | 204   | 51    | 45    | 31    |
| 6     |     |       |     |     |       |     |       |       | 321   | 41    | 44    | 31    |
| 7     |     |       |     |     |       |     |       |       | 105   | 39    | 43    | 35    |
| 8     |     |       |     |     |       |     |       |       | 82    | 43    | 42    | 34    |
| 9     |     |       |     |     |       |     |       |       | 78    | 40    | 44    | 31    |
| 10    |     |       |     |     |       |     |       |       | 68    | 46    | 44    | 30    |
| 11    |     |       |     |     |       |     |       |       | 56    | 49    | 42    | 30    |
| 12    |     |       |     |     |       |     |       |       | 57    | 36    | 51    | 30    |
| 13    |     |       |     |     |       |     |       |       | 57    | 33    | 61    | 32    |
| 14    |     |       |     |     |       |     |       |       | 53    | 33    | 131   | 48    |
| 15    |     |       |     |     |       |     |       | 143   | 98    | 48    | 49    | 36    |
| 16    |     |       |     |     |       |     |       | 129   | 94    | 265   | 37    | 34    |
| 17    |     |       |     |     |       |     |       | 125   | 56    | 405   | 36    | 31    |
| 18    |     |       |     |     |       |     |       | 111   | 49    | 87    | 36    | 31    |
| 19    |     |       |     |     |       |     |       | 145   | 46    | 91    | 34    | 31    |
| 20    |     |       |     |     |       |     |       | 635   | 202   | 93    | 33    | 31    |
| 21    |     |       |     |     |       |     |       | 249   | 114   | 53    | 31    | 31    |
| 22    |     |       |     |     |       |     |       | 154   | 55    | 46    | 30    | 30    |
| 23    |     |       |     |     |       |     |       | 290   | 46    | 42    | 29    | 57    |
| 24    |     |       |     |     |       |     |       | 282   | 41    | 41    | 28    | 46    |
| 25    |     |       |     |     |       |     |       | 161   | 38    | 41    | 27    | 36    |
| 26    |     |       |     |     |       |     |       | 165   | 37    | 49    | 27    | 32    |
| 27    |     |       |     |     |       |     |       | 728   | 38    | 314   | 26    | 37    |
| 28    |     |       |     |     |       |     |       | 1,060 | 118   | 61    | 26    | 121   |
| 29    |     |       |     |     |       |     |       | 502   | 48    | 52    | 27    | 45    |
| 30    |     |       |     |     |       |     |       | 249   | 47    | 51    | 72    | 42    |
| 31    |     | ----- |     |     | ----- |     | ----- | 164   | ----- | 51    | 79    | ----- |
| TOTAL |     |       |     |     |       |     |       |       | 2,668 | 2,790 | 1,367 | 1,138 |
| MEAN  |     |       |     |     |       |     |       |       | 88.9  | 90.0  | 44.1  | 37.9  |
| MAX   |     |       |     |     |       |     |       |       | 321   | 405   | 131   | 121   |
| MIN   |     |       |     |     |       |     |       |       | 37    | 33    | 26    | 30    |

PEAK DISCHARGE (BASE, 2,000 CFS).--No peak above base.

## TENNESSEE RIVER BASIN

03592800 Yellow Creek near Doskie, Miss.--Continued

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT   | NOV    | DEC    | JAN    | FEB    | MAR   | APR   | MAY   | JUN    | JUL   | AUG   | SEP   |
|-------|-------|--------|--------|--------|--------|-------|-------|-------|--------|-------|-------|-------|
| 1     | 43    | 95     | 355    | 482    | 343    | 189   | 145   | 85    | 2,530  | 42    | 30    | 55    |
| 2     | 55    | 57     | 236    | 297    | 505    | 179   | 191   | 152   | 2,580  | 40    | 31    | 57    |
| 3     | 42    | 52     | 194    | 1,250  | 575    | 170   | 155   | 154   | 1,060  | 38    | 37    | 193   |
| 4     | 40    | 58     | 432    | 2,550  | 350    | 159   | 151   | 245   | 431    | 48    | 194   | 31    |
| 5     | 42    | 115    | 278    | 1,070  | 278    | 154   | 140   | 290   | 263    | 156   | 49    | 52    |
| 6     | 39    | 65     | 179    | 702    | 333    | 162   | 125   | 173   | 209    | 102   | 38    | 52    |
| 7     | 42    | 57     | 151    | 570    | 305    | 149   | 121   | 134   | 255    | 56    | 63    | 55    |
| 8     | 308   | 92     | 143    | 385    | 233    | 140   | 213   | 114   | 1,240  | 75    | 90    | 119   |
| 9     | 101   | 91     | 138    | 1,160  | 203    | 133   | 158   | 115   | 755    | 58    | 55    | 138   |
| 10    | 52    | 63     | 130    | 3,280  | 187    | 131   | 134   | 132   | 559    | 55    | 55    | 91    |
| 11    | 44    | 58     | 121    | 10,200 | 171    | 140   | 124   | 119   | 289    | 103   | 47    | 59    |
| 12    | 41    | 57     | 123    | 3,780  | 164    | 148   | 409   | 215   | 190    | 98    | 58    | 53    |
| 13    | 41    | 58     | 262    | 1,080  | 160    | 123   | 329   | 154   | 159    | 50    | 131   | 119   |
| 14    | 115   | 58     | 164    | 876    | 728    | 115   | 385   | 123   | 127    | 40    | 75    | 105   |
| 15    | 65    | 61     | 140    | 948    | 1,450  | 115   | 215   | 540   | 187    | 36    | 54    | 97    |
| 16    | 50    | 77     | 126    | 694    | 1,240  | 143   | 180   | 806   | 225    | 42    | 63    | 59    |
| 17    | 45    | 61     | 116    | 492    | 932    | 125   | 150   | 279   | 123    | 36    | 51    | 61    |
| 18    | 42    | 60     | 114    | 394    | 586    | 120   | 145   | 174   | 110    | 33    | 44    | 57    |
| 19    | 42    | 66     | 113    | 328    | 590    | 140   | 135   | 135   | 110    | 31    | 41    | 52    |
| 20    | 42    | 64     | 582    | 692    | 367    | 440   | 124   | 111   | 91     | 41    | 39    | 51    |
| 21    | 41    | 725    | 253    | 975    | 423    | 1,250 | 115   | 105   | 77     | 52    | 37    | 57    |
| 22    | 40    | 269    | 170    | 580    | 961    | 1,010 | 139   | 381   | 70     | 35    | 39    | 53    |
| 23    | 40    | 184    | 165    | 476    | 556    | 514   | 177   | 896   | 90     | 59    | 38    | 52    |
| 24    | 39    | 233    | 216    | 999    | 352    | 278   | 133   | 325   | 75     | 55    | 35    | 50    |
| 25    | 39    | 230    | 963    | 1,990  | 256    | 223   | 115   | 155   | 67     | 47    | 34    | 78    |
| 26    | 40    | 291    | 1,220  | 1,120  | 223    | 198   | 110   | 158   | 61     | 72    | 34    | 95    |
| 27    | 39    | 2,980  | 1,250  | 970    | 215    | 192   | 100   | 154   | 55     | 73    | 35    | 252   |
| 28    | 90    | 5,340  | 720    | 1,050  | 197    | 193   | 95    | 115   | 54     | 47    | 35    | 130   |
| 29    | 70    | 2,030  | 445    | 1,100  | -----  | 238   | 92    | 98    | 50     | 41    | 285   | 90    |
| 30    | 51    | 692    | 326    | 738    | -----  | 187   | 88    | 88    | 47     | 36    | 212   | 71    |
| 31    | 80    | -----  | 764    | 464    | -----  | 159   | ----- | 88    | -----  | 32    | 82    | ----- |
| TOTAL | 1,861 | 14,340 | 10,590 | 41,722 | 12,985 | 7,579 | 5,485 | 5,933 | 12,442 | 1,759 | 2,114 | 2,695 |
| MEAN  | 60.0  | 478    | 342    | 1,346  | 464    | 248   | 183   | 220   | 415    | 56.7  | 68.2  | 86.8  |
| MAX   | 308   | 5,340  | 1,250  | 10,200 | 1,450  | 1,250 | 329   | 896   | 2,580  | 156   | 285   | 252   |
| MIN   | 39    | 52     | 113    | 297    | 160    | 116   | 88    | 85    | 47     | 31    | 30    | 50    |
| CFSM  | .42   | 3.34   | 2.39   | 9.41   | 3.24   | 1.73  | 1.23  | 1.54  | 2.90   | .40   | .49   | .61   |
| IN.   | .48   | 3.73   | 2.75   | 10.85  | 3.38   | 2.00  | 1.43  | 1.78  | 3.24   | .46   | .55   | .58   |

WTR YR 1974 TOTAL 120,415 MEAN 330 MAX 10,200 MIN 30 CFSM 2.31 IN 31.32

## PEAK DISCHARGE (BASE, 2,000 CFS)

| DATE  | TIME | G.H.T. | DISCHARGE | DATE  | TIME    | G.H.T. | DISCHARGE |
|-------|------|--------|-----------|-------|---------|--------|-----------|
| 11-28 | 0615 | 11.22  | 6,520     | 01-25 | 0930    | 9.75   | 2,160     |
| 01-04 | 0600 | 10.01  | 2,780     | 06-02 | Unknown | †10.75 | 4,840     |
| 01-11 | 0915 | 12.59  | 12,100    |       |         |        |           |

†From floodmark.

07032000 Mississippi River at Memphis, Tenn.

LOCATION.--Lat 35°07'37", long 90°04'25", Shelby County, on left bank 50 ft (15 m) downstream from Harahan Bridge at Memphis, 1.3 miles (2.1 km) downstream from Beale Street gage, 3.5 miles (5.6 km) downstream from Wolf River, 70 miles (113 km) upstream from St. Francis River, and at mile 734.8 (1,182.3 km).

DRAINAGE AREA.--932,800 mi<sup>2</sup> (2,416,000 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--Discharge: January 1933 to September 1973. Monthly discharge only for some periods, published in WSP 1311.

Gage heights: October 1934 to September 1951 and October 1952 to September 1972 in reports of Geological Survey. Since November 1871, at Beale Street gage, in reports of Mississippi River Commission, December 1890 to August 1932 at Beale Street gage, September 1932 to December 1934 at nonrecording gage 1,000 ft (305 m) downstream, and since December 1934 to water-stage recorder at present site, in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 183.91 ft (56.056 m) above mean sea level. Prior to Apr. 16, 1934, Beale Street nonrecording gage 1.3 miles (2.1 km) upstream at present datum. Apr. 16 to Dec. 21, 1934, nonrecording gage 1,000 ft (305 m) downstream at present datum.

AVERAGE DISCHARGE.--40 years, 462,100 ft<sup>3</sup>/s (13,100 m<sup>3</sup>/s), 334,800,000 acre-ft/yr (413 km<sup>3</sup>/yr).

EXTREMES.--Water year 1973: Maximum discharge, 1,630,000 ft<sup>3</sup>/s (46,200 m<sup>3</sup>/s) Apr. 1-2; maximum gage height, 40.48 ft (12.338 m) May 8; minimum discharge, 212,000 ft<sup>3</sup>/s (6,000 m<sup>3</sup>/s) Sept. 23, gage height, 2.03 ft (0.619 m).

Period of record: Maximum discharge, 1,980,000 ft<sup>3</sup>/s (56,100 m<sup>3</sup>/s) Feb. 8, 1937; maximum gage height, 48.69 ft (14.841 m) Feb. 10, 1937; minimum discharge, 79,200 ft<sup>3</sup>/s (2,240 m<sup>3</sup>/s) Aug. 26, 1936; minimum gage height, -5.35 ft (-1.631 m) Jan. 24, 1956.

Maximum stage prior to 1937, 46.55 ft (14.188 m) Apr. 9, 1913, at Beale Street gage or about 45.2 ft (13.78 m) at present site.

REMARKS.--Records good. Flow regulated by many locks, dams, and reservoirs upstream. Records for 1974 water year are not available for inclusion in this report. They will be published in a subsequent report.

RECORDS FOR WATER YEAR 1973 ARE PUBLISHED ON FOLLOWING PAGES





07266000 Cane Creek near New Albany, Miss.

LOCATION.--Lat 34°34'20", long 88°57'20", in SE¼SW¼ sec.11, T.6 S., R.3 E., Chickasaw meridian, Union County, near right bank on downstream side of bridge on county highway, 450 ft (137 m) upstream from Ellis Creek, 5.1 miles (8.2 km) upstream from mouth, and 6.2 miles (10.0 km) northeast of New Albany.

DRAINAGE AREA.--22.2 mi<sup>2</sup> (57.5 km<sup>2</sup>).

PERIOD OF RECORD.--February 1939 to July 1941, February 1950 to June 1974 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 356.74 ft (108.734 m) above mean sea level. Prior to Mar. 31, 1939, nonrecording gage; Mar. 31, 1939, to July 18, 1941, water-stage recorder and nonrecording gage; Feb. 1 to June 14, 1950, nonrecording gage; June 15, 1950, to Oct. 7, 1955, water-stage recorder; and Oct. 8 to Dec. 9, 1955, nonrecording gage, all at present site. Dec. 10, 1955, to Sept. 30, 1962, water-stage recorder at site 600 ft (183 m) downstream. Prior to Oct. 1, 1955, all gages at datum 10.00 ft (3.048 m) higher.

AVERAGE DISCHARGE.--24 years (1939-40, 1950-73), 38.4 ft<sup>3</sup>/s (1,087 m<sup>3</sup>/s) 23.49 in/yr (597 mm/yr).

EXTREMES.--Maximum discharge during period October 1973 to June 1974, 4,830 ft<sup>3</sup>/s (137 m<sup>3</sup>/s) Nov. 27 (gage height, 15.33 ft or 4.673 m); minimum daily, 4.1 ft<sup>3</sup>/s (0.116 m<sup>3</sup>/s) Oct. 5, 6.  
Period of record: Maximum discharge, 8,680 ft<sup>3</sup>/s (246 m<sup>3</sup>/s) Mar. 21, 1955 (gage height, 19.08 ft or 5.816 m, present datum), from rating curve extended above 4,200 ft<sup>3</sup>/s (119 m<sup>3</sup>/s); no flow Sept. 5-7, 1954.

REMARKS.--Records fair.

REVISIONS.--WSP 1177: Drainage area.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY               | OCT      | NOV     | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL | AUG   | SEP |
|-------------------|----------|---------|-------|-------|-------|-------|-------|-------|-------|-----|-------|-----|
| 1                 | 9.1      | 7.7     | 57    | 44    | 83    | 38    | 43    | 21    | 1,580 |     |       |     |
| 2                 | 8.4      | 6.4     | 44    | 40    | 83    | 16    | 38    | 34    | 150   |     |       |     |
| 3                 | 4.4      | 6.1     | 24    | 1,100 | 132   | 34    | 34    | 24    | 81    |     |       |     |
| 4                 | 4.4      | 8.4     | 97    | 171   | 93    | 33    | 32    | 169   | 55    |     |       |     |
| 5                 | 4.1      | 11      | 49    | 84    | 88    | 34    | 30    | 83    | 100   |     |       |     |
| 6                 | 4.1      | 7.7     | 24    | 78    | 92    | 33    | 28    | 49    | 53    |     |       |     |
| 7                 | 4.4      | 7.1     | 34    | 70    | 82    | 33    | 27    | 37    | 243   |     |       |     |
| 8                 | 4.4      | 11      | 32    | 66    | 56    | 32    | 26    | 43    | 272   |     |       |     |
| 9                 | 26       | 9.4     | 20    | 742   | 51    | 32    | 24    | 48    | 94    |     |       |     |
| 10                | 15       | 7.1     | 29    | 2,420 | 45    | 32    | 23    | 35    | 141   |     |       |     |
| 11                | 14       | 6.2     | 28    | 1,560 | 37    | 33    | 22    | 34    | 63    |     |       |     |
| 12                | 12       | 6.4     | 29    | 214   | 33    | 34    | 122   | 37    | 46    |     |       |     |
| 13                | 11       | 6.4     | 29    | 174   | 33    | 33    | 74    | 28    | 42    |     |       |     |
| 14                | 16       | 6.1     | 26    | 225   | 135   | 32    | 48    | 26    | 36    |     |       |     |
| 15                | 11       | 6.4     | 26    | 165   | 112   | 32    | 38    | 664   | 39    |     |       |     |
| 16                | 10       | 6.2     | 25    | 132   | 198   | 32    | 34    | 165   | 34    |     |       |     |
| 17                | 9.0      | 6.1     | 24    | 88    | 88    | 32    | 32    | 76    | 27    |     |       |     |
| 18                | 9.2      | 6.4     | 24    | 74    | 63    | 32    | 30    | 54    | 32    |     |       |     |
| 19                | 7.5      | 8.1     | 25    | 63    | 134   | 38    | 28    | 41    | 35    |     |       |     |
| 20                | 7.1      | 8.1     | 46    | 135   | 94    | 67    | 26    | 36    | 27    |     |       |     |
| 21                | 6.4      | 115     | 20    | 80    | 312   | 375   | 25    | 36    | 23    |     |       |     |
| 22                | 6.4      | 22      | 28    | 59    | 196   | 86    | 54    | 210   | 19    |     |       |     |
| 23                | 6.1      | 17      | 27    | 66    | 116   | 62    | 34    | 112   | 19    |     |       |     |
| 24                | 5.4      | 15      | 175   | 566   | 58    | 53    | 27    | 49    | 18    |     |       |     |
| 25                | 5.2      | 22      | 490   | 207   | 54    | 46    | 25    | 37    | 16    |     |       |     |
| 26                | 5.2      | 268     | 646   | 200   | 50    | 40    | 23    | 41    | 14    |     |       |     |
| 27                | 5.2      | 2,640   | 146   | 126   | 44    | 35    | 22    | 33    | 13    |     |       |     |
| 28                | 12       | 324     | 82    | 215   | 40    | 50    | 23    | 27    | 13    |     |       |     |
| 29                | 2.4      | 93      | 59    | 107   | ----- | 66    | 21    | 24    | 13    |     |       |     |
| 30                | 6.4      | 75      | 52    | 85    | ----- | 52    | 20    | 22    | 13    |     |       |     |
| 31                | 9.1      | -----   | 51    | 83    | ----- | 50    | ----- | 22    | ----- |     |       |     |
| TOTAL             | 751.5    | 2,769.5 | 2,521 | 9,443 | 2,602 | 1,617 | 1,033 | 2,317 | 3,311 |     |       |     |
| MEAN              | 24.2     | 125     | 81.3  | 305   | 92.9  | 52.2  | 34.4  | 74.7  | 110   |     |       |     |
| MAX               | 466      | 2,640   | 646   | 2,420 | 312   | 375   | 122   | 664   | 1,580 |     |       |     |
| MIN               | 4.1      | 6.1     | 24    | 40    | 33    | 32    | 20    | 21    | 13    |     |       |     |
| CFSM              | 1,09     | 5,52    | 3,46  | 13.7  | 4.18  | 2.35  | 1.55  | 3.36  | 4.96  |     |       |     |
| IN                | 1.26     | 6.30    | 4.22  | 15.82 | 4.36  | 2.71  | 1.73  | 3.88  | 5.55  |     |       |     |
| CAL YR 1973 TOTAL | 22,205.4 | MEAN    | 38.5  | MAX   | 4,090 | MIN   | 1.8   | CFSM  | 3.99  | IN  | 54.14 |     |

## PEAK DISCHARGE (BASE, 1,400 CFS)

| DATE  | TIME | G. H. | DISCHARGE | DATE  | TIME | G. H. | DISCHARGE |
|-------|------|-------|-----------|-------|------|-------|-----------|
| 10-08 | 0945 | 11.27 | 2,640     | 01-03 | 0800 | 12.18 | 3,090     |
| 11-27 | 1900 | 15.33 | 4,830     | 01-10 | 1715 | 15.14 | 4,710     |
| 12-26 | 1030 | 9.31  | 1,820     | 06-01 | 0845 | 13.15 | 3,580     |

## YAZOO RIVER BASIN

07268000 Little Tallahatchie River at Etta, Miss.

LOCATION.--Lat 34°29'00", long 89°13'30", in SE¼SW¼ sec.8, T.7 S., R.1 E., Chickasaw meridian, Union County, on downstream side of left main pier of bridge on State Highway 30, 0.8 mile (1.3 km) northeast of Etta, 3.8 miles (6.1 km) upstream from Puskus Creek, 4 miles (6 km) downstream from Locks Creek, 13 miles (21 km) west of New Albany, and 55.0 miles (88.5 km) upstream from head of Panola-Quitman Floodway.

DRAINAGE AREA.--526 mi<sup>2</sup> (1,362 km<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 Corps of Engineers, Vicksburg district. Prior to October 1971 published as Tallahatchie River at Etta.

GAGE.--Water-stage recorder. Datum of gage is 273.48 ft (83.357 m) above mean sea level (levels by Corps of Engineers). Nov. 23, 1936, to May 31, 1937, nonrecording gage at same site at datum 5.33 ft (1.625 m) 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 (1.524 m) higher.

AVERAGE DISCHARGE.--36 years, 843 ft<sup>3</sup>/s (23.87 m<sup>3</sup>/s), 21.76 in/yr (553 mm/yr).

EXTREMES.--Current year: Maximum discharge, 43,300 ft<sup>3</sup>/s (1,230 m<sup>3</sup>/s) Jan. 11 (gage height, 26.50 ft or 8.077 m); minimum, 38 ft<sup>3</sup>/s (1.08 m<sup>3</sup>/s) Oct. 7 (gage height, 7.11 ft or 2.167 m).  
Period of record: Maximum discharge, 79,000 ft<sup>3</sup>/s (2,240 m<sup>3</sup>/s) Mar. 22, 1955 (gage height, 29.32 ft or 8.937 m); minimum, 4.1 ft<sup>3</sup>/s (0.12 m<sup>3</sup>/s) Oct. 3, 16, 1938.

REMARKS.--Records fair except those for periods of no gage-height record, which are poor.

REVISIONS (WATER YEARS).--WSP 897: Drainage area. WSP 1211: 1948, 1949 (M).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT   | NOV    | DEC    | JAN     | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG   | SEP    |
|-------|-------|--------|--------|---------|--------|--------|--------|--------|--------|--------|-------|--------|
| 1     | 43    | 144    | 994    | 796     | 752    | 460    | 492    | 210    | 16,800 | 120    | 150   | 500    |
| 2     | 81    | 75     | 730    | 559     | 4,530  | 440    | 4,800  | 300    | 15,000 | 110    | 136   | 1,000  |
| 3     | 50    | 63     | 603    | 14,400  | 5,250  | 420    | 1,120  | 363    | 3,300  | 150    | 134   | 4,000  |
| 4     | 41    | 67     | 2,240  | 12,800  | 1,280  | 410    | 630    | 2,080  | 1,130  | 300    | 128   | 700    |
| 5     | 40    | 256    | 1,100  | 3,280   | 789    | 400    | 455    | 3,570  | 3,090  | 500    | 110   | 150    |
| 6     | 39    | 103    | 483    | 1,790   | 723    | 420    | 390    | 759    | 1,500  | 400    | 102   | 130    |
| 7     | 40    | 77     | 344    | 1,830   | 769    | 370    | 366    | 404    | 1,790  | 350    | 107   | 120    |
| 8     | 2,370 | 486    | 298    | 1,050   | 579    | 344    | 564    | 306    | 13,900 | 450    | 120   | 700    |
| 9     | 1,330 | 298    | 272    | 9,850   | 539    | 325    | 409    | 621    | 5,640  | 350    | 108   | 600    |
| 10    | 210   | 104    | 252    | 18,300  | 500    | 317    | 356    | 334    | 4,360  | 280    | 102   | 250    |
| 11    | 118   | 80     | 220    | 37,700  | 460    | 356    | 342    | 294    | 1,450  | 230    | 95    | 150    |
| 12    | 89    | 73     | 216    | 11,900  | 440    | 630    | 2,160  | 723    | 1,760  | 170    | 170   | 120    |
| 13    | 77    | 70     | 232    | 3,220   | 420    | 380    | 4,060  | 308    | 1,280  | 140    | 600   | 500    |
| 14    | 109   | 67     | 208    | 3,440   | 2,580  | 312    | 1,140  | 228    | 564    | 120    | 1,500 | 450    |
| 15    | 122   | 65     | 188    | 3,770   | 5,420  | 304    | 633    | 8,700  | 803    | 100    | 1,000 | 250    |
| 16    | 82    | 71     | 172    | 1,900   | 4,900  | 310    | 466    | 17,200 | 730    | 96     | 300   | 150    |
| 17    | 70    | 65     | 161    | 1,350   | 1,970  | 304    | 394    | 4,380  | 441    | 92     | 150   | 112    |
| 18    | 62    | 61     | 160    | 1,180   | 969    | 302    | 361    | 1,190  | 872    | 100    | 130   | 106    |
| 19    | 59    | 68     | 156    | 1,010   | 2,930  | 306    | 344    | 690    | 951    | 130    | 120   | 99     |
| 20    | 58    | 69     | 690    | 2,900   | 1,130  | 651    | 328    | 511    | 430    | 160    | 110   | 93     |
| 21    | 56    | 2,800  | 387    | 2,190   | 1,660  | 9,800  | 312    | 545    | 370    | 120    | 100   | 89     |
| 22    | 53    | 588    | 246    | 951     | 4,940  | 4,250  | 1,300  | 2,950  | 310    | 120    | 95    | 85     |
| 23    | 52    | 236    | 230    | 2,300   | 1,370  | 1,180  | 1,130  | 11,800 | 260    | 3,670  | 90    | 80     |
| 24    | 51    | 302    | 1,730  | 10,300  | 854    | 730    | 430    | 3,590  | 220    | 3,530  | 85    | 80     |
| 25    | 50    | 958    | 19,100 | 12,100  | 639    | 573    | 328    | 926    | 200    | 435    | 80    | 80     |
| 26    | 49    | 1,420  | 18,600 | 4,520   | 579    | 511    | 300    | 1,290  | 180    | 3,250  | 75    | 90     |
| 27    | 49    | 25,400 | 8,490  | 3,140   | 520    | 475    | 266    | 1,290  | 170    | 5,620  | 70    | 100    |
| 28    | 72    | 30,200 | 2,260  | 4,470   | 490    | 469    | 246    | 531    | 150    | 332    | 70    | 95     |
| 29    | 88    | 6,890  | 1,140  | 2,900   | -----  | 2,570  | 226    | 397    | 140    | 232    | 100   | 90     |
| 30    | 62    | 1,910  | 847    | 1,250   | -----  | 955    | 210    | 346    | 130    | 212    | 200   | 85     |
| 31    | 66    | -----  | 1,100  | 908     | -----  | 497    | -----  | 308    | -----  | 169    | 250   | -----  |
| TOTAL | 5,738 | 73,066 | 63,849 | 178,094 | 47,982 | 29,771 | 24,558 | 67,144 | 77,921 | 22,038 | 6,587 | 11,054 |
| MEAN  | 185   | 2,436  | 2,060  | 5,745   | 1,714  | 960    | 819    | 2,166  | 2,597  | 711    | 212   | 368    |
| MAX   | 2,370 | 30,200 | 19,100 | 37,700  | 5,420  | 9,800  | 4,800  | 17,200 | 16,800 | 5,620  | 1,500 | 4,000  |
| MIN   | 39    | 61     | 166    | 559     | 420    | 302    | 210    | 210    | 130    | 92     | 70    | 80     |
| CFSM  | .35   | 4.63   | 3.92   | 10.9    | 3.26   | 1.83   | 1.56   | 4.12   | 4.94   | 1.35   | .40   | .70    |
| IN.   | .41   | 5.17   | 4.52   | 12.60   | 3.39   | 2.11   | 1.74   | 4.75   | 5.51   | 1.56   | .47   | .78    |

CAL YR 1973 TOTAL 637,681 MEAN 1,747 MAX 52,400 MIN 30 CFSM 3.32 IN 45.10  
WTR YR 1974 TOTAL 607,802 MEAN 1,665 MAX 37,700 MIN 39 CFSM 3.17 IN 42.99

## PEAK DISCHARGE (BASE, 16,000 CFS)

| DATE  | TIME | G. H. | DISCHARGE | DATE  | TIME | G. H. | DISCHARGE |
|-------|------|-------|-----------|-------|------|-------|-----------|
| 11-28 | 0300 | 25.86 | 36,600    | 01-24 | 2315 | 24.00 | 20,000    |
| 12-25 | 1300 | 24.32 | 22,600    | 05-16 | 0215 | 24.30 | 22,400    |
| 01-03 | 2245 | 24.50 | 24,000    | 06-01 | 2345 | 24.85 | 27,000    |
| 01-11 | 0930 | 26.50 | 43,300    | 06-08 | 1545 | 23.71 | 17,700    |

NOTE.--No gage-height record June 21 to July 22 and Aug. 12 to Sept. 16.

07271000 Clear Creek near Oxford, Miss.

LOCATION.--Lat 34°21'20", long 89°39'30", in NW¼SE¼ sec.30, T.8 S., R.4 W., Chickasaw meridian, Lafayette County, near right bank on downstream side of pier of bridge on State Highway 6, 1.0 mile (1.6 km) upstream from Hudson Creek, and 8.3 miles (13.4 km) west of Oxford.

DRAINAGE AREA.--10.3 mi<sup>2</sup> (26.7 km<sup>2</sup>).

PERIOD OF RECORD.--January 1939 to July 1941, February 1950 to March 1973, September 1973 to June 1974 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 273.47 ft (83.354 m) above mean sea level. Prior to Mar. 6, 1939, nonrecording gage. Prior to Oct. 1, 1962, at datum 2.00 ft (0.610 m) higher.

AVERAGE DISCHARGE.--23 years (1939-40, 1950-72), 14.3 ft<sup>3</sup>/s (0.404 m<sup>3</sup>/s), 18.85 in/yr (479 mm/yr).

EXTREMES.--October 1972 to March 1973, September 1973: Maximum discharge during period, 5,040 ft<sup>3</sup>/s (143 m<sup>3</sup>/s) Mar. 14 (gage height, 13.66 ft or 4.164 m); minimum daily, 7.3 ft<sup>3</sup>/s (0.21 m<sup>3</sup>/s) Oct. 20, 21 (period of no gage height record), Sept. 8-11.

October 1973 to June 1974: Maximum discharge during period, 3,690 ft<sup>3</sup>/s (104 m<sup>3</sup>/s) May 15 (gage height, 11.98 ft or 3.652 m); minimum daily, 9.0 ft<sup>3</sup>/s (0.255 m<sup>3</sup>/s) Oct. 4.

Period of record: Maximum discharge, 6,500 ft<sup>3</sup>/s (184 m<sup>3</sup>/s) Apr. 29, 1963 (gage height, 14.34 ft or 4.371 m), from rating curve extended above 2,700 ft<sup>3</sup>/s (76.5 m<sup>3</sup>/s) on basis of slope-area measurements of peak flow; minimum, 3.0 ft<sup>3</sup>/s (0.085 m<sup>3</sup>/s) July 19-22, 1939.

REMARKS.--Records fair.

REVISIONS (WATER YEARS)--WSP 1441: Drainage area. WSP 1561: 1957. WSP 1920: 1939-40, 1950-57, 1958 (M).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY | JUN   | JUL | AUG | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-----|-------|-----|-----|-------|
| 1     | 8.5   | 13    | 10    | 13    | 24    | 11    |       |     |       |     |     | 8.7   |
| 2     | 8.0   | 30    | 10    | 12    | 15    | 21    |       |     |       |     |     | 8.5   |
| 3     | 7.8   | 12    | 9.8   | 35    | 14    | 16    |       |     |       |     |     | 8.2   |
| 4     | 25    | 9.5   | 9.8   | 17    | 13    | 22    |       |     |       |     |     | 7.9   |
| 5     | 10    | 8.5   | 11    | 23    | 13    | 16    |       |     |       |     |     | 8.0   |
| 6     | 8.8   | 8.0   | 24    | 18    | 13    | 59    |       |     |       |     |     | 7.9   |
| 7     | 8.4   | 500   | 12    | 22    | 14    | 30    |       |     |       |     |     | 7.6   |
| 8     | 80    | 11    | 202   | 15    | 56    | 17    |       |     |       |     |     | 7.3   |
| 9     | 7.8   | 9.0   | 48    | 14    | 17    | 13    |       |     |       |     |     | 7.3   |
| 10    | 7.6   | 8.5   | 73    | 14    | 15    | 13    |       |     |       |     |     | 7.3   |
| 11    | 7.5   | 8.2   | 13    | 13    | 14    | 54    |       |     |       |     |     | 7.3   |
| 12    | 7.4   | 8.0   | 12    | 13    | 13    | 20    |       |     |       |     |     | 7.4   |
| 13    | 7.4   | 22    | 12    | 13    | 36    | 24    |       |     |       |     |     | 7.5   |
| 14    | 7.4   | 10    | 159   | 12    | 28    | 368   |       |     |       |     |     | 7.6   |
| 15    | 7.4   | 9.5   | 69    | 12    | 18    | 1,860 |       |     |       |     |     | 7.8   |
| 16    | 7.6   | 9.0   | 16    | 12    | 19    | 1,400 |       |     |       |     |     | 8.1   |
| 17    | 7.6   | 8.8   | 14    | 12    | 17    |       |       |     |       |     |     | 8.2   |
| 18    | 7.5   | 23    | 12    | 12    | 16    |       |       |     |       |     |     | 8.3   |
| 19    | 7.4   | 27    | 15    | 12    | 16    |       |       |     |       |     |     | 8.4   |
| 20    | 7.3   | 11    | 18    | 12    | 15    |       |       |     |       |     |     | 8.4   |
| 21    | 7.3   | 9.9   | 15    | 595   | 14    |       |       |     |       |     |     | 8.3   |
| 22    | 7.5   | 9.6   | 14    | 32    | 13    |       |       |     |       |     |     | 8.3   |
| 23    | 27    | 9.4   | 13    | 22    | 13    |       |       |     |       |     |     | 8.5   |
| 24    | 9.0   | 9.4   | 13    | 15    | 12    |       |       |     |       |     |     | 8.5   |
| 25    | 8.0   | 50    | 12    | 14    | 12    |       |       |     |       |     |     | 8.5   |
| 26    | 7.8   | 12    | 12    | 28    | 11    |       |       |     |       |     |     | 8.6   |
| 27    | 23    | 11    | 12    | 17    | 11    |       |       |     |       |     |     | 8.7   |
| 28    | 9.0   | 12    | 12    | 15    | 11    |       |       |     |       |     |     | 9.0   |
| 29    | 8.0   | 12    | 12    | 14    | ----- |       |       |     |       |     |     | 9.1   |
| 30    | 9.5   | 11    | 20    | 13    | ----- |       |       |     |       |     |     | 9.0   |
| 31    | 25    | ----- | 15    | 13    | ----- |       | ----- |     | ----- |     | 8.9 | ----- |
| TOTAL | 387.5 | 892.3 | 899.6 | 1,084 | 483   |       |       |     |       |     |     | 244.2 |
| MEAN  | 12.5  | 29.7  | 29.0  | 35.0  | 17.3  |       |       |     |       |     |     | 8.14  |
| MAX   | 80    | 500   | 202   | 595   | 56    |       |       |     |       |     |     | 9.1   |
| MIN   | 7.3   | 8.0   | 9.8   | 12    | 11    |       |       |     |       |     |     | 7.3   |
| CFSM  | 1.21  | 2.88  | 2.82  | 3.40  | 1.68  |       |       |     |       |     |     | .79   |
| IN.   | 1.40  | 3.22  | 3.25  | 3.52  | 1.74  |       |       |     |       |     |     | .88   |

CAL YR 1972 TOTAL 5,647.9 MEAN 15.4 MAX 500 MIN 6.7 CFSM 1.50 IN 20.40

## PEAK DISCHARGE (BASE, 900 CFS)

| DATE  | TIME | G. H. | DISCHARGE | DATE  | TIME | G. H. | DISCHARGE |
|-------|------|-------|-----------|-------|------|-------|-----------|
| 12-08 | 2000 | 7.51  | 1,420     | 01-21 | 1030 | 11.11 | 3,110     |
| 12-14 | 2100 | 6.73  | 1,110     | 03-14 | 2400 | 13.66 | 5,040     |

## YAZOO RIVER BASIN

07271000 Clear Creek near Oxford, Miss.--Continued

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT   | NOV     | DEC   | JAN   | FEB   | MAR  | APR   | MAY     | JUN   | JUL | AUG | SEP |
|-------|-------|---------|-------|-------|-------|------|-------|---------|-------|-----|-----|-----|
| 1     | 10    | 9.2     | 13    | 11    | 12    | 13   | 12    | 10      | 154   |     |     |     |
| 2     | 9.5   | 9.2     | 13    | 13    | 16    | 13   | 12    | 17      | 18    |     |     |     |
| 3     | 9.1   | 9.2     | 12    | 240   | 13    | 12   | 11    | 10      | 14    |     |     |     |
| 4     | 9.0   | 16      | 21    | 34    | 12    | 12   | 11    | 75      | 13    |     |     |     |
| 5     | 9.1   | 11      | 12    | 16    | 11    | 12   | 11    | 21      | 261   |     |     |     |
| 6     | 9.2   | 9.9     | 11    | 18    | 11    | 12   | 11    | 12      | 33    |     |     |     |
| 7     | 14    | 9.5     | 11    | 16    | 13    | 12   | 11    | 10      | 43    |     |     |     |
| 8     | 11    | 19      | 11    | 12    | 12    | 12   | 12    | 9.6     | 59    |     |     |     |
| 9     | 10    | 11      | 11    | 151   | 11    | 12   | 11    | 9.6     | 30    |     |     |     |
| 10    | 9.9   | 10      | 10    | 910   | 11    | 12   | 11    | 9.2     | 80    |     |     |     |
| 11    | 9.5   | 9.7     | 10    | 284   | 11    | 13   | 11    | 17      | 30    |     |     |     |
| 12    | 9.5   | 9.5     | 10    | 18    | 11    | 13   | 198   | 13      | 90    |     |     |     |
| 13    | 9.5   | 9.5     | 10    | 12    | 11    | 12   | 24    | 9.2     | 25    |     |     |     |
| 14    | 9.8   | 10      | 9.7   | 21    | 73    | 13   | 29    | 10      | 20    |     |     |     |
| 15    | 9.5   | 12      | 9.7   | 12    | 21    | 13   | 16    | 885     | 40    |     |     |     |
| 16    | 9.3   | 11      | 9.7   | 12    | 58    | 13   | 13    | 62      | 30    |     |     |     |
| 17    | 9.2   | 10      | 9.6   | 11    | 20    | 12   | 12    | 21      | 17    |     |     |     |
| 18    | 9.2   | 10      | 9.7   | 11    | 64    | 12   | 12    | 14      | 80    |     |     |     |
| 19    | 9.2   | 10      | 11    | 11    | 147   | 12   | 12    | 14      | 70    |     |     |     |
| 20    | 9.1   | 27      | 11    | 11    | 25    | 13   | 11    | 12      | 20    |     |     |     |
| 21    | 9.2   | 21      | 9.7   | 11    | 158   | 51   | 10    | 12      | 16    |     |     |     |
| 22    | 9.1   | 13      | 9.6   | 11    | 30    | 17   | 74    | 164     | 14    |     |     |     |
| 23    | 9.2   | 12      | 9.7   | 11    | 20    | 14   | 24    | 25      | 50    |     |     |     |
| 24    | 9.2   | 13      | 44    | 125   | 15    | 14   | 18    | 14      | 20    |     |     |     |
| 25    | 9.1   | 18      | 36    | 21    | 14    | 12   | 15    | 12      | 15    |     |     |     |
| 26    | 9.2   | 140     | 87    | 23    | 13    | 12   | 12    | 12      | 14    |     |     |     |
| 27    | 9.2   | 894     | 24    | 27    | 13    | 12   | 12    | 12      | 13    |     |     |     |
| 28    | 9.8   | 59      | 17    | 94    | 13    | 12   | 11    | 12      | 13    |     |     |     |
| 29    | 9.2   | 18      | 15    | 56    | ----- | 23   | 10    | 12      | 12    |     |     |     |
| 30    | 9.1   | 14      | 13    | 20    | ----- | 13   | 10    | 12      | 12    |     |     |     |
| 31    | 9.2   | -----   | 12    | 14    | ----- | 12   | ----- | 14      | ----- |     |     |     |
| TOTAL | 296.1 | 1,434.7 | 502.4 | 2,237 | 839   | 440  | 647   | 1,541.6 | 1,306 |     |     |     |
| MEAN  | 9.55  | 47.8    | 16.2  | 72.2  | 30.0  | 14.2 | 21.6  | 49.7    | 43.5  |     |     |     |
| MAX   | 14    | 894     | 87    | 910   | 158   | 51   | 198   | 885     | 261   |     |     |     |
| MIN   | 9.0   | 9.2     | 9.6   | 11    | 11    | 12   | 10    | 9.2     | 12    |     |     |     |
| CFSM  | .93   | 4.64    | 1.57  | 7.01  | 2.91  | 1.38 | 2.10  | 4.83    | 4.22  |     |     |     |
| IN.   | 1.07  | 5.18    | 1.81  | 8.08  | 3.03  | 1.59 | 2.34  | 5.57    | 4.72  |     |     |     |

## PEAK DISCHARGE (BASE, 900 CFS)

| DATE  | TIME | G. H. | DISCHARGE | DATE  | TIME | G. H. | DISCHARGE |
|-------|------|-------|-----------|-------|------|-------|-----------|
| 11-27 | 1615 | 11.78 | 3,550     | 05-15 | 0845 | 11.98 | 3,690     |
| 01-10 | 1130 | 9.14  | 2,110     | 06-05 | 0430 | 8.41  | 1,780     |
| 04-12 | 0500 | 7.03  | 1,230     |       |      |       |           |

## 07272000 Sardis Lake near Sardis, Miss.

LOCATION.--Lat 34°23'57", long 89°47'10", in NE¼SW¼ sec.12, T.8 S., R.6 W., Chickasaw meridian, Panola County, in gagehouse of dam of Little Tallahatchie River, 7.5 miles (12.1 km) southeast of Sardis, and 25.7 miles (41.4 km) upstream from head of Panola-Quitman Floodway.

DRAINAGE AREA.--1,545 mi<sup>2</sup> (4,002 km<sup>2</sup>).

PERIOD OF RECORD.--September 1939 to current year. Prior to October 1970 published as Sardis Reservoir near Sardis.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1958, at datum 219.43 ft (66.882 m) above mean sea level.

EXTREMES.--Current year: Maximum contents, 1,355,700 acre-ft (1,670 hm<sup>3</sup>) June 24 (elevation 277.61 ft or 84.616 m); minimum, 475,000 acre-ft (586 hm<sup>3</sup>) Nov. 26 (elevation, 255.46 ft or 77.864 m).  
Period of record: Maximum contents, 1,840,700 acre-ft (2,270 hm<sup>3</sup>) Apr. 28, 1973 (elevation, 285.83 ft or 87.121 m); minimum since initial filling of reservoir to conservation level, 47,900 acre-ft (59.1 hm<sup>3</sup>) Oct. 3, 1941 (elevation, 228.93 ft or 69.778 m).

REMARKS.--Reservoir is formed by hydraulic-fill earth dam, with concrete spillway and outlet tunnel on opposite ends of dam. Storage began Aug. 26, 1939; dam completed Aug. 1, 1940. Capacity, 1,569,900 acre-ft (1,940 hm<sup>3</sup>) at elevation 281.4 ft (85.771 m), crest of spillway, of which about 1,461,900 acre-ft or 1,800 hm<sup>3</sup> is available for flood-control storage and about 108,000 acre-ft (133 hm<sup>3</sup>) of storage is maintained in conservation pool for incidental recreational purposes at elevation 236.0 ft (71.93 m), 16.6 ft (5.06 m) above sill of outlet tunnel. Water below elevation 219.4 ft (66.873 m) cannot be withdrawn through outlet tunnel. Figures given herein represent total contents.

COOPERATION.--Elevation and contents furnished by Corps of Engineers; records reviewed by Geological Survey.

Capacity table (elevation, in feet, and contents, in thousands of acre-feet)

|     |       |     |       |     |         |
|-----|-------|-----|-------|-----|---------|
| 240 | 157.1 | 255 | 462.2 | 270 | 988.2   |
| 245 | 235.8 | 260 | 612.5 | 275 | 1,220.7 |
| 250 | 336.2 | 265 | 787.2 | 280 | 1,487.5 |

## CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 0800, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY | OCT    | NOV    | DEC    | JAN     | FEB     | MAR     | APR     | MAY     | JUN     | JUL     | AUG     | SEP    |
|-----|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 1   | 843.7  | 622.0  | 726.1  | 726.1   | 1,245.5 | 1,282.6 | 1,052.2 | 919.9   | 1,143.2 | 1,303.3 | 1,118.9 | 876.9  |
| 2   | 839.9  | 614.1  | 738.3  | 723.9   | 1,291.9 | 1,273.8 | 1,049.1 | 916.6   | 1,181.8 | 1,294.0 | 1,110.0 | 879.3  |
| 3   | 834.8  | 602.2  | 740.8  | 720.0   | 1,289.3 | 1,266.1 | 1,039.2 | 913.3   | 1,222.2 | 1,285.2 | 1,100.3 | 885.7  |
| 4   | 827.4  | 595.8  | 743.7  | 733.3   | 1,289.3 | 1,256.0 | 1,032.9 | 911.3   | 1,246.9 | 1,276.9 | 1,091.0 | 887.3  |
| 5   | 820.1  | 594.1  | 744.4  | 768.3   | 1,288.3 | 1,246.9 | 1,026.7 | 914.6   | 1,254.9 | 1,270.2 | 1,080.3 | 884.1  |
| 6   | 813.7  | 590.3  | 745.5  | 794.7   | 1,284.7 | 1,239.3 | 1,017.5 | 922.0   | 1,267.1 | 1,264.1 | 1,070.7 | 877.3  |
| 7   | 804.9  | 583.9  | 745.1  | 803.1   | 1,281.0 | 1,230.7 | 1,009.1 | 926.9   | 1,272.2 | 1,258.0 | 1,059.9 | 868.5  |
| 8   | 798.5  | 576.6  | 743.0  | 808.7   | 1,275.9 | 1,222.2 | 999.1   | 926.9   | 1,276.9 | 1,248.9 | 1,050.0 | 862.1  |
| 9   | 791.7  | 570.4  | 736.5  | 810.6   | 1,269.2 | 1,213.4 | 991.2   | 925.3   | 1,291.9 | 1,240.3 | 1,040.5 | 861.3  |
| 10  | 788.0  | 563.2  | 729.3  | 831.3   | 1,262.0 | 1,204.4 | 982.6   | 923.2   | 1,317.9 | 1,231.3 | 1,030.7 | 858.2  |
| 11  | 783.8  | 555.4  | 722.9  | 839.8   | 1,254.4 | 1,196.0 | 974.5   | 921.2   | 1,335.4 | 1,221.7 | 1,021.0 | 851.9  |
| 12  | 777.2  | 547.7  | 715.4  | 1,070.3 | 1,247.4 | 1,187.7 | 967.2   | 918.7   | 1,342.3 | 1,212.3 | 1,011.3 | 844.1  |
| 13  | 771.6  | 540.1  | 707.3  | 1,154.6 | 1,239.3 | 1,179.3 | 973.2   | 916.2   | 1,345.5 | 1,202.9 | 1,002.6 | 837.1  |
| 14  | 763.5  | 532.3  | 701.7  | 1,188.2 | 1,231.3 | 1,171.0 | 980.9   | 913.3   | 1,346.6 | 1,194.1 | 996.9   | 829.4  |
| 15  | 756.1  | 524.3  | 696.1  | 1,202.9 | 1,232.3 | 1,161.4 | 986.9   | 912.9   | 1,345.5 | 1,183.3 | 995.6   | 820.9  |
| 16  | 785.7  | 516.8  | 688.2  | 1,215.2 | 1,248.4 | 1,149.9 | 986.5   | 957.0   | 1,344.5 | 1,173.0 | 994.7   | 811.8  |
| 17  | 741.5  | 509.6  | 680.9  | 1,221.2 | 1,263.6 | 1,138.8 | 982.2   | 989.9   | 1,343.4 | 1,162.8 | 991.2   | 803.1  |
| 18  | 732.9  | 501.7  | 673.7  | 1,222.2 | 1,270.7 | 1,130.7 | 975.8   | 1,022.3 | 1,340.7 | 1,152.7 | 986.0   | 794.0  |
| 19  | 725.0  | 495.1  | 665.9  | 1,222.2 | 1,274.4 | 1,120.3 | 968.5   | 1,035.6 | 1,345.5 | 1,142.7 | 980.0   | 785.0  |
| 20  | 717.2  | 487.9  | 658.0  | 1,221.7 | 1,286.2 | 1,110.5 | 961.7   | 1,040.5 | 1,345.5 | 1,132.2 | 970.7   | 776.0  |
| 21  | 708.7  | 483.1  | 650.6  | 1,220.2 | 1,290.4 | 1,103.5 | 953.2   | 1,044.6 | 1,346.1 | 1,123.6 | 961.7   | 766.8  |
| 22  | 701.0  | 484.5  | 643.8  | 1,219.2 | 1,290.4 | 1,102.1 | 943.5   | 1,047.3 | 1,347.7 | 1,111.0 | 951.1   | 758.3  |
| 23  | 693.0  | 486.0  | 636.9  | 1,217.7 | 1,306.5 | 1,105.4 | 941.8   | 1,068.9 | 1,353.0 | 1,100.7 | 941.0   | 751.3  |
| 24  | 685.0  | 483.4  | 628.3  | 1,215.7 | 1,311.2 | 1,106.8 | 942.3   | 1,089.6 | 1,355.7 | 1,100.7 | 931.5   | 741.9  |
| 25  | 677.1  | 478.9  | 625.0  | 1,219.7 | 1,310.1 | 1,105.4 | 941.8   | 1,110.5 | 1,355.1 | 1,108.2 | 922.4   | 732.2  |
| 26  | 668.9  | 475.6  | 632.2  | 1,234.3 | 1,307.0 | 1,097.9 | 939.8   | 1,119.4 | 1,350.3 | 1,110.0 | 913.3   | 724.7  |
| 27  | 661.4  | 488.8  | 666.2  | 1,255.5 | 1,300.2 | 1,090.1 | 936.9   | 1,124.6 | 1,342.3 | 1,118.9 | 904.3   | 717.2  |
| 28  | 652.9  | 550.8  | 701.4  | 1,275.3 | 1,291.4 | 1,081.3 | 933.1   | 1,129.3 | 1,332.8 | 1,128.4 | 895.4   | 710.4  |
| 29  | 645.2  | 636.9  | 721.4  | 1,286.2 | -----   | 1,073.0 | 928.6   | 1,132.2 | 1,322.7 | 1,129.8 | 885.3   | 705.5  |
| 30  | 637.5  | 698.6  | 726.4  | 1,293.5 | -----   | 1,065.7 | 924.5   | 1,133.6 | 1,312.7 | 1,129.3 | 877.3   | 697.5  |
| 31  | 629.6  | -----  | 728.6  | 1,297.6 | -----   | 1,059.9 | -----   | 1,134.1 | -----   | 1,125.0 | 875.7   | -----  |
| MAX | 843.7  | 698.6  | 745.5  | 1,297.6 | 1,311.2 | 1,282.6 | 1,052.2 | 1,134.1 | 1,355.7 | 1,303.3 | 1,118.9 | 887.3  |
| MIN | 629.6  | 475.6  | 625.0  | 720.0   | 1,231.3 | 1,059.9 | 924.5   | 911.3   | 1,143.2 | 1,100.7 | 875.7   | 697.5  |
| (+) | 260.37 | 263.20 | 263.38 | 276.49  | 276.25  | 271.50  | 268.40  | 273.25  | 276.68  | 273.00  | 267.30  | 262.41 |
| (-) | -223.7 | +96.7  | +6.5   | +568.7  | -12.5   | -229.6  | -133.8  | +214.8  | +171.0  | -182.9  | -247.5  | -182.4 |

CAL YR 1973..... (+) +99.5

VTR YR 1974..... (+) -154.7

(+) Elevation, in feet, at 2400 on last day of month.

(-) Change in contents, in acre-feet.



## YAZOO RIVER BASIN

07272500 Little Tallahatchie River at Sardis Dam, near Sardis, Miss.

LOCATION.--Lat 34°23'57", long 89°47'10", in SW¼ sec.12, T.8 S., R.6 W., Chickasaw meridian, Panola County, in gatehouse of Sardis Dam, 7.5 miles (12.1 km) southeast of Sardis, and 25.7 miles (41.4 km) upstream from head of Panola-Quitman Floodway.

DRAINAGE AREA.--1,545 mi<sup>2</sup> (4,002 km<sup>2</sup>).

PERIOD OF RECORD.--January 1940 to September 1973. Prior to October 1972 published as Tallahatchie River at Sardis Dam, near Sardis.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Jan. 1, 1948, at site 300 ft (91 m) downstream at datum 194.43 ft (59.262 m) above mean sea level. Jan. 1, 1948, to Sept. 30, 1958, at present site and datum 219.43 ft (66.882 m) above mean sea level.

AVERAGE DISCHARGE.--33 years, 2,221 ft<sup>3</sup>/s (62.90 m<sup>3</sup>/s), 19.52 in/yr (496 mm/yr), unadjusted.

EXTREMES.--Water year 1973: Maximum daily discharge, 11,900 ft<sup>3</sup>/s (337 m<sup>3</sup>/s) Apr. 28; minimum discharge, 15 ft<sup>3</sup>/s (0.42 m<sup>3</sup>/s) at times.

Period of record: Maximum discharge, 11,900 ft<sup>3</sup>/s (337 m<sup>3</sup>/s) Apr. 28, 1973; no flow at times each year prior to 1959.

REMARKS.--Flow completely regulated by Sardis Lake (see sta 07272000).

COOPERATION.--Records furnished by Corps of Engineers and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1147: 1946(M). WSP 1711: 1942(M).

NOTE.--Records for 1974 water year will be published in a subsequent report.

07274000 Yocona River near Oxford, Miss.

LOCATION.--Lat 34°16'23", long 89°31'11", in SE¼NW¼ sec.28, T.9 S., R.3 W., Chickasaw meridian, Lafayette County, near left bank on downstream side of pier of bridge on State Highway 7, 1.5 miles (2.4 km) downstream from Burney Branch, 6 miles (10 km) south of Oxford, and at mile 42.3 (68.1 km).

DRAINAGE AREA.--262 mi<sup>2</sup> (679 km<sup>2</sup>).

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

GAGE.--Water-stage recorder and supplemental nonrecording gage read once daily. Datum of gage is 267.20 ft or 81.443 m (corrected) above mean sea level. Prior to Jan. 1, 1972, at datum 5.00 ft (1.524 m) higher.

AVERAGE DISCHARGE.--28 years (1946-74), 381 ft<sup>3</sup>/s (10.79 m<sup>3</sup>/s), 19.75 in/yr (502 mm/yr).

EXTREMES.--Current year: Maximum discharge, 12,400 ft<sup>3</sup>/s (351 m<sup>3</sup>/s) Nov. 27 (gage height, 26.80 ft or 8.169 m, from graph based on gage readings); minimum daily, 33 ft<sup>3</sup>/s (0.93 m<sup>3</sup>/s) Oct. 6, 21-23.

Period of record: Maximum discharge, 44,100 ft<sup>3</sup>/s (1,250 m<sup>3</sup>/s) Mar. 21, 1955 (gage height, 28.72 ft or 8.754 m), from rating curve extended above 22,000 ft<sup>3</sup>/s (623 m<sup>3</sup>/s); minimum, 4.4 ft<sup>3</sup>/s (0.12 m<sup>3</sup>/s) Sept. 14, 1954.

REMARKS.--Records fair. Records of chemical analyses for the current year are published in Part 2 of this report.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT   | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG   | SEP   |
|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 1     | 114   | 49     | 1,030  | 546    | 528    | 248    | 341    | 125    | 2,590  | 133    | 152   | 134   |
| 2     | 135   | 50     | 780    | 458    | 1,010  | 232    | 555    | 179    | 1,560  | 125    | 124   | 279   |
| 3     | 49    | 41     | 692    | 3,660  | 1,550  | 218    | 582    | 177    | 1,470  | 112    | 117   | 408   |
| 4     | 45    | 102    | 1,170  | 3,490  | 1,740  | 206    | 824    | 383    | 935    | 117    | 107   | 171   |
| 5     | 34    | 327    | 794    | 2,040  | 979    | 206    | 519    | 616    | 1,020  | 143    | 93    | 132   |
| 6     | 33    | 209    | 575    | 1,290  | 748    | 207    | 296    | 556    | 910    | 304    | 88    | 97    |
| 7     | 87    | 116    | 358    | 1,040  | 526    | 186    | 240    | 418    | 705    | 250    | 115   | 77    |
| 8     | 244   | 555    | 264    | 820    | 512    | 171    | 254    | 207    | 2,170  | 154    | 115   | 90    |
| 9     | 190   | 544    | 220    | 1,790  | 382    | 159    | 211    | 152    | 1,750  | 130    | 89    | 157   |
| 10    | 200   | 332    | 191    | 4,790  | 315    | 150    | 190    | 141    | 2,570  | 118    | 85    | 130   |
| 11    | 75    | 160    | 160    | 10,000 | 265    | 189    | 152    | 138    | 1,180  | 107    | 75    | 93    |
| 12    | 59    | 107    | 154    | 5,790  | 240    | 203    | 1,100  | 250    | 1,380  | 103    | 146   | 90    |
| 13    | 52    | 93     | 144    | 2,000  | 228    | 184    | 1,520  | 255    | 1,180  | 96     | 464   | 91    |
| 14    | 65    | 86     | 136    | 1,720  | 474    | 155    | 1,190  | 150    | 932    | 92     | 228   | 372   |
| 15    | 62    | 78     | 131    | 1,840  | 505    | 138    | 935    | 4,840  | 754    | 100    | 205   | 325   |
| 16    | 60    | 72     | 120    | 1,500  | 963    | 135    | 552    | 6,010  | 535    | 127    | 633   | 154   |
| 17    | 52    | 69     | 116    | 1,120  | 590    | 130    | 341    | 3,050  | 385    | 109    | 595   | 95    |
| 18    | 48    | 69     | 110    | 885    | 572    | 122    | 273    | 1,390  | 404    | 96     | 260   | 79    |
| 19    | 42    | 71     | 112    | 750    | 1,150  | 124    | 250    | 927    | 1,150  | 83     | 165   | 76    |
| 20    | 37    | 427    | 276    | 716    | 740    | 200    | 220    | 720    | 904    | 90     | 111   | 59    |
| 21    | 33    | 1,140  | 290    | 782    | 1,060  | 2,240  | 200    | 542    | 590    | 93     | 104   | 84    |
| 22    | 33    | 577    | 188    | 772    | 1,510  | 1,810  | 1,020  | 1,980  | 528    | 75     | 81    | 90    |
| 23    | 33    | 529    | 148    | 1,040  | 914    | 991    | 985    | 4,020  | 927    | 616    | 69    | 59    |
| 24    | 34    | 344    | 544    | 2,900  | 738    | 516    | 705    | 2,520  | 439    | 1,040  | 69    | 59    |
| 25    | 36    | 539    | 3,900  | 3,600  | 427    | 374    | 441    | 1,350  | 280    | 618    | 65    | 84    |
| 26    | 34    | 758    | 4,080  | 2,380  | 326    | 309    | 244    | 1,010  | 221    | 1,340  | 61    | 92    |
| 27    | 36    | 7,330  | 2,770  | 1,670  | 296    | 255    | 195    | 802    | 190    | 1,580  | 77    | 95    |
| 28    | 49    | 7,010  | 1,580  | 1,850  | 274    | 250    | 167    | 586    | 172    | 1,120  | 84    | 99    |
| 29    | 41    | 3,020  | 1,030  | 1,420  | -----  | 947    | 143    | 396    | 153    | 658    | 73    | 75    |
| 30    | 45    | 1,500  | 808    | 1,180  | -----  | 588    | 129    | 296    | 141    | 296    | 176   | 54    |
| 31    | 46    | -----  | 694    | 832    | -----  | 518    | -----  | 293    | -----  | 194    | 213   | ----- |
| TOTAL | 2,103 | 26,304 | 23,565 | 64,671 | 20,063 | 12,581 | 15,102 | 34,419 | 27,928 | 10,229 | 5,144 | 3,872 |
| MEAN  | 67.8  | 877    | 760    | 2,086  | 717    | 406    | 503    | 1,110  | 931    | 330    | 165   | 129   |
| MAX   | 244   | 7,330  | 4,080  | 10,000 | 1,740  | 2,240  | 1,520  | 5,010  | 2,590  | 1,580  | 595   | 408   |
| MIN   | 33    | 41     | 110    | 458    | 228    | 122    | 129    | 125    | 141    | 75     | 61    | 59    |
| CFSM  | .26   | 3.35   | 2.90   | 7.96   | 2.74   | 1.55   | 1.92   | 4.24   | 3.55   | 1.26   | .63   | .49   |
| IN.   | .30   | 3.73   | 3.35   | 9.18   | 2.85   | 1.79   | 2.14   | 4.89   | 3.97   | 1.45   | .73   | .55   |

CAL YR 1973 TOTAL 261,248 MEAN 716 MAX 15,300 MIN 25 CFSM 2.73 IN 37.09  
WTR YR 1974 TOTAL 245,981 MEAN 674 MAX 10,000 MIN 33 CFSM 2.57 IN 34.93

## PEAK DISCHARGE (BASE, 8,000 CFS)

| DATE  | TIME    | G. H.  | DISCHARGE | DATE  | TIME | G. H. | DISCHARGE |
|-------|---------|--------|-----------|-------|------|-------|-----------|
| 11-27 | Unknown | +26.80 | 12,400    | 01-11 | 0415 | 26.60 | 11,000    |

†From graph based on gage readings.

## YAZOO RIVER BASIN

07274500 Enid Lake near Enid, Miss.

LOCATION.--Lat 34°09'29", long 89°54'14", in SW¼NE¼ sec.2, T.11 S., R.7 W., Chickasaw meridian, Yalobusha County, in gatehouse of dam on Yocona River, 0.8 mile (1.3 km) upstream from U.S. Highway 51, 2.8 miles (4.5 km) upstream from Illinois Central Railroad bridge, 3.2 miles (5.1 km) northeast of Enid, and 13.5 miles (21.7 km) upstream from the mouth of Yocona River.

DRAINAGE AREA.--560 mi<sup>2</sup> (1,450 km<sup>2</sup>).

PERIOD OF RECORD.--July 1951 to current year. Prior to October 1970, published as Enid Reservoir near Enid.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to May 24, 1952, nonrecording gage at same site. Prior to Oct. 1, 1958, at datum 200.00 ft (60.960 m) above mean sea level.

EXTREMES.--Current year: Maximum contents, 609,300 acre-ft (751 hm<sup>3</sup>) June 24 (elevation, 266.14 ft or 81.119 m); minimum, 93,600 acre-ft (115 hm<sup>3</sup>) Nov. 20 (elevation, 235.03 ft or 71.637 m).

Period of record: Maximum contents, 752,000 acre-ft (927 hm<sup>3</sup>) Apr. 28, 1973 (elevation, 271.15 ft or 82.647 m); minimum since initial filling of reservoir to conservation level, 480 acre-ft (592,000 m<sup>3</sup>) Sept. 23 to Oct. 7, 1952; minimum elevation, 207.10 ft (63.124 m) Oct. 3-7, 1952.

REMARKS.--Reservoir is formed by rolled-filled earth dam with concrete spillway and outlet tunnel. Storage began July 16, 1951. Capacity, 660,000 acre-ft (814 hm<sup>3</sup>) at elevation 268.0 ft (81.69 m), crest of spillway, of which about 602,400 acre-ft (743 hm<sup>3</sup>) is available for flood control and about 57,600 acre-ft (71.0 hm<sup>3</sup>) of storage is maintained in conservation pool for incidental recreational purposes at elevation 230.0 ft (70.10 m), 25 ft (7.6 m) above sill of outlet tunnel. Water below elevation 205.0 ft (62.48 m) cannot be withdrawn through outlet tunnel. Figures given herein represent total contents.

COOPERATION.--Records furnished by Corps of Engineers and reviewed by Geological Survey.

Capacity table (elevation, in feet, and contents, in thousands of acre-feet)

|     |       |     |       |     |       |
|-----|-------|-----|-------|-----|-------|
| 230 | 57.6  | 245 | 197.3 | 260 | 460.2 |
| 235 | 93.4  | 250 | 270.0 | 265 | 579.5 |
| 240 | 139.4 | 255 | 358.2 | 272 | 778.1 |

CONTENTS, IN ACRE-FEET, AT 0800, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY | OCT     | NOV      | DEC     | JAN      | FEB     | MAR     | APR     | MAY      | JUN     | JUL     | AUG      | SEP     |
|-----|---------|----------|---------|----------|---------|---------|---------|----------|---------|---------|----------|---------|
| 1   | 169,100 | 112,800  | 218,200 | 223,200  | 417,000 | 371,400 | 304,300 | 356,700  | 528,800 | 589,900 | 514,200  | 395,200 |
| 2   | 167,000 | 113,000  | 220,800 | 220,000  | 416,600 | 367,400 | 305,500 | 358,000  | 538,100 | 585,700 | 508,200  | 397,200 |
| 3   | 164,500 | 113,300  | 221,700 | 223,800  | 418,200 | 363,900 | 306,800 | 358,600  | 542,500 | 583,100 | 504,200  | 399,600 |
| 4   | 161,500 | 113,500  | 221,800 | 246,300  | 419,500 | 359,300 | 306,800 | 360,100  | 545,200 | 580,800 | 499,300  | 397,800 |
| 5   | 159,300 | 117,300  | 220,600 | 253,100  | 420,300 | 355,200 | 307,500 | 363,000  | 549,600 | 578,200 | 494,500  | 393,800 |
| 6   | 156,200 | 118,600  | 217,900 | 255,500  | 419,500 | 351,100 | 308,000 | 365,100  | 552,900 | 578,200 | 489,600  | 389,600 |
| 7   | 153,300 | 119,200  | 213,900 | 256,200  | 416,800 | 345,600 | 308,200 | 366,600  | 552,400 | 573,900 | 485,300  | 385,300 |
| 8   | 151,500 | 121,300  | 209,000 | 255,300  | 412,900 | 339,900 | 307,300 | 366,600  | 563,000 | 570,600 | 482,300  | 383,700 |
| 9   | 149,400 | 126,200  | 204,400 | 253,900  | 409,200 | 334,200 | 303,000 | 367,200  | 566,800 | 566,800 | 477,300  | 384,100 |
| 10  | 146,800 | 127,500  | 199,400 | 256,600  | 405,100 | 328,200 | 308,500 | 367,200  | 582,900 | 562,700 | 473,100  | 380,600 |
| 11  | 144,600 | 126,500  | 197,800 | 316,000  | 401,100 | 322,400 | 303,900 | 367,600  | 587,800 | 557,600 | 468,200  | 376,400 |
| 12  | 143,000 | 123,000  | 196,500 | 348,600  | 396,800 | 317,600 | 314,200 | 369,100  | 587,600 | 553,800 | 463,100  | 372,400 |
| 13  | 139,500 | 119,100  | 194,900 | 367,200  | 392,800 | 311,700 | 324,600 | 369,900  | 595,900 | 548,600 | 462,600  | 369,500 |
| 14  | 137,900 | 115,600  | 193,700 | 372,600  | 388,100 | 306,100 | 330,200 | 370,400  | 596,700 | 543,700 | 461,500  | 368,700 |
| 15  | 135,900 | 112,300  | 192,100 | 382,500  | 385,900 | 300,100 | 334,000 | 377,000  | 597,200 | 539,500 | 457,600  | 367,000 |
| 16  | 134,000 | 108,800  | 190,400 | 386,300  | 384,100 | 294,000 | 335,600 | 435,500  | 596,400 | 534,900 | 453,200  | 363,900 |
| 17  | 131,800 | 105,600  | 188,800 | 386,100  | 382,500 | 288,700 | 336,600 | 452,800  | 594,600 | 530,700 | 449,500  | 360,100 |
| 18  | 128,600 | 101,800  | 186,600 | 384,300  | 379,600 | 282,800 | 337,300 | 453,000  | 592,200 | 526,400 | 445,800  | 355,900 |
| 19  | 125,400 | 98,700   | 183,000 | 381,700  | 379,400 | 281,500 | 337,500 | 462,400  | 596,200 | 521,800 | 441,500  | 352,000 |
| 20  | 121,400 | 95,500   | 179,600 | 379,400  | 381,700 | 281,700 | 338,400 | 464,000  | 596,200 | 517,700 | 437,000  | 347,900 |
| 21  | 119,600 | 98,800   | 176,300 | 377,400  | 380,000 | 286,200 | 339,300 | 466,200  | 597,700 | 513,700 | 432,400  | 344,700 |
| 22  | 116,000 | 101,400  | 172,700 | 374,700  | 387,300 | 293,800 | 341,500 | 467,100  | 598,800 | 507,700 | 429,300  | 339,900 |
| 23  | 112,800 | 101,400  | 169,100 | 373,300  | 390,800 | 295,900 | 350,700 | 491,700  | 605,600 | 505,800 | 423,000  | 335,600 |
| 24  | 105,500 | 99,500   | 166,300 | 377,000  | 388,600 | 297,600 | 353,300 | 502,100  | 608,500 | 506,600 | 418,600  | 331,300 |
| 25  | 110,100 | 98,300   | 183,400 | 396,200  | 387,700 | 298,300 | 354,600 | 507,700  | 609,100 | 504,200 | 414,100  | 326,900 |
| 26  | 110,300 | 97,100   | 199,400 | 402,900  | 384,100 | 298,100 | 355,400 | 513,500  | 608,300 | 507,000 | 409,800  | 323,700 |
| 27  | 110,500 | 125,100  | 216,400 | 407,400  | 379,800 | 298,100 | 355,700 | 515,600  | 607,500 | 519,900 | 405,300  | 319,900 |
| 28  | 111,000 | 178,400  | 222,100 | 411,400  | 375,800 | 298,100 | 355,900 | 517,300  | 604,000 | 522,500 | 401,300  | 316,000 |
| 29  | 111,600 | 205,400  | 223,500 | 417,000  | -----   | 300,300 | 356,100 | 518,200  | 598,800 | 522,300 | 396,600  | 312,100 |
| 30  | 111,900 | 215,000  | 224,500 | 417,800  | -----   | 302,900 | 356,100 | 518,500  | 595,100 | 521,600 | 394,200  | 308,200 |
| 31  | 112,900 | -----    | 225,400 | 417,600  | -----   | 303,800 | -----   | 517,300  | -----   | 518,500 | 394,600  | -----   |
| MAX | 169,100 | 215,000  | 225,400 | 417,800  | 420,300 | 371,400 | 356,100 | 518,500  | 609,100 | 589,900 | 514,200  | 399,600 |
| MIN | 105,500 | 95,500   | 166,300 | 220,000  | 375,800 | 281,500 | 304,300 | 356,700  | 528,800 | 504,200 | 394,200  | 308,200 |
| (†) | 237.25  | 246.50   | 246.96  | 257.97   | 255.78  | 252.02  | 254.91  | 262.60   | 265.48  | 262.42  | 256.89   | 252.11  |
| (‡) | -57,400 | +104,700 | +6,400  | +193,100 | -43,900 | -69,100 | +52,500 | +163,400 | +72,100 | -76,400 | -120,600 | -89,500 |

CAL YR 1973.....(†) -40,700

WTR YR 1974.....(†) +135,200

† Elevation, in feet, at 2400 on last day of month.

‡ Change in contents, in acre-feet.

07275000 Yocona River at Enid Dam, near Enid, Miss.

LOCATION.--Lat 34°09'29", long 89°54'14", in SW¼NE¼ sec.2, T.11 S., R.7 W., Chickasaw meridian, Yalobusha County, in gatehouse at Enid Dam, 0.8 mile (1.3 km) upstream from U.S. Highway 51, 2.8 miles (4.5 km) upstream from Illinois Central Railroad bridge, 3.2 miles (5.1 km) northeast of Enid, and 13.5 miles (21.7 km) upstream from mouth.

DRAINAGE AREA.--560 mi<sup>2</sup> (1,450 km<sup>2</sup>).

PERIOD OF RECORD.--July 1928 to September 1973. Prior to October 1951, published as Yocona River near Enid. Monthly discharge only for some periods, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Prior to July 14, 1939, nonrecording gage and July 14, 1939, to Aug. 19, 1940, water-stage recorder at site 150 ft (46 m) downstream from bridge on U.S. Highway 51, 0.8 mile (1.3 km) downstream. Aug. 20, 1940, to July 15, 1951, water-stage recorder at bridge on U.S. Highway 51. July 16, 1951, to May 23, 1952, nonrecording gage at present site. Prior to July 16, 1951, at datum 189.42 ft (57.735 m) above mean sea level; July 16, 1951, to Sept. 30, 1958, at datum 200.00 ft (60.960 m) above mean sea level.

AVERAGE DISCHARGE.--45 years, 837 ft<sup>3</sup>/s (23.70 m<sup>3</sup>/s), 20.30 in/yr (516 mm/yr), unadjusted.

EXTREMES.--Water year 1973: Maximum daily discharge, 4,510 ft<sup>3</sup>/s (127.7 m<sup>3</sup>/s) Apr. 27; minimum discharge, 5.0 ft<sup>3</sup>/s (0.14 m<sup>3</sup>/s) at times.

Period of record: Maximum discharge, 36,300 ft<sup>3</sup>/s (1,030 m<sup>3</sup>/s) Feb. 14, 1948 (gage height, 21.61 ft or 6.587 m, site and datum then in use); maximum discharge since July 1951, when regulation began, 6,060 ft<sup>3</sup>/s (172 m<sup>3</sup>/s) Dec. 28, 1951; no flow at times each year July 1951 to December 1958; minimum discharge prior to construction of Enid Dam, 34 ft<sup>3</sup>/s (0.96 m<sup>3</sup>/s) Sept. 28, 1931, but may have been less during period of estimated record October to December 1931.

REMARKS.--Flow completely regulated by Enid Lake since July 16, 1951 (see sta 07274500).

COOPERATION.--Records furnished by Corps of Engineers and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1281: 1929, 1945. WSP 1511: 1929(M).

NOTE.--Records for 1974 water year will be published in a subsequent report.

## YAZOO RIVER BASIN

07278000 Arkabutla Lake near Arkabutla, Miss.

LOCATION.--Lat 34°45'26", long 90°07'27", in SW¼ sec.2, T.4 S., R.9 W., Chickasaw meridian, De Soto County, in gatehouse of dam on Coldwater River, 4 miles (6 km) north of Arkabutla, and 54.3 miles (87.4 km) upstream from the mouth of Coldwater River.

DRAINAGE AREA.--1,000 mi<sup>2</sup> (2,590 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--August 1941 to current year. Prior to October 1970 published as Arkabutla Reservoir near Arkabutla.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to July 1, 1942, nonrecording gage at same site. Prior to Oct. 1, 1958, at datum 191.18 ft (58.272 m) above mean sea level.

EXTREMES.--Current year: Maximum contents, 376,200 acre-ft (464 hm<sup>3</sup>) June 24 (elevation 233.30 ft or 71.110 m); minimum, 52,000 acre-ft (64.1 hm<sup>3</sup>) Dec. 23 (elevation, 212.68 ft or 64.825 m).  
Period of record: Maximum contents, 702,800 acre-ft (867 hm<sup>3</sup>) Apr. 25, 1973 (elevation, 243.08 ft or 74.091 m); minimum, since initial filling of reservoir to conservation level, 30 acre-ft (37,000 m<sup>3</sup>) at times during 1942-45; minimum elevation, 192.83 ft (58.775 m) Aug. 25, 1943.

REMARKS.--Reservoir is formed by rolled-filled earth dam with concrete spillway and outlet tunnel. Storage began Aug. 14, 1941. Dam completed Aug. 31, 1945. Capacity, 525,300 acre-ft (648 hm<sup>3</sup>) at elevation 238.3 ft (72.63 m), crest of spillway, of which about 493,800 acre-ft (609 hm<sup>3</sup>) is available for flood-control storage and about 31,500 acre-ft (38.8 hm<sup>3</sup>) of storage is maintained in conservation pool for incidental recreational purposes at elevation 209.3 ft (63.79 m), 18 ft (5.5 m) above sill of outlet gages. Water below elevation 191.3 ft (58.31 m) cannot be withdrawn through outlet tunnel. Figures given herein represent total contents.

COOPERATION.--Records furnished by Corps of Engineers and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1007: 1941. WSP 1241: 1947.

Capacity table (elevation, in feet, and contents, in thousands of acre-feet)

|     |      |     |       |     |       |
|-----|------|-----|-------|-----|-------|
| 210 | 35.3 | 220 | 122.3 | 227 | 232.2 |
| 215 | 69.8 | 222 | 149.0 | 230 | 295.0 |
| 218 | 98.9 | 225 | 195.9 | 235 | 423.1 |

## CONTENTS, IN ACRE-FEET, AT 0800, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY | OCT     | NOV      | DEC     | JAN      | FEB     | MAR     | APR     | MAY     | JUN      | JUL     | AUG     | SEP     |
|-----|---------|----------|---------|----------|---------|---------|---------|---------|----------|---------|---------|---------|
| 1   | 97,500  | 59,900   | 181,300 | 103,900  | 232,600 | 156,100 | 72,500  | 115,700 | 212,800  | 350,700 | 268,900 | 184,200 |
| 2   | 97,300  | 60,100   | 183,200 | 97,200   | 224,100 | 150,500 | 71,600  | 114,000 | 243,400  | 347,200 | 265,300 | 183,600 |
| 3   | 96,900  | 60,000   | 182,600 | 90,200   | 215,200 | 158,800 | 69,800  | 112,600 | 251,400  | 344,400 | 261,100 | 183,900 |
| 4   | 96,200  | 60,300   | 181,300 | 90,900   | 205,900 | 139,000 | 68,100  | 110,600 | 254,500  | 342,300 | 258,200 | 181,900 |
| 5   | 96,000  | 61,200   | 178,700 | 88,300   | 190,400 | 133,100 | 67,200  | 110,000 | 259,700  | 340,100 | 254,700 | 178,300 |
| 6   | 95,600  | 61,500   | 173,100 | 83,200   | 188,500 | 127,800 | 67,200  | 108,700 | 261,100  | 338,400 | 251,200 | 175,000 |
| 7   | 95,000  | 61,600   | 164,900 | 79,500   | 181,600 | 127,700 | 67,000  | 106,400 | 260,100  | 334,000 | 247,400 | 171,900 |
| 8   | 104,000 | 61,900   | 157,000 | 77,100   | 174,200 | 126,800 | 66,900  | 103,900 | 265,300  | 330,600 | 243,600 | 170,500 |
| 9   | 105,900 | 62,200   | 147,300 | 75,800   | 167,200 | 123,400 | 67,100  | 101,600 | 306,800  | 326,700 | 240,100 | 171,300 |
| 10  | 103,900 | 62,200   | 139,000 | 90,800   | 154,800 | 120,000 | 67,200  | 99,200  | 327,400  | 323,000 | 236,300 | 168,600 |
| 11  | 100,700 | 61,900   | 133,500 | 186,200  | 152,200 | 116,400 | 67,300  | 96,900  | 348,700  | 319,200 | 232,800 | 165,500 |
| 12  | 98,200  | 61,800   | 127,800 | 271,800  | 145,900 | 112,600 | 72,100  | 94,600  | 353,000  | 315,800 | 229,900 | 162,800 |
| 13  | 94,100  | 61,700   | 122,000 | 296,800  | 139,800 | 109,500 | 100,300 | 92,900  | 353,800  | 311,200 | 226,500 | 161,900 |
| 14  | 91,500  | 61,600   | 116,800 | 308,600  | 134,000 | 105,100 | 114,200 | 91,300  | 355,600  | 307,000 | 225,600 | 159,800 |
| 15  | 88,800  | 61,400   | 111,400 | 317,000  | 135,700 | 100,700 | 120,000 | 92,900  | 356,900  | 302,800 | 224,600 | 156,900 |
| 16  | 85,800  | 60,300   | 104,700 | 319,200  | 140,800 | 95,400  | 121,100 | 131,100 | 361,200  | 298,000 | 222,400 | 153,700 |
| 17  | 82,800  | 58,500   | 97,400  | 313,000  | 148,300 | 90,800  | 120,700 | 151,200 | 361,700  | 293,900 | 219,800 | 150,500 |
| 18  | 80,500  | 56,600   | 89,500  | 305,600  | 150,300 | 85,800  | 119,100 | 156,100 | 361,500  | 292,500 | 216,600 | 147,200 |
| 19  | 88,100  | 57,000   | 81,700  | 296,400  | 151,600 | 81,100  | 116,900 | 158,300 | 371,700  | 292,100 | 214,500 | 144,400 |
| 20  | 76,200  | 54,200   | 74,000  | 288,700  | 156,700 | 76,200  | 114,800 | 160,000 | 371,400  | 288,300 | 211,700 | 141,200 |
| 21  | 74,100  | 56,600   | 66,900  | 284,800  | 155,900 | 74,900  | 112,200 | 161,200 | 371,400  | 284,100 | 207,600 | 138,900 |
| 22  | 72,000  | 60,100   | 59,500  | 278,200  | 170,300 | 80,000  | 113,600 | 162,200 | 371,900  | 280,600 | 204,800 | 136,600 |
| 23  | 69,900  | 60,300   | 52,100  | 269,300  | 179,600 | 81,600  | 123,600 | 177,200 | 374,800  | 278,800 | 200,300 | 134,400 |
| 24  | 68,400  | 59,900   | 52,900  | 261,700  | 179,600 | 81,800  | 128,700 | 187,500 | 376,200  | 279,500 | 196,800 | 131,400 |
| 25  | 66,800  | 58,700   | 62,500  | 258,800  | 176,900 | 81,300  | 128,800 | 190,200 | 373,000  | 277,300 | 193,500 | 129,100 |
| 26  | 65,200  | 57,200   | 75,900  | 252,000  | 173,000 | 80,200  | 127,900 | 192,700 | 369,500  | 276,200 | 190,400 | 126,800 |
| 27  | 63,700  | 74,400   | 95,700  | 252,200  | 167,600 | 79,100  | 126,000 | 193,200 | 365,300  | 279,500 | 187,500 | 124,300 |
| 28  | 62,300  | 126,400  | 105,600 | 249,200  | 161,600 | 77,700  | 123,600 | 194,200 | 362,000  | 279,500 | 184,700 | 121,100 |
| 29  | 60,600  | 165,900  | 108,100 | 252,400  | -----   | 76,600  | 121,100 | 194,900 | 358,900  | 277,500 | 181,600 | 117,500 |
| 30  | 59,300  | 174,900  | 109,600 | 247,600  | -----   | 75,700  | 118,400 | 194,700 | 354,600  | 274,700 | 181,300 | 115,400 |
| 31  | 59,700  | -----    | 108,900 | 240,500  | -----   | 74,100  | -----   | 194,000 | -----    | 271,400 | 182,600 | -----   |
| MAX | 105,900 | 174,900  | 183,200 | 319,200  | 232,600 | 158,800 | 128,800 | 194,900 | 376,200  | 350,700 | 268,900 | 184,200 |
| MIN | 59,300  | 54,200   | 52,100  | 75,800   | 134,000 | 74,100  | 66,900  | 91,300  | 212,800  | 271,400 | 181,300 | 115,400 |
| (†) | 213.75  | 223.99   | 218.60  | 227.10   | 222.62  | 215.37  | 219.54  | 225.35  | 232.37   | 228.85  | 224.27  | 219.27  |
| (‡) | -37,900 | +119,300 | -73,500 | +128,600 | -76,100 | -85,100 | +43,700 | +85,300 | +150,000 | -82,300 | -86,000 | -70,300 |

CAL YR 1973..... (†) -221,300

WTR YR 1974..... (‡) +15,700

† Elevation, in feet, at 2400 on last day of month.

‡ Change in contents, in acre-feet.



07278500 Coldwater River at Arkabutla Dam, near Arkabutla, Miss.

LOCATION.--Lat 34°45'26", long 90°07'27", in SW¼ sec.2, T.4 S., R.9 W., Chickasaw meridian, De Soto County, in gatehouse of Arkabutla Dam, 4 miles (6 km) north of Arkabutla, and 54.3 miles (87.4 km) upstream from mouth.

DRAINAGE AREA.--1,000 mi<sup>2</sup> (2,590 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--May 1937 to September 1941, January 1942 to September 1973. Prior to October 1938 monthly discharge only, published in WSP 1311. Prior to October 1941 published as "at Pratts Bridge near Arkabutla."

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1939, nonrecording gage and Oct. 1, 1939, to Sept. 30, 1941, water-stage recorder at site 1.7 miles (2.7 km) downstream at datum 187.54 ft (57.162 m) above mean sea level. Jan. 1 to June 30, 1942, nonrecording gage 135 ft (41 m) downstream from outlet tunnel of Arkabutla Dam and July 1, 1942, to Dec. 31, 1947, water-stage recorder at site 370 ft (113 m) downstream from outlet tunnel, both at datum 171.28 ft (52.206 m) above mean sea level. Jan. 1, 1948, to Sept. 30, 1958, at present datum 191.18 ft (58.272 m) above mean sea level.

AVERAGE DISCHARGE.--35 years, 1,297 ft<sup>3</sup>/s (36.73 m<sup>3</sup>/s), 17.61 in/yr (447 mm/yr), unadjusted.

EXTREMES.--Water year 1973: Maximum daily discharge, 10,200 ft<sup>3</sup>/s (289 m<sup>3</sup>/s) Apr. 25; minimum discharge, 5.0 ft<sup>3</sup>/s (0.14 m<sup>3</sup>/s) at times.

Period of record: Maximum discharge observed, 30,200 ft<sup>3</sup>/s (855 m<sup>3</sup>/s) Jan. 22, 1938 (gage height, 12.9 ft or 3.93 m, site and datum then in use); no flow at times each year 1942 to 1958; minimum daily discharge, prior to the effect of construction of Arkabutla Lake, 120 ft<sup>3</sup>/s (3.40 m<sup>3</sup>/s) Oct. 15, 1938.  
A stage of 21.3 ft or 6.49 m (from floodmarks) occurred in January 1935 at original site and datum.

REMARKS.--Flow completely regulated by Arkabutla Lake since January 1942 (see sta 07278000).

COOPERATION.--Records furnished by Corps of Engineers and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1241: 1946. WSP 1441: 1938(M).

NOTE.--Records for 1974 water year will be published in a subsequent report.

## YAZOO RIVER BASIN

07280000 Tallahatchie River near Lambert, Miss.

LOCATION.--Lat 34°10'50", long 90°12'55", in NE¼SW¼ sec.29, T.27 N., R.1 E., Choctaw meridian, Quitman County, near center of span on downstream side of highway bridge, 0.2 miles (0.3 km) downstream from confluence of Old Little Tallahatchie River and Coldwater River, 3.5 miles (5.6 km) southeast of Lambert, and 26.2 miles (42.2 km) upstream from the Panola-Quitman Floodway.

DRAINAGE AREA.--1,980 mi<sup>2</sup> (5.130 km<sup>2</sup>), approximately (does not include 2,600 mi<sup>2</sup> or 6,730 km<sup>2</sup>) of upper Little Tallahatchie (formerly Tallahatchie) and Yocona Rivers, the entire flow of which is diverted 24.5 miles (39.4 km) upstream through Panola-Quitman Floodway.

PERIOD OF RECORD.--October 1935 to September 1973. Prior to October 1938, monthly discharge only, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 123.83 ft (37.743 m) above mean sea level (levels by Corps of Engineers). Prior to Sept. 5, 1946, nonrecording gage at same site and datum. Since Sept. 11, 1946, auxiliary water-stage recorder 5.8 miles (9.3 km) downstream from base gage at datum 2.66 ft (0.811 m) higher. Dec. 9, 1938, to Sept. 10, 1946, auxiliary nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--38 years, 2,623 ft<sup>3</sup>/s (74.28 m<sup>3</sup>/s), 17.99 in/yr (457 mm/yr).

EXTREMES.--Water year 1973: Maximum daily discharge, 15,100 ft<sup>3</sup>/s (428 m<sup>3</sup>/s) May 3; maximum gage height, 33.04 ft (10.071 m); minimum daily discharge, 768 ft<sup>3</sup>/s (21.7 m<sup>3</sup>/s) Sept. 30.

Period of record: Maximum discharge observed, 32,800 ft<sup>3</sup>/s (929 m<sup>3</sup>/s) Jan. 30, 1937 (gage height, 35.54 ft or 10.833 m); minimum, 59 ft<sup>3</sup>/s (1.67 m<sup>3</sup>/s) Oct. 27-29, 1942; minimum gage height, 5.85 ft (1.783 m) Oct. 16-21, 1938.

A stage of 36.8 ft or 11.22 m (from floodmarks) occurred in January 1932 (probably affected by levee breaks above).

REMARKS.--Flow partly regulated by Arkabutla Lake on Coldwater River (see sta 07278000). Entire flow of Little Tallahatchie River and Yocona River diverted around the station through the Panola-Quitman Floodway. Records of chemical analyses for the water year 1970 are published in reports of the Geological Survey.

COOPERATION.--Twenty-nine discharge measurements and records of daily discharge furnished by Corps of Engineers; records reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1281: 1939.

NOTE.--Records for 1974 water year will be published in a subsequent report.

## 07281000 Tallahatchie River at Swan Lake, Miss.

LOCATION.--Lat 33°51'35", long 90°16'35", on line between secs.14 and 15, T.23 N., R.1 W., Choctaw meridian, Tallahatchie County, on downstream side of left pier of highway bridge, 1 mile (2 km) southeast of Swan Lake, 3 miles (5 km) downstream from Cassidy Bayou, and 18 miles (29 km) downstream from point where Panola-Quitman floodway empties into Tallahatchie River.

DRAINAGE AREA.--5,130 mi<sup>2</sup> (13,290 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--November 1929 to September 1938 (except low-water periods). October 1938 to September 1973. Monthly discharge only for some periods, published in WSP 1311. Gage-height records collected in same vicinity since November 1904 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 113.38 ft (34.558 m) above mean sea level. Prior to Oct. 11, 1934, nonrecording gage at datum 2.00 ft (0.610 m) higher; Oct. 11, 1934, to Sept. 18, 1944, nonrecording gage at present datum; and Sept. 19, 1944, to Dec. 31, 1958, water-stage recorder at present datum; all at site 1.3 miles (2.1 km) upstream. Oct. 4, 1944, to Dec. 31, 1958, auxiliary water-stage recorder at site 2.8 miles (4.5 km) downstream from former base gage at datum 0.95 ft (0.290 m) lower. Nov. 22, 1939, to Oct. 3, 1944, auxiliary nonrecording gage at site 3.8 miles (6.1 km) downstream from former base gage at same datum.

AVERAGE DISCHARGE.--35 years (1938-73), 7,289 ft<sup>3</sup>/s (206.4 m<sup>3</sup>/s), 19.30 in/yr (490 mm/yr), unadjusted.

EXTREMES.--Water year 1973: Maximum daily discharge, 44,900 ft<sup>3</sup>/s (1,270 m<sup>3</sup>/s) Mar. 17-18; maximum gage height, 31.59 ft (9.630 m) Mar. 17; minimum daily, 2,950 ft<sup>3</sup>/s (83.5 m<sup>3</sup>/s) Oct. 12.  
Period of record: Maximum discharge observed, 49,200 ft<sup>3</sup>/s (1,390 m<sup>3</sup>/s) Apr. 9, 1933; maximum gage height, 37.0 ft (11.278 m) Jan. 15, 1932, present datum (affected by break in levee); minimum daily discharge determined, 213 ft<sup>3</sup>/s (6.03 m<sup>3</sup>/s) Oct. 27, 1942; minimum gage height, 1.38 ft (0.421 m) Oct. 26-28, 1942.

REMARKS.--Flow partly regulated by Sardis Lake on Little Tallahatchie River (see sta 07272000), Enid Lake on Yocona River (see sta 07274500), and Arkabutla Lake on Coldwater River (see sta 07278000).

COOPERATION.--Twenty-one discharge measurements and records of daily discharge furnished by Corps of Engineers; records reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1711: 1932(M).

NOTE.--Records for 1974 water year will be published in a subsequent report.

## YAZOO RIVER BASIN

07282000 Yalobusha River at Calhoun City, Miss.

LOCATION.--Lat 33°50'20", long 89°18'55", in SE¼SE¼ sec.23, T.23 N., R.9 E., Choctaw meridian, Calhoun County, on left bank of Yalobusha River Canal at downstream side of bridge on State Highway 9, 0.8 mile (1.3 km) upstream from Topashaw Creek, 1.2 miles (1.9 km) south of Calhoun City, 1.5 miles (2.4 km) upstream from old channel, and 4.8 miles (7.7 km) upstream from Topashaw Creek Canal. Records include flow in Topashaw Creek Canal and all supplemental channels.

DRAINAGE AREA.--305 mi<sup>2</sup> (790 km<sup>2</sup>), combined drainage area of all channels.

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

GAGE.--Water-stage recorder, and nonrecording gage read twice daily. Datum of gage is 226.06 ft (68.903 m) above mean sea level (levels by Corps of Engineers). Prior to Jan. 1, 1972, datum of gage was 10.00 ft (3.048 m) higher. Prior to Nov. 15, 1950, nonrecording gage at site 75 ft (23 m) downstream at same datum. Water-stage recorder and nonrecording gage read twice daily on Topashaw Creek Canal, 2.5 miles (4.0 km) southwest of base gage. Prior to Aug. 16, 1963, nonrecording gage and crest-stage gage on Topashaw Creek Canal.

AVERAGE DISCHARGE.--24 years, 377 ft<sup>3</sup>/s (10.68 m<sup>3</sup>/s), 16.79 in/yr (426 mm/yr).

EXTREMES.--Current year: Maximum discharge, 30,100 ft<sup>3</sup>/s (852 m<sup>3</sup>/s) Nov. 27; maximum gage height at river gage, 22.15 ft (6.751 m) May 15; minimum daily discharge, 3.7 ft<sup>3</sup>/s (0.105 m<sup>3</sup>/s) Oct. 13.  
Period of record: Maximum discharge, 52,100 ft<sup>3</sup>/s (1,480 m<sup>3</sup>/s) Mar. 16, 1973; maximum gage height at river gage, 25.22 ft (7.687 m) Mar. 29, 1951 (present datum); no flow at times.

REMARKS.--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.

REVISIONS (WATER YEARS).--WRD Miss. 1970: 1969 (M).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT   | NOV      | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL   | AUG     | SEP   |
|-------|-------|----------|--------|--------|--------|--------|--------|--------|--------|-------|---------|-------|
| 1     | 4.2   | 21       | 348    | 175    | 273    | 138    | 1,080  | 69     | 1,510  | 28    | 18      | 870   |
| 2     | 31    | 16       | 198    | 59     | 4,340  | 126    | 6,170  | 74     | 482    | 24    | 16      | 680   |
| 3     | 75    | 9.9      | 147    | 4,320  | 4,560  | 119    | 1,530  | 68     | 223    | 21    | 24      | 343   |
| 4     | 38    | 169      | 874    | 3,130  | 1,530  | 110    | 824    | 104    | 130    | 31    | 40      | 165   |
| 5     | 16    | 350      | 454    | 1,030  | 655    | 99     | 329    | 135    | 225    | 36    | 17      | 79    |
| 6     | 9.1   | 66       | 225    | 981    | 485    | 95     | 236    | 79     | 455    | 41    | 15      | 43    |
| 7     | 7.0   | 48       | 127    | 1,330  | 1,460  | 86     | 191    | 55     | 1,680  | 310   | 14      | 33    |
| 8     | 5.8   | 790      | 89     | 566    | 676    | 79     | 933    | 45     | 4,440  | 382   | 24      | 36    |
| 9     | 5.7   | 354      | 71     | 805    | 339    | 73     | 596    | 41     | 1,090  | 74    | 23      | 49    |
| 10    | 5.8   | 121      | 59     | 1,300  | 242    | 70     | 313    | 37     | 446    | 172   | 11      | 52    |
| 11    | 5.6   | 64       | 51     | 8,800  | 187    | 85     | 191    | 76     | 185    | 63    | 9.7     | 42    |
| 12    | 4.0   | 29       | 49     | 2,770  | 160    | 241    | 3,470  | 299    | 2,070  | 41    | 8.9     | 47    |
| 13    | 3.7   | 19       | 47     | 938    | 146    | 139    | 5,660  | 99     | 3,240  | 35    | 63      | 80    |
| 14    | 11    | 14       | 43     | 2,000  | 146    | 109    | 1,880  | 60     | 906    | 29    | 43      | 92    |
| 15    | 14    | 14       | 37     | 3,220  | 721    | 84     | 706    | 9,340  | 322    | 27    | 24      | 114   |
| 16    | 12    | 12       | 34     | 1,180  | 2,440  | 76     | 282    | 6,040  | 180    | 25    | 22      | 54    |
| 17    | 9.6   | 10       | 30     | 586    | 987    | 74     | 194    | 1,600  | 101    | 24    | 26      | 36    |
| 18    | 7.2   | 8.8      | 27     | 310    | 465    | 73     | 152    | 415    | 805    | 21    | 19      | 30    |
| 19    | 6.3   | 7.1      | 28     | 254    | 1,800  | 100    | 124    | 141    | 536    | 40    | 15      | 26    |
| 20    | 5.7   | 20       | 448    | 2,400  | 673    | 447    | 104    | 97     | 155    | 73    | 10      | 23    |
| 21    | 5.4   | 1,100    | 218    | 1,710  | 1,380  | 3,210  | 91     | 83     | 87     | 35    | 8.6     | 20    |
| 22    | 5.1   | 281      | 113    | 693    | 2,830  | 1,070  | 3,010  | 530    | 63     | 28    | 7.1     | 15    |
| 23    | 5.0   | 289      | 83     | 4,150  | 856    | 378    | 2,720  | 1,920  | 6,530  | 279   | 6.3     | 12    |
| 24    | 5.3   | 340      | 1,550  | 9,030  | 409    | 214    | 780    | 550    | 1,420  | 161   | 5.3     | 13    |
| 25    | 4.2   | 397      | 12,000 | 5,330  | 237    | 186    | 276    | 181    | 278    | 41    | 4.6     | 17    |
| 26    | 4.1   | 815      | 7,250  | 3,330  | 189    | 167    | 157    | 3,090  | 130    | 89    | 4.0     | 27    |
| 27    | 5.9   | 15,200   | 3,060  | 1,730  | 168    | 150    | 126    | 1,640  | 86     | 250   | 4.3     | 26    |
| 28    | 23    | 6,710    | 908    | 6,960  | 151    | 145    | 100    | 402    | 60     | 77    | 11      | 21    |
| 29    | 18    | 1,890    | 465    | 3,550  | -----  | 5,680  | 82     | 146    | 45     | 44    | 191     | 15    |
| 30    | 10    | 783      | 209    | 1,140  | -----  | 1,430  | 68     | 100    | 36     | 29    | 425     | 13    |
| 31    | 14    | -----    | 219    | 541    | -----  | 423    | -----  | 78     | -----  | 22    | 864     | ----- |
| TOTAL | 376.7 | 29,947.8 | 29,460 | 74,402 | 28,504 | 15,476 | 32,375 | 27,594 | 27,916 | 2,552 | 1,973.8 | 3,073 |
| MEAN  | 12.2  | 998      | 950    | 2,400  | 1,018  | 499    | 1,079  | 890    | 931    | 82.3  | 63.7    | 102   |
| MAX   | 75    | 15,200   | 12,000 | 9,030  | 4,560  | 5,680  | 6,170  | 9,340  | 6,530  | 382   | 864     | 870   |
| MIN   | 3.7   | 7.1      | 27     | 55     | 146    | 70     | 68     | 37     | 36     | 21    | 4.0     | 12    |
| CFSM  | .04   | 3.27     | 3.11   | 7.87   | 3.34   | 1.64   | 3.54   | 2.92   | 3.05   | .27   | .21     | .33   |
| IN.   | .05   | 3.65     | 3.59   | 9.07   | 3.48   | 1.89   | 3.95   | 3.37   | 3.40   | .31   | .24     | .37   |

CAL YR 1973 TOTAL 304,797.3 MEAN 835 MAX 40,300 MIN 2.4 CFSM 2.74 IN 37.18  
WTR YR 1974 TOTAL 273,650.3 MEAN 750 MAX 15,200 MIN 3.7 CFSM 2.46 IN 33.38

## PEAK DISCHARGE (BASE, 11,000 CFS)

| DATE  | TIME | G. H. | DISCHARGE | DATE  | TIME | G. H. | DISCHARGE |
|-------|------|-------|-----------|-------|------|-------|-----------|
| 11-27 | 1300 | 21.71 | 30,100    | 03-29 | 0500 | 14.54 | 12,600    |
| 12-25 | 0700 | 21.87 | 18,400    | 04-02 | 0100 | 17.89 | 13,600    |
| 01-11 | 0700 | 19.96 | 16,400    | 04-12 | 2200 | 19.21 | 13,200    |
| 01-24 | 1700 | 20.68 | 17,500    | 05-15 | 1600 | 22.15 | 23,200    |
| 01-28 | 1100 | 21.02 | 14,400    | 06-23 | 0700 | 18.94 | 12,200    |

07283000 Skuna River at Bruce, Miss.

LOCATION.--Lat 33°58'25", long 89°20'50", in SW¼SW¼ sec.6, T.13 S., R.1 W., Chickasaw meridian, Calhoun County, near right bank on downstream side of bridge on State Highway 9, 1 mile (1.6 km) south of Bruce.

DRAINAGE AREA.--254 mi<sup>2</sup> (658 km<sup>2</sup>).

PERIOD OF RECORD.--October 1947 to current year. Prior to March 1948 monthly discharge only, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 228.75 ft (69.723 m) above mean sea level (levels by Corps of Engineers). Prior to Jan. 1, 1972, at datum 10.00 ft (3.048 m) higher. Oct. 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.

AVERAGE DISCHARGE.--27 years, 363 ft<sup>3</sup>/s (10.28 m<sup>3</sup>/s), 19.41 in/yr (493 mm/yr).

EXTREMES.--Current year: Maximum discharge, 21,000 ft<sup>3</sup>/s (595 m<sup>3</sup>/s) May 15 (gage height, 24.20 ft or 7.376 m); minimum daily, 12 ft<sup>3</sup>/s (0.34 m<sup>3</sup>/s) Oct. 6, 21-23.  
Period of record: Maximum discharge, 61,400 ft<sup>3</sup>/s (1,740 m<sup>3</sup>/s) Mar. 21, 1955 (gage height, 34.11 ft or 10.397 m, present datum), from rating curve extended above 19,000 ft<sup>3</sup>/s (538 m<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 (0.025 m<sup>3</sup>/s) Aug. 18, 1954.

REMARKS.--Records good except those for periods of doubtful or no gage-height record, which are poor.

REVISIONS (WATER YEARS).--WSP 1920: 1958(P), 1959-60(M).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT   | NOV    | DEC   | JAN    | FEB    | MAR   | APR    | MAY    | JUN    | JUL   | AUG   | SEP   |
|-------|-------|--------|-------|--------|--------|-------|--------|--------|--------|-------|-------|-------|
| 1     | 63    | 22     | 150   | 71     | 209    | 97    | 204    | 51     | 5,570  | 41    | 22    | 964   |
| 2     | 78    | 24     | 117   | 68     | 8,730  | 96    | 2,810  | 56     | 1,040  | 38    | 20    | 695   |
| 3     | 21    | 23     | 132   | 3,000  | 230    | 45    | 467    | 51     | 274    | 36    | 29    | 1,250 |
| 4     | 19    | 52     | 812   | 2,000  | 227    | 95    | 264    | 83     | 157    | 33    | 58    | 202   |
| 5     | 13    | 443    | 219   | 500    | 219    | 87    | 153    | 272    | 172    | 33    | 24    | 85    |
| 6     | 12    | 86     | 141   | 350    | 296    | 87    | 110    | 91     | 236    | 31    | 18    | 61    |
| 7     | 44    | 44     | 102   | 250    | 260    | 81    | 96     | 58     | 471    | 37    | 16    | 49    |
| 8     | 165   | 2,140  | 87    | 200    | 230    | 79    | 485    | 49     | 4,740  | 56    | 16    | 47    |
| 9     | 125   | 603    | 78    | 288    | 200    | 72    | 106    | 47     | 805    | 39    | 18    | 234   |
| 10    | 135   | 125    | 70    | 2,480  | 180    | 70    | 111    | 43     | 348    | 33    | 29    | 100   |
| 11    | 36    | 62     | 63    | 9,000  | 160    | 69    | 87     | 45     | 200    | 33    | 25    | 62    |
| 12    | 26    | 48     | 61    | 3,000  | 145    | 42    | 1,390  | 192    | 2,970  | 32    | 27    | 61    |
| 13    | 22    | 42     | 61    | 500    | 133    | 78    | 3,390  | 83     | 2,710  | 27    | 960   | 73    |
| 14    | 30    | 37     | 56    | 350    | 148    | 67    | 612    | 49     | 434    | 24    | 835   | 366   |
| 15    | 24    | 33     | 49    | 1,010  | 196    | 64    | 275    | 10,300 | 220    | 23    | 78    | 289   |
| 16    | 27    | 29     | 44    | 392    | 900    | 64    | 190    | 5,770  | 214    | 22    | 130   | 83    |
| 17    | 22    | 33     | 40    | 424    | 700    | 63    | 145    | 608    | 125    | 37    | 158   | 47    |
| 18    | 20    | 32     | 39    | 326    | 550    | 62    | 120    | 218    | 999    | 24    | 40    | 38    |
| 19    | 17    | 31     | 44    | 268    | 750    | 65    | 105    | 135    | 1,000  | 33    | 26    | 34    |
| 20    | 14    | 69     | 195   | 1,920  | 650    | 100   | 88     | 101    | 180    | 28    | 21    | 28    |
| 21    | 12    | 2,280  | 171   | 1,200  | 1,200  | 2,200 | 77     | 90     | 96     | 26    | 18    | 25    |
| 22    | 12    | 324    | 91    | 400    | 1,600  | 461   | 1,200  | 2,670  | 71     | 22    | 17    | 22    |
| 23    | 12    | 762    | 77    | 300    | 600    | 206   | 400    | 6,280  | 2,630  | 123   | 17    | 22    |
| 24    | 13    | 876    | 663   | 3,000  | 300    | 129   | 250    | 691    | 324    | 353   | 15    | 22    |
| 25    | 14    | 1,850  | 3,660 | 4,000  | 200    | 111   | 150    | 218    | 120    | 57    | 15    | 22    |
| 26    | 13    | 578    | 807   | 600    | 150    | 110   | 120    | 1,490  | 83     | 510   | 14    | 29    |
| 27    | 14    | 12,200 | 305   | 474    | 130    | 99    | 90     | 843    | 67     | 964   | 13    | 36    |
| 28    | 21    | 741    | 209   | 3,740  | 110    | 94    | 70     | 200    | 58     | 97    | 16    | 39    |
| 29    | 16    | 248    | 250   | 1,200  | -----  | 1,090 | 60     | 111    | 49     | 47    | 114   | 28    |
| 30    | 19    | 185    | 143   | 600    | -----  | 392   | 54     | 86     | 46     | 31    | 242   | 22    |
| 31    | 19    | -----  | 89    | 300    | -----  | 162   | -----  | 78     | -----  | 25    | 710   | ----- |
| TOTAL | 1,082 | 24,022 | 9,026 | 42,211 | 19,403 | 6,627 | 13,769 | 31,059 | 26,409 | 2,915 | 3,741 | 5,035 |
| MEAN  | 34.9  | 801    | 291   | 1,362  | 693    | 214   | 459    | 1,002  | 880    | 94.0  | 121   | 168   |
| MAX   | 165   | 12,200 | 3,660 | 9,000  | 8,730  | 2,200 | 3,390  | 10,300 | 5,570  | 964   | 960   | 1,250 |
| MIN   | 12    | 22     | 39    | 68     | 110    | 62    | 54     | 43     | 46     | 22    | 13    | 22    |
| CFSM  | .14   | 3.15   | 1.15  | 5.36   | 2.73   | .84   | 1.81   | 3.94   | 3.46   | .37   | .48   | .66   |
| IN.   | .16   | 3.52   | 1.32  | 6.18   | 2.84   | .97   | 2.02   | 4.55   | 3.87   | .43   | .55   | .74   |

CAL YR 1973 TOTAL 253,985.0 MEAN 696 MAX 30,300 MIN 7.2 CFSM 2.74 IN 37.20  
WTR YR 1974 TOTAL 185,299.0 MEAN 508 MAX 12,200 MIN 12 CFSM 2.00 IN 27.14

## PEAK DISCHARGE (BASE, 5,000 CFS)

| DATE  | TIME    | G. H.   | DISCHARGE | DATE  | TIME | G. H. | DISCHARGE |
|-------|---------|---------|-----------|-------|------|-------|-----------|
| 11-27 | 1930    | 23.77   | 19,900    | 05-15 | 1645 | 24.20 | 21,000    |
| 12-25 | 1630    | 20.48   | 12,900    | 05-23 | 0215 | 20.45 | 12,800    |
| 01-11 | Unknown | Unknown | Unknown   | 06-01 | 0945 | 17.48 | 8,090     |
| 01-28 | 1430    | 20.01   | 12,000    | 06-08 | 0430 | 17.31 | 7,850     |
| 02-02 | 1545    | 22.18   | 16,300    | 06-12 | 1945 | 17.14 | 7,620     |
| 04-02 | 0500    | 15.03   | 5,130     | 06-23 | 0715 | 15.05 | 5,160     |
| 04-13 | 0030    | 16.83   | 7,210     |       |      |       |           |

NOTE.--Doubtful or no gage-height record Oct. 1 to Nov. 2, Jan. 3 to Mar. 20.



## YAZOO RIVER BASIN

07284500 Grenada Lake near Grenada, Miss.

LOCATION.--Lat 33°48'31", long 89°46'14", in NE¼NE¼ sec.4, T.22 N., R.5 E., Choctaw meridian, Grenada County, at gatehouse of dam on Yalobusha River, 2.2 miles (3.5 km) upstream from Batupan Creek, 3 miles (5 km) northeast of Grenada, and 63.6 miles (102 km) upstream from mouth of Yalobusha River.

DRAINAGE AREA.--1,320 mi<sup>2</sup> (3,420 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--July 1953 to current year. Prior to October 1970, published as Grenada Reservoir near Grenada.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Dec. 19, 1953, nonrecording gage at same site. Prior to Oct. 1, 1958, at datum 160.00 ft (48.768 m) above mean sea level.

EXTREMES.--Current year: Maximum contents, 1,183,700 acre-ft (1,460 hm<sup>3</sup>) June 24 (elevation 228.52 ft or 69.653 m); minimum, 261,900 acre-ft (323 hm<sup>3</sup>) Nov. 26 (elevation, 204.89 ft or 62.450 m).  
Period of record: Maximum contents, 1,575,600 acre-ft (1,940 hm<sup>3</sup>) Apr. 28, 1973 (elevation, 234.48 ft or 71.470 m); minimum since initial filling of reservoir to conservation level, 66,900 acre-ft (82.5 hm<sup>3</sup>) Dec. 4, 1962 (elevation, 190.95 ft or 58.202 m).

REMARKS.--Reservoir is formed by a rolled-fill earth dam with concrete spillway and outlet tunnel. Storage began June 30, 1953. Capacity, 1,337,400 acre-ft (1,650 hm<sup>3</sup>) at elevation 231.0 ft (70.41 m), crest of spillway, of which about 1,251,700 acre-ft (1,540 hm<sup>3</sup>) is available for flood-control storage and about 85,700 acre-ft (106 hm<sup>3</sup>) of storage is maintained in conservation pool for incidental recreational purposes at elevation 193.0 ft (58.83 m), 24 ft (7.3 m) above sill of outlet gates. Water below 169.0 ft (51.51 m) cannot be withdrawn through outlet tunnel. Figures given herein represent total contents.

COOPERATION.--Records furnished by Corps of Engineers and reviewed by Geological Survey.

Capacity table (elevation, in feet, and contents, in thousands of acre-feet)

|     |       |     |       |     |         |
|-----|-------|-----|-------|-----|---------|
| 190 | 59.0  | 205 | 264.3 | 220 | 747.3   |
| 195 | 106.5 | 210 | 389.1 | 225 | 986.6   |
| 200 | 171.8 | 215 | 549.3 | 230 | 1,273.8 |

CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 0800, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY | OCT    | NOV    | DEC    | JAN     | FEB     | MAR    | APR    | MAY     | JUN     | JUL     | AUG    | SEP    |
|-----|--------|--------|--------|---------|---------|--------|--------|---------|---------|---------|--------|--------|
| 1   | 611.7  | 376.9  | 409.3  | 482.4   | 998.3   | 920.0  | 691.0  | 775.1   | 1,012.7 | 1,133.2 | 892.8  | 668.9  |
| 2   | 604.9  | 368.3  | 412.8  | 477.1   | 1,001.0 | 911.6  | 704.3  | 772.4   | 1,036.8 | 1,124.1 | 883.0  | 678.3  |
| 3   | 597.6  | 360.2  | 413.7  | 478.1   | 1,050.6 | 901.7  | 721.2  | 772.4   | 1,041.2 | 1,115.5 | 873.3  | 682.8  |
| 4   | 590.8  | 352.5  | 414.6  | 518.0   | 1,066.6 | 892.8  | 720.8  | 772.0   | 1,042.3 | 1,106.9 | 864.7  | 682.4  |
| 5   | 582.6  | 357.5  | 411.9  | 548.9   | 1,067.1 | 883.0  | 713.2  | 774.7   | 1,042.9 | 1,099.5 | 856.6  | 679.1  |
| 6   | 574.5  | 355.1  | 409.6  | 559.8   | 1,061.6 | 873.8  | 704.7  | 775.1   | 1,046.7 | 1,091.6 | 848.0  | 672.2  |
| 7   | 566.4  | 347.7  | 405.2  | 565.3   | 1,057.2 | 863.8  | 694.3  | 774.7   | 1,049.5 | 1,083.2 | 839.0  | 659.6  |
| 8   | 560.2  | 345.1  | 399.2  | 567.9   | 1,050.6 | 854.7  | 686.1  | 772.9   | 1,071.5 | 1,077.6 | 830.2  | 656.4  |
| 9   | 553.7  | 348.5  | 392.0  | 566.8   | 1,044.0 | 844.2  | 680.0  | 771.6   | 1,065.5 | 1,072.7 | 821.4  | 656.0  |
| 10  | 546.8  | 345.6  | 384.3  | 569.3   | 1,035.2 | 833.9  | 677.1  | 770.7   | 1,100.6 | 1,066.0 | 812.2  | 647.7  |
| 11  | 539.4  | 339.9  | 378.2  | 619.4   | 1,027.1 | 824.6  | 674.6  | 770.7   | 1,104.6 | 1,056.6 | 803.0  | 639.8  |
| 12  | 531.7  | 332.7  | 371.6  | 683.2   | 1,016.4 | 815.9  | 677.9  | 772.0   | 1,105.2 | 1,051.1 | 795.7  | 631.9  |
| 13  | 522.6  | 325.4  | 365.1  | 704.3   | 1,004.7 | 807.1  | 699.3  | 772.0   | 1,126.9 | 1,042.3 | 789.3  | 624.4  |
| 14  | 518.0  | 317.4  | 358.8  | 713.6   | 994.6   | 796.6  | 725.9  | 770.7   | 1,139.6 | 1,033.1 | 782.6  | 617.4  |
| 15  | 510.1  | 309.7  | 351.9  | 733.1   | 988.7   | 787.1  | 736.5  | 771.1   | 1,141.9 | 1,022.9 | 776.0  | 610.6  |
| 16  | 504.4  | 301.8  | 343.6  | 751.7   | 982.0   | 775.1  | 740.0  | 854.2   | 1,140.7 | 1,014.3 | 769.3  | 604.5  |
| 17  | 497.0  | 294.3  | 337.3  | 759.2   | 982.4   | 764.9  | 741.7  | 896.7   | 1,137.3 | 1,004.7 | 761.8  | 596.1  |
| 18  | 488.3  | 286.1  | 329.6  | 762.7   | 977.2   | 755.7  | 741.3  | 906.1   | 1,134.4 | 994.6   | 753.5  | 588.2  |
| 19  | 480.0  | 278.0  | 320.6  | 761.8   | 971.5   | 745.1  | 740.8  | 909.6   | 1,143.0 | 986.6   | 746.0  | 580.3  |
| 20  | 472.3  | 270.9  | 313.4  | 757.4   | 975.7   | 740.4  | 740.8  | 909.1   | 1,143.6 | 977.2   | 739.5  | 572.3  |
| 21  | 464.6  | 270.3  | 304.2  | 757.4   | 971.0   | 735.7  | 739.1  | 910.1   | 1,141.3 | 971.0   | 731.9  | 564.2  |
| 22  | 457.5  | 272.0  | 296.4  | 757.0   | 967.4   | 738.7  | 741.7  | 910.6   | 1,137.6 | 962.2   | 723.3  | 556.2  |
| 23  | 449.6  | 271.1  | 287.3  | 712.4   | 973.6   | 734.8  | 759.6  | 946.3   | 1,155.3 | 956.0   | 714.0  | 548.2  |
| 24  | 441.5  | 267.4  | 280.3  | 784.0   | 965.8   | 729.3  | 772.9  | 966.9   | 1,180.7 | 950.4   | 704.7  | 538.0  |
| 25  | 432.9  | 266.5  | 311.7  | 859.0   | 958.6   | 720.8  | 776.0  | 971.0   | 1,181.9 | 942.2   | 696.8  | 529.2  |
| 26  | 424.4  | 263.9  | 386.8  | 909.6   | 948.8   | 711.0  | 777.3  | 981.9   | 1,177.8 | 937.0   | 688.6  | 525.4  |
| 27  | 415.1  | 269.2  | 440.9  | 928.5   | 939.1   | 700.5  | 776.0  | 994.0   | 1,168.3 | 934.0   | 679.5  | 512.8  |
| 28  | 408.1  | 317.6  | 467.8  | 945.3   | 929.5   | 691.0  | 775.5  | 1,001.5 | 1,160.0 | 928.0   | 671.0  | 504.0  |
| 29  | 398.9  | 382.4  | 473.6  | 987.7   | -----   | 692.3  | 775.1  | 1,002.6 | 1,151.1 | 919.0   | 664.4  | 494.3  |
| 30  | 390.8  | 402.3  | 480.0  | 1,000.4 | -----   | 698.8  | 773.8  | 1,001.5 | 1,141.4 | 911.1   | 662.0  | 485.3  |
| 31  | 362.9  | -----  | 482.4  | 1,001.0 | -----   | 697.6  | -----  | 1,001.0 | -----   | 901.7   | 664.0  | -----  |
| MAX | 611.7  | 402.3  | 482.4  | 1,001.0 | 1,067.1 | 920.0  | 777.3  | 1,002.6 | 1,181.9 | 1,133.2 | 892.8  | 682.8  |
| MIN | 362.9  | 263.9  | 280.3  | 212.4   | 929.5   | 691.0  | 674.6  | 770.7   | 1,012.7 | 901.7   | 662.0  | 485.3  |
| (+) | 209.62 | 210.62 | 213.08 | 225.24  | 223.78  | 218.70 | 220.60 | 225.39  | 227.71  | 223.21  | 218.09 | 213.97 |
| (-) | -235.5 | +285.0 | +764.0 | +516.0  | -754.0  | -231.7 | +81.5  | +233.6  | +128.7  | -240.4  | -228.4 | -154.1 |

CAL YR 1973..... (+) +77.9  
WTR YR 1974..... (+) -100.8

(+) Elevation, in feet, at 2400 on last day of month.  
(-) Change in contents, in acre-feet.

07285000 Yalobusha River at Grenada Dam, near Grenada, Miss.

LOCATION.--Lat 33°48'31", long 89°46'14", in NE¼NE¼ sec.4, T.22 N., R.5 E., Choctaw meridian, Grenada County, in gatehouse of Grenada Dam, 2.2 miles (3.5 km) upstream from Batupan Creek, 3 miles (5 km) northeast of Grenada, and 63.6 miles (102.3 km) upstream from mouth.

DRAINAGE AREA.--1,320 mi<sup>2</sup> (3,420 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--July 1953 to September 1973.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Dec. 19, 1953, nonrecording gage at same site. Prior to Oct. 1, 1958, at datum 160.00 ft (48.768 m) above mean sea level.

AVERAGE DISCHARGE.--20 years, 1,757 ft<sup>3</sup>/s (49.76 m<sup>3</sup>/s), 18.08 in/yr (459 mm/yr), unadjusted.

EXTREMES.--Water year 1973: Maximum daily discharge, 4,900 ft<sup>3</sup>/s (139 m<sup>3</sup>/s) Apr. 27; minimum daily, 5.0 ft<sup>3</sup>/s (0.14 m<sup>3</sup>/s) at times.

Period of record: Maximum discharge, 4,900 ft<sup>3</sup>/s (139 m<sup>3</sup>/s) Apr. 27, 1973; no flow at times prior to Jan. 1, 1959.

REMARKS.--Flow completely regulated by Grenada Lake (see sta 07284500).

COOPERATION.--Records furnished by Corps of Engineers and reviewed by Geological Survey.

NOTE.--Records for 1974 water year will be published in a subsequent report.

## YAZOO RIVER BASIN

07285900 Askalmore Creek at Retention Dam near Cascilla, Miss.

LOCATION.--Lat 33°55'01", long 89°59'48", in NE¼SE¼ sec.29, T.24 N., R.3 E., Choctaw meridian, Tallahatchie County, near outlet structure of retention dam on Askalmore Creek, 1.0 mile (1.6 km) upstream from Powers Creek, 4.2 miles (6.8 km) north of Cascilla, and 7.2 miles (11.6 km) southeast of Charleston.

DRAINAGE AREA.--10.5 mi<sup>2</sup> (27.2 km<sup>2</sup>).

PERIOD OF RECORD.--October 1966 to June 1974 (discontinued).

GAGE.--Water-stage recorder and concrete drop inlet open on two sides located in pool. Datum of gage is 230.00 ft (70.104 m) above mean sea level (levels by Soil Conservation Service).

AVERAGE DISCHARGE.--7 years, 16.0 ft<sup>3</sup>/s (0.453 m<sup>3</sup>/s), 20.64 in/yr (524 mm/yr).

EXTREMES.--October 1973 to June 1974: Maximum outflow during period, 134 ft<sup>3</sup>/s (3.79 m<sup>3</sup>/s) May 15 (gage height, 23.19 ft or 7.068 m); minimum daily outflow, 1.1 ft<sup>3</sup>/s (0.031 m<sup>3</sup>/s) Oct. 4-9, 12.  
Period of record: Maximum outflow, 620 ft<sup>3</sup>/s (17.6 m<sup>3</sup>/s) Mar. 16, 1973 (gage height, 27.75 ft or 8.458 m); from rating curve extended above 140 ft<sup>3</sup>/s (3.96 m<sup>3</sup>/s) on basis of computation of flow through emergency spillway; minimum daily outflow, 0.20 ft<sup>3</sup>/s (0.006 m<sup>3</sup>/s) July 16-22, 1971.

REMARKS.--Records fair. Reservoir constructed by Soil Conservation Service for flood retention. Records of daily discharge are outflow from reservoir, determined from stage-discharge relation for outflow structure. Reservoir is formed by earthfill dam. Outlet structure consists of concrete drop inlet connected to a 36-inch concrete outlet pipe. The concrete inlet structure is open on opposite sides of the drop inlet with a concrete cover. Top of the drop inlet is at gage height 10.9 ft (3.32 m), emergency spillway at gage height, 26.10 ft (7.955 m). Normal pool area, 95 acres (384,000 m<sup>2</sup>) with volume of 762 acre-ft (940,000 m<sup>3</sup>). Flood pool area, 304 acres (1.23 km<sup>2</sup>) with volume of 2,775 acre-ft (3.42 hm<sup>3</sup>).

REVISIONS (WATER YEARS).--WRD Miss. 1970: 1969.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT  | NOV     | DEC     | JAN     | FEB   | MAR   | APR   | MAY     | JUN     | JUL | AUG | SEP |
|-------|------|---------|---------|---------|-------|-------|-------|---------|---------|-----|-----|-----|
| 1     | 1.4  | 2.6     | 129     | 22      | 15    | 6.2   | 8.7   | 1.4     | 80      |     |     |     |
| 2     | 1.3  | 2.4     | 126     | 9.1     | 79    | 5.1   | 37    | 4.6     | 130     |     |     |     |
| 3     | 1.3  | 2.2     | 123     | 107     | 122   | 4.8   | 14    | 2.7     | 126     |     |     |     |
| 4     | 1.3  | 43      | 120     | 127     | 48    | 4.1   | 6.2   | 2.7     | 100     |     |     |     |
| 5     | 1.1  | 60      | 130     | 124     | 21    | 3.5   | 3.0   | 3.0     | 15      |     |     |     |
| 6     | 1.1  | 12      | 126     | 69      | 15    | 3.5   | 2.2   | 2.2     | 12      |     |     |     |
| 7     | 1.1  | 5.7     | 120     | 22      | 12    | 3.0   | 2.0   | 1.6     | 42      |     |     |     |
| 8     | 1.1  | 121     | 30      | 14      | 9.0   | 2.6   | 52    | 1.4     | 126     |     |     |     |
| 9     | 1.1  | 60      | 10      | 33      | 7.3   | 2.2   | 15    | 1.3     | 124     |     |     |     |
| 10    | 1.3  | 12      | 8.0     | 98      | 6.7   | 2.2   | 6.5   | 1.1     | 125     |     |     |     |
| 11    | 1.3  | 5.7     | 6.0     | 132     | 6.1   | 2.8   | 3.3   | 3.0     | 120     |     |     |     |
| 12    | 1.1  | 3.0     | 5.0     | 132     | 5.2   | 3.5   | 101   | 7.3     | 80      |     |     |     |
| 13    | 1.3  | 2.4     | 10      | 131     | 5.1   | 2.3   | 125   | 2.7     | 30      |     |     |     |
| 14    | 4.6  | 2.2     | 7.0     | 130     | 5.1   | 2.2   | 84    | 1.6     | 9.0     |     |     |     |
| 15    | 3.5  | 2.2     | 5.0     | 129     | 5.3   | 2.0   | 18    | 80      | 6.0     |     |     |     |
| 16    | 3.0  | 2.0     | 4.0     | 127     | 30    | 2.0   | 7.9   | 134     | 5.0     |     |     |     |
| 17    | 2.4  | 1.8     | 3.5     | 125     | 16    | 2.0   | 4.5   | 133     | 5.0     |     |     |     |
| 18    | 2.0  | 2.0     | 3.0     | 90      | 12    | 2.0   | 3.3   | 132     | 20      |     |     |     |
| 19    | 1.6  | 2.4     | 4.9     | 22      | 102   | 3.1   | 2.6   | 131     | 10      |     |     |     |
| 20    | 1.4  | 30      | 19      | 23      | 28    | 9.4   | 2.2   | 129     | 8.0     |     |     |     |
| 21    | 1.4  | 123     | 8.1     | 19      | 53    | 51    | 2.0   | 127     | 7.0     |     |     |     |
| 22    | 1.4  | 48      | 4.1     | 12      | 122   | 16    | 83    | 127     | 25      |     |     |     |
| 23    | 1.4  | 11      | 3.1     | 93      | 46    | 7.5   | 97    | 130     | 15      |     |     |     |
| 24    | 1.4  | 5.6     | 65      | 118     | 17    | 3.9   | 20    | 128     | 7.0     |     |     |     |
| 25    | 1.4  | 22      | 131     | 128     | 10    | 3.4   | 7.3   | 125     | 5.0     |     |     |     |
| 26    | 1.4  | 13      | 131     | 126     | 7.9   | 3.0   | 3.5   | 124     | 3.0     |     |     |     |
| 27    | 1.4  | 116     | 131     | 123     | 7.2   | 2.7   | 2.4   | 85      | 2.0     |     |     |     |
| 28    | 2.0  | 133     | 130     | 121     | 6.7   | 2.8   | 1.8   | 18      | 1.7     |     |     |     |
| 29    | 2.2  | 132     | 128     | 86      | ----- | 31    | 1.6   | 8.1     | 1.5     |     |     |     |
| 30    | 2.0  | 130     | 125     | 25      | ----- | 14    | 1.4   | 4.9     | 1.4     |     |     |     |
| 31    | 2.7  | -----   | 102     | 15      | ----- | 6.6   | ----- | 3.9     | -----   |     |     |     |
| TOTAL | 53.0 | 1,108.2 | 1,947.7 | 2,532.1 | 819.6 | 210.4 | 718.4 | 1,656.5 | 1,241.6 |     |     |     |
| MEAN  | 1.71 | 36.9    | 62.8    | 81.7    | 29.3  | 6.79  | 23.9  | 53.4    | 41.4    |     |     |     |
| MAX   | 4.6  | 133     | 131     | 132     | 122   | 51    | 125   | 134     | 130     |     |     |     |
| MIN   | 1.1  | 1.8     | 3.0     | 9.1     | 5.1   | 2.0   | 1.4   | 1.1     | 1.4     |     |     |     |
| CFSM  | .16  | 3.51    | 5.98    | 7.78    | 2.79  | .65   | 2.28  | 5.09    | 3.94    |     |     |     |
| IN.   | .19  | 3.93    | 6.90    | 8.97    | 2.90  | .75   | 2.54  | 5.87    | 4.40    |     |     |     |

CAL YR 1973 TOTAL 11,527.02 MEAN 31.6 MAX 414 MIN .49 CFSM 3.01 IN 40.83

07287000 Yazoo River at Greenwood, Miss.

LOCATION.--Lat 33°31'17", long 90°11'03", in NE¼SW¼ sec.10, T.19 N., R.1 E., Choctaw meridian, Leflore County, on left bank 110 ft (33.5 m) downstream from bridge on U.S. Highways 49E and 82 (old) in Greenwood, 0.4 mile (0.6 km) downstream from Palusha Bayou, 3 miles (5 km) downstream from confluence of Tallahatchie and Yalobusha Rivers, and at mile 170.8 (274.8 km).

DRAINAGE AREA.--7,450 mi<sup>2</sup> (19,300 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--October 1907 to December 1912, April to June 1913, and October 1927 to September 1973 in reports of Geological Survey. Monthly discharge only for some periods, published in WSP 1311. January 1909 to December 1927 (discharge measurements only), January 1928 to 1964 in reports of Mississippi River Commission, and since January 1947 in reports of Corps of Engineers. Gage-height records collected at same site since 1904 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder, and nonrecording gage read twice daily. Datum of gage is 92.07 ft (28.063 m) above mean sea level. Prior to Oct. 1, 1940, nonrecording gages on highway bridges 110 ft (33.5 m) upstream at various datums.

AVERAGE DISCHARGE.--51 years (1907-12, 1927-73), 9,929 ft<sup>3</sup>/s (281.2 m<sup>3</sup>/s), 18.10 in/yr (460 mm/yr), unadjusted.

EXTREMES.--Water year 1973: Maximum daily discharge, 43,800 ft<sup>3</sup>/s (1,240 m<sup>3</sup>/s) Mar. 21; maximum gage height, 38.37 ft (11.695 m) Mar. 20, 21; minimum daily discharge, 6,470 ft<sup>3</sup>/s (183 m<sup>3</sup>/s) Oct. 31 (gage height, 16.33 ft or 4.977 m).

Period of record: Maximum discharge, 72,900 ft<sup>3</sup>/s (2,060 m<sup>3</sup>/s) Jan. 19, 1932 (gage height, 40.10 ft or 12.222 m); minimum, 536 ft<sup>3</sup>/s (15.2 m<sup>3</sup>/s) Oct. 20, 1943; minimum gage height observed, 1.0 ft (0.305 m) Oct. 17, 1908, present datum.

Maximum stage known, 41.2 ft (12.56 m) in 1882, caused by overflow from Mississippi River (discharge not determined), from reports of Mississippi River Commission.

REMARKS.--Flow partly regulated since Aug. 26, 1939, by Sardis Lake on Tallahatchie River (see sta 07272000), Enid Lake on Yocona River (see sta 07274500), Arkabutla Lake on Coldwater River (see sta 07278000), and Grenada Lake on Yalobusha River (see sta 07284500).

COOPERATION.--Thirty discharge measurements and records of daily discharge furnished by Corps of Engineers. Records reviewed by Geological Survey.

NOTE.--Records for 1974 water year will be published in a subsequent report.

## YAZOO RIVER BASIN

07288500 Big Sunflower River at Sunflower, Miss.

LOCATION.--Lat 33°32'50", long 90°32'35", in NE¼ sec.6, T.19 N., R.3 W., Choctaw meridian, Sunflower County, near right bank on downstream side of highway bridge, 0.5 mile (0.8 km) northwest of Sunflower, 2.5 miles (4.0 km) downstream from Jones Bayou, and 19 miles (31 km) upstream from Quiver River.

DRAINAGE AREA.--767 mi<sup>2</sup> (1,987 km<sup>2</sup>).

PERIOD OF RECORD.--October 1935 to September 1973 in reports of Geological Survey. Prior to October 1938 monthly discharge only published in WSP 1311. February 1918 to September 1935 (gage heights only) in reports of Corps of Engineers, Vicksburg district. Prior to Oct. 1, 1972, published as Sunflower River at Sunflower, Miss.

GAGE.--Water-stage recorder. Datum of gage is 92.95 ft (28.331 m) above mean sea level (levels by Corps of Engineers). Prior to Nov. 28, 1934, nonrecording gage on upstream side of bridge at datum 93.00 ft (28.346 m) lower. Nov. 28, 1934, to June 30, 1947, nonrecording gage on upstream side of bridge at present datum.

AVERAGE DISCHARGE.--38 years, 992 ft<sup>3</sup>/s (28.1 m<sup>3</sup>/s), 17.56 in/yr (446 mm/yr).

EXTREMES.--Water year 1973: Maximum daily discharge, 15,000 ft<sup>3</sup>/s (425 m<sup>3</sup>/s) Mar. 18; maximum gage height, 28.37 ft (8.647 m) Mar. 18; minimum daily discharge, 96 ft<sup>3</sup>/s (2.72 m<sup>3</sup>/s) Oct. 20, 21; minimum gage height, 1.28 ft (0.390 m) Oct. 21.  
Period of record: Maximum daily discharge, 15,000 ft<sup>3</sup>/s (425 m<sup>3</sup>/s) Mar. 18, 1973; maximum gage height, 28.37 ft (8.647 m) Mar. 18, 1973; minimum discharge, 81 ft<sup>3</sup>/s (2.29 m<sup>3</sup>/s) Aug. 16, 1954, Aug. 9, 10, 1956; minimum gage height, 0.78 ft (0.238 m) Oct. 15, 1967.

REMARKS.--Diversion for irrigation of about 5,000 acres (20.2 km<sup>2</sup>) and withdrawal of an average of about 6 ft<sup>3</sup>/s (0.17 m<sup>3</sup>/s) for industrial use above station. At times streamflow is augmented by waste irrigation water which is pumped from wells.

COOPERATION.--Twenty-one discharge measurements and records of daily discharge furnished by Corps of Engineers; records reviewed by Geological Survey.

REVISIONS.--WSP 1211: Drainage area. WRD Miss. 1970: 1969(m).

NOTE.--Records for 1974 water year will be published in a subsequent report.



07289000 Mississippi River at Vicksburg, Miss.

LOCATION.--Lat 32°18'45", long 90°54'25", in T.16 N., R.3 E., Washington meridian, Warren County, over cavity of 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 miles (2.4 km) downstream from Yazoo diversion canal and at mile 430.4 (692.5 km).

DRAINAGE AREA.--1,144,500 mi<sup>2</sup> (2,964,300 km<sup>2</sup>).

PERIOD OF RECORD.--Discharge: January 1928 to September 1973. Prior to July 1931, monthly discharge only, published in WSP 1311.

Gage heights: April 1930 to September 1973 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; and since 1967, referred to gage 1.1 miles (1.8 km) upstream in reports of 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 Corps of Engineers. Prior to October 1968, published as Mississippi River near Vicksburg.

GAGE.--Water-stage recorder (bridge gage) maintained by Geological Survey. Jan. 1, 1963, to Dec. 31, 1967, supplementary water-stage recorder on left bank near downstream side of bridge, and since Jan. 1, 1968, on left bank at site 1.1 miles (1.8 km) upstream, maintained by Corps of Engineers. Datum of gage is 46.22 ft (14.088 m) above mean sea level (Corps of Engineers bench mark) or 46.16 ft (14.070 m) above mean gulf level. Gages used by Mississippi River Commission: Dec. 10, 1871, to Sept. 30, 1929, nonrecording gage at mouth of Yazoo diversion canal, 1.5 miles (2.4 km) upstream from bridge gage; since Sept. 30, 1929, nonrecording gage at mouth of Yazoo diversion canal, 1.5 miles (2.4 km) upstream from bridge gage; since October 1929, nonrecording gage on Yazoo diversion canal, 1,600 ft (490 m) upstream from mouth. Gages used by National Weather Service: May 18, 1873, to Oct. 29, 1919, nonrecording gage 0.5 mile (0.8 km) 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; and since Jan. 1, 1968, on left bank at site 1.1 miles (1.8 km) upstream.

All gages at same datum, but readings differ due to slope of water surface between them.

AVERAGE DISCHARGE.--45 years, 562,400 ft<sup>3</sup>/s (15,930 m<sup>3</sup>/s), 407,500,000 acre-ft/yr (502 km<sup>3</sup>/yr).

EXTREMES.--Water year 1973: Maximum daily discharge, 1,962,000 ft<sup>3</sup>/s (55,600 m<sup>3</sup>/s) May 12; Maximum gage height, 50.67 ft or 15.444 m May 14, at bridge gage, 53.10 ft or 16.185 m at supplementary recorder; minimum daily discharge, 291,000 ft<sup>3</sup>/s (8,240 m<sup>3</sup>/s) Sept. 26, minimum gage height, 9.00 ft (2.743 m) at supplementary recorder.

Period of record: Maximum discharge, 2,080,000 ft<sup>3</sup>/s (58,900 m<sup>3</sup>/s) Feb. 17, 1937; maximum gage height, 53.2 ft (16.22 m) Feb. 21, 1937; minimum discharge, 99,400 ft<sup>3</sup>/s (2,820 m<sup>3</sup>/s) Nov. 1, 1939; minimum gage height, -7.02 ft (-2.140 m) Feb. 3, 1940 (ice jam above).

Maximum stage known since at least 1871, 58.4 ft (17.80 m), Corps of Engineers gage on Yazoo diversion canal; approximately 56.0 ft (17.07 m) May 4, 1927 (Geological Survey gage).

REMARKS.--Records excellent. Natural flow of stream affected by many reservoirs and navigation dams. Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

COOPERATION.--Supplementary gage-height record and records of daily discharge furnished by Corps of Engineers.

REVISIONS.--WSP 747: Drainage area.

NOTE.--Records for 1974 water year will be published in a subsequent report.

## BIG BLACK RIVER BASIN

07289350 Big Black River at West, Miss.

LOCATION.--Lat 33°11'39", long 89°46'15", in NW¼ sec.3, T.15 N., R.5 E., Choctaw meridian, Attala County, on downstream side of bridge on State Highway 19, 0.2 mile (0.3 km) east of West, 5.2 miles (8.4 km) upstream from Jordan Creek, and 7.1 miles (11.4 km) downstream from Zilpha Creek.

DRAINAGE AREA.--985 mi<sup>2</sup> (2,551 km<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 Corps of Engineers, Vicksburg district.

GAGE.--Water-stage recorder. Datum of gage is 249.74 ft (76.121 m) above mean sea level. Prior to June 10, 1948, nonrecording gage; and June 10, 1948, to Nov. 2, 1967, recorder at site about 2,000 ft (610 m) downstream at same datum.

EXTREMES.--Current year: Maximum discharge, 16,700 ft<sup>3</sup>/s (473 m<sup>3</sup>/s) Dec. 25 (gage height, 21.20 ft or 6.462 m); minimum, 62 ft<sup>3</sup>/s (1.76 m<sup>3</sup>/s) Oct. 26, 27, 28 (gage height, 1.60 ft or 0.488 m).  
 Period of record: Maximum discharge, 57,700 ft<sup>3</sup>/s (1,630 m<sup>3</sup>/s) Mar. 16, 1973 (gage height, 25.11 ft or 7.654 m); minimum discharge, 40 ft<sup>3</sup>/s (1.13 m<sup>3</sup>/s) Sept. 16, 1972 (gage height, 1.12 ft or 0.341 m).  
 Flood of March 30, 1951, reached a stage of 24.09 ft or 7.343 m (47,000 ft<sup>3</sup>/s or 1,330 m<sup>3</sup>/s). Minimum gage height observed, 0.38 ft (0.116 m) Sept. 22, 23, 1956 (from reports of Corps of Engineers, Vicksburg district).

REMARKS.--Records good.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY         | OCT   | NOV     | DEC     | JAN     | FEB     | MAR    | APR     | MAY    | JUN    | JUL   | AUG   | SEP   |
|-------------|-------|---------|---------|---------|---------|--------|---------|--------|--------|-------|-------|-------|
| 1           | 231   | 160     | 7,020   | 5,220   | 6,960   | 1,210  | 3,210   | 514    | 722    | 670   | 78    | 507   |
| 2           | 174   | 140     | 5,700   | 3,660   | 5,500   | 758    | 3,940   | 628    | 979    | 319   | 72    | 1,130 |
| 3           | 195   | 129     | 4,340   | 3,240   | 4,260   | 635    | 3,570   | 612    | 849    | 253   | 72    | 1,210 |
| 4           | 133   | 139     | 3,280   | 4,700   | 3,870   | 574    | 2,810   | 542    | 557    | 218   | 77    | 700   |
| 5           | 102   | 374     | 2,130   | 5,300   | 3,240   | 517    | 2,480   | 610    | 368    | 188   | 113   | 339   |
| 6           | 94    | 384     | 1,230   | 4,700   | 2,990   | 465    | 2,500   | 790    | 884    | 174   | 91    | 213   |
| 7           | 85    | 292     | 787     | 8,600   | 3,250   | 430    | 2,070   | 755    | 1,380  | 176   | 73    | 166   |
| 8           | 73    | 490     | 518     | 7,100   | 3,230   | 394    | 1,190   | 676    | 2,180  | 242   | 122   | 147   |
| 9           | 69    | 1,530   | 405     | 5,900   | 2,790   | 365    | 620     | 388    | 2,990  | 363   | 108   | 138   |
| 10          | 71    | 1,480   | 350     | 7,340   | 2,490   | 338    | 489     | 324    | 4,720  | 332   | 122   | 158   |
| 11          | 80    | 866     | 324     | 8,030   | 2,510   | 347    | 402     | 306    | 9,320  | 215   | 89    | 201   |
| 12          | 77    | 417     | 297     | 9,950   | 2,170   | 1,190  | 1,010   | 529    | 7,500  | 156   | 83    | 199   |
| 13          | 67    | 257     | 286     | 8,840   | 1,520   | 1,280  | 5,070   | 614    | 5,380  | 135   | 532   | 193   |
| 14          | 66    | 200     | 282     | 7,850   | 1,060   | 1,210  | 8,030   | 476    | 3,600  | 127   | 1,390 | 209   |
| 15          | 131   | 170     | 268     | 9,560   | 2,290   | 1,160  | 9,080   | 339    | 2,720  | 112   | 1,460 | 152   |
| 16          | 287   | 159     | 249     | 8,180   | 4,580   | 785    | 8,660   | 358    | 1,520  | 112   | 1,170 | 128   |
| 17          | 314   | 150     | 235     | 6,860   | 5,940   | 507    | 7,220   | 807    | 672    | 114   | 819   | 133   |
| 18          | 178   | 138     | 224     | 6,400   | 6,540   | 408    | 5,440   | 839    | 504    | 109   | 519   | 115   |
| 19          | 136   | 133     | 222     | 5,380   | 6,700   | 373    | 3,620   | 490    | 1,310  | 143   | 250   | 102   |
| 20          | 113   | 124     | 550     | 4,100   | 5,740   | 1,600  | 2,400   | 306    | 1,480  | 109   | 156   | 98    |
| 21          | 87    | 592     | 954     | 3,800   | 4,260   | 2,980  | 910     | 249    | 1,470  | 121   | 118   | 93    |
| 22          | 80    | 1,180   | 1,030   | 3,420   | 5,340   | 4,100  | 1,740   | 223    | 980    | 98    | 101   | 89    |
| 23          | 75    | 1,170   | 847     | 3,480   | 5,180   | 5,440  | 6,120   | 316    | 1,110  | 109   | 91    | 86    |
| 24          | 73    | 948     | 1,290   | 7,450   | 4,520   | 5,620  | 5,840   | 532    | 1,790  | 94    | 85    | 82    |
| 25          | 68    | 658     | 9,960   | 12,600  | 5,460   | 4,060  | 4,700   | 426    | 1,780  | 112   | 80    | 84    |
| 26          | 64    | 835     | 13,800  | 12,400  | 4,700   | 3,140  | 4,760   | 455    | 2,300  | 131   | 78    | 106   |
| 27          | 62    | 2,300   | 12,400  | 11,800  | 3,460   | 1,900  | 3,580   | 1,040  | 4,700  | 114   | 77    | 131   |
| 28          | 66    | 11,500  | 10,600  | 11,500  | 2,460   | 976    | 2,460   | 1,130  | 5,100  | 136   | 94    | 138   |
| 29          | 73    | 11,000  | 9,440   | 12,600  | -----   | 1,650  | 1,070   | 1,250  | 3,310  | 134   | 142   | 310   |
| 30          | 82    | 8,750   | 8,150   | 9,680   | -----   | 2,850  | 575     | 920    | 2,340  | 105   | 321   | 278   |
| 31          | 96    | -----   | 6,620   | 7,880   | -----   | 3,050  | -----   | 428    | -----  | 87    | 261   | ----- |
| TOTAL       | 3,502 | 46,665  | 103,798 | 227,520 | 113,010 | 50,312 | 105,566 | 17,872 | 74,515 | 5,508 | 8,844 | 7,635 |
| MEAN        | 113   | 1,556   | 3,348   | 7,339   | 4,036   | 1,623  | 3,519   | 577    | 2,484  | 178   | 285   | 255   |
| MAX         | 314   | 11,500  | 13,800  | 12,600  | 6,960   | 5,620  | 9,080   | 1,250  | 9,320  | 670   | 1,460 | 1,210 |
| MIN         | 62    | 124     | 222     | 3,240   | 1,060   | 338    | 402     | 223    | 368    | 87    | 72    | 82    |
| CFSM        | .11   | 1.58    | 3.40    | 7.45    | 4.10    | 1.65   | 3.57    | .59    | 2.52   | .18   | .29   | .26   |
| IN.         | .13   | 1.76    | 3.92    | 8.59    | 4.27    | 1.90   | 3.99    | .67    | 2.81   | .21   | .33   | .29   |
| CAL YR 1973 | TOTAL | 846,306 | MEAN    | 2,319   | MAX     | 49,100 | MIN     | 52     | CFSM   | 2.35  | IN    | 31.96 |
| WTR YR 1974 | TOTAL | 764,747 | MEAN    | 2,095   | MAX     | 13,800 | MIN     | 62     | CFSM   | 2.13  | IN    | 28.88 |

## PEAK DISCHARGE (BASE, 10,000 CFS)

| DATE  | TIME | G. H. | DISCHARGE | DATE  | TIME | G. H. | DISCHARGE |
|-------|------|-------|-----------|-------|------|-------|-----------|
| 11-28 | 1300 | 20.85 | 14,600    | 01-12 | 0500 | 19.78 | 10,300    |
| 12-25 | 2230 | 21.20 | 16,700    | 01-29 | 0200 | 20.79 | 14,400    |

07290000 Big Black River near Bovina, Miss.

LOCATION.--Lat 32°20'51", long 90°41'48", in NW¼SE¼ sec.22, T.16 N., R.5 E., Washington meridian, Hinds County, on left bank at downstream side of bridge on U.S. Highway 80 (old), 300 ft (90 m) upstream from Clear Creek, 0.4 mile (0.6 km) upstream from Illinois Central Railroad bridge, 2 miles (3 km) east of Bovina, 12 miles (19 km) upstream from Fourteenmile Creek, and at mile 61.7 (99.3 km). Records include flow of Clear Creek.

DRAINAGE AREA.--2,810 mi<sup>2</sup> (7,280 km<sup>2</sup>), approximately (includes that of Clear Creek).

PERIOD OF RECORD.--February 1936 to current year. Prior to October 1938 monthly discharge only, published in WSP 1311.

GAGE.--Water-stage recorder and supplemental nonrecording gage read twice daily. Datum of gage is 84.93 ft (25.887 m) above mean sea level, or 85.00 ft (25.908 m) above mean Gulf level (levels by Corps of Engineers). Prior to Oct. 23, 1941, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--38 years, 3,483 ft<sup>3</sup>/s (98.64 m<sup>3</sup>/s); 16.83 in/yr (427 mm/yr).

EXTREMES.--Current year: Maximum discharge, 33,400 ft<sup>3</sup>/s (946 m<sup>3</sup>/s) Jan. 11 (gage height, 38.56 ft or 11.753 m); minimum, 216 ft<sup>3</sup>/s (6.12 m<sup>3</sup>/s) Oct. 13 (gage height, 7.01 ft or 2.137 m).  
Period of record: Maximum discharge, 63,500 ft<sup>3</sup>/s (1,800 m<sup>3</sup>/s) Dec. 20, 1961 (gage height, 40.53 ft or 12.354 m); minimum, 65 ft<sup>3</sup>/s (1.84 m<sup>3</sup>/s) Oct. 2, 1954 (gage height, 5.98 ft or 1.823 m).  
From information by local residents, floods at Askews Bridge, 6 miles (10 km) upstream, reached elevations above mean sea level as follows: Dec. 20, 1961, 139.2 ft (42.43 m); in 1912 and in January 1927, 139 ft (42.4 m); Apr. 1, 1951, 138.5 ft (42.21 m). A flood in May 1930, reached about the same elevation as that of Apr. 1, 1951, at Askews Bridge.

REMARKS.--Records good. Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD Miss. 1968: 1966-67.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT    | NOV    | DEC     | JAN     | FEB     | MAR     | APR     | MAY    | JUN     | JUL    | AUG    | SEP    |
|-------|--------|--------|---------|---------|---------|---------|---------|--------|---------|--------|--------|--------|
| 1     | 327    | 485    | 7,010   | 19,000  | 28,400  | 12,300  | 7,120   | 7,960  | 4,240   | 2,890  | 387    | 862    |
| 2     | 744    | 475    | 6,690   | 19,500  | 26,800  | 11,200  | 8,070   | 7,120  | 2,730   | 3,170  | 372    | 1,400  |
| 3     | 779    | 454    | 6,270   | 22,300  | 24,900  | 9,960   | 8,480   | 5,840  | 1,670   | 3,360  | 369    | 1,190  |
| 4     | 713    | 471    | 6,060   | 22,500  | 22,500  | 8,630   | 8,690   | 3,440  | 1,220   | 3,000  | 357    | 944    |
| 5     | 554    | 2,100  | 5,950   | 21,100  | 19,800  | 7,450   | 9,180   | 2,270  | 1,350   | 1,800  | 342    | 977    |
| 6     | 429    | 2,030  | 5,920   | 22,200  | 17,300  | 5,320   | 9,640   | 1,860  | 2,500   | 1,040  | 327    | 1,220  |
| 7     | 370    | 2,960  | 5,740   | 23,700  | 15,500  | 3,000   | 9,630   | 1,680  | 4,190   | 858    | 315    | 1,180  |
| 8     | 345    | 2,220  | 5,780   | 24,400  | 13,800  | 2,240   | 8,980   | 1,670  | 4,730   | 777    | 315    | 915    |
| 9     | 304    | 1,710  | 5,910   | 27,900  | 12,300  | 1,970   | 7,750   | 1,550  | 4,950   | 740    | 339    | 703    |
| 10    | 282    | 1,070  | 6,030   | 28,600  | 11,300  | 1,780   | 6,220   | 1,480  | 5,200   | 673    | 348    | 598    |
| 11    | 252    | 962    | 5,450   | 31,300  | 10,400  | 1,830   | 5,010   | 1,550  | 5,270   | 625    | 381    | 743    |
| 12    | 233    | 1,570  | 2,900   | 29,800  | 9,610   | 3,480   | 7,820   | 3,710  | 5,290   | 568    | 366    | 775    |
| 13    | 220    | 1,800  | 1,370   | 27,900  | 8,990   | 3,740   | 15,600  | 5,670  | 5,400   | 619    | 351    | 562    |
| 14    | 371    | 1,490  | 1,030   | 29,100  | 8,460   | 3,430   | 15,500  | 6,140  | 5,510   | 606    | 381    | 524    |
| 15    | 386    | 1,030  | 903     | 29,100  | 10,700  | 3,540   | 14,900  | 4,580  | 5,500   | 571    | 369    | 497    |
| 16    | 593    | 735    | 814     | 27,000  | 13,000  | 3,400   | 15,600  | 2,300  | 5,260   | 747    | 417    | 476    |
| 17    | 1,770  | 589    | 755     | 25,600  | 13,500  | 2,980   | 17,300  | 1,460  | 4,950   | 619    | 828    | 449    |
| 18    | 2,760  | 496    | 710     | 23,900  | 14,500  | 2,680   | 17,900  | 1,170  | 4,840   | 606    | 1,350  | 446    |
| 19    | 2,550  | 434    | 695     | 22,200  | 15,900  | 2,390   | 17,400  | 977    | 4,900   | 770    | 1,480  | 421    |
| 20    | 1,480  | 412    | 991     | 20,400  | 17,500  | 2,020   | 15,800  | 914    | 4,930   | 587    | 1,320  | 388    |
| 21    | 927    | 835    | 1,370   | 18,500  | 18,700  | 2,060   | 13,900  | 1,120  | 3,840   | 552    | 1,060  | 360    |
| 22    | 604    | 1,420  | 1,810   | 17,300  | 19,000  | 2,740   | 12,300  | 1,220  | 2,160   | 625    | 839    | 344    |
| 23    | 464    | 2,040  | 2,020   | 16,700  | 17,800  | 3,730   | 12,100  | 1,230  | 2,130   | 616    | 673    | 335    |
| 24    | 384    | 2,410  | 7,290   | 17,600  | 16,300  | 4,320   | 11,700  | 1,010  | 2,120   | 531    | 574    | 325    |
| 25    | 335    | 2,290  | 15,400  | 18,500  | 15,200  | 4,680   | 11,400  | 878    | 2,090   | 513    | 507    | 426    |
| 26    | 294    | 1,970  | 15,100  | 22,300  | 14,600  | 4,860   | 11,300  | 1,110  | 2,440   | 507    | 465    | 995    |
| 27    | 264    | 2,960  | 14,800  | 26,900  | 13,700  | 5,050   | 11,000  | 1,570  | 2,560   | 609    | 471    | 626    |
| 28    | 255    | 6,060  | 15,200  | 30,400  | 13,100  | 5,210   | 10,500  | 3,120  | 2,410   | 546    | 648    | 482    |
| 29    | 244    | 7,260  | 15,000  | 30,100  | -----   | 5,970   | 9,700   | 4,010  | 2,350   | 447    | 534    | 986    |
| 30    | 233    | 7,180  | 17,400  | 29,800  | -----   | 6,710   | 8,840   | 4,420  | 2,560   | 411    | 498    | 826    |
| 31    | 341    | -----  | 18,500  | 29,700  | -----   | 6,970   | -----   | 4,690  | -----   | 402    | 513    | -----  |
| TOTAL | 20,024 | 58,922 | 201,754 | 755,300 | 443,560 | 145,640 | 339,330 | 87,719 | 109,290 | 30,385 | 17,496 | 20,975 |
| MEAN  | 646    | 1,864  | 6,504   | 24,360  | 15,840  | 4,698   | 11,310  | 2,830  | 3,643   | 980    | 564    | 699    |
| MAX   | 2,760  | 7,260  | 18,500  | 31,300  | 28,400  | 12,300  | 17,900  | 7,960  | 5,510   | 3,360  | 1,480  | 1,400  |
| MIN   | 220    | 412    | 695     | 16,700  | 8,460   | 1,780   | 5,010   | 878    | 1,220   | 402    | 315    | 325    |
| CFSM  | .23    | .70    | 2.32    | 8.67    | 5.64    | 1.67    | 4.02    | 1.01   | 1.30    | .35    | .20    | .25    |
| IN    | .27    | .78    | 2.67    | 10.00   | 5.87    | 1.93    | 4.49    | 1.16   | 1.45    | .40    | .23    | .28    |

CAL YR 1973 TOTAL 2,056,482 MEAN 5,634 MAX 45,700 MIN 173 CFSM 2.01 IN 27.22  
WTR YR 1974 TOTAL 2,237,403 MEAN 6,111 MAX 31,300 MIN 220 CFSM 2.17 IN 29.53

## BAYOU PIERRE BASIN

07290650 Bayou Pierre near Willows, Miss.

LOCATION.--Lat 32°00'55", long 90°53'00", in lot 16, T.12 N., R.3 E., Washington meridian, Claiborne County, near right bank at downstream side of bridge on county highway, 1.4 miles (2.3 km) upstream from South Fork Bayou Pierre, and 1.7 miles (2.7 km) southeast of Willows.

DRAINAGE AREA.--653 mi<sup>2</sup> (1,691 km<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 (25.097 m) above mean sea level. Sept. 9, 1958, to May 31, 1961, crest-stage gage at same site and datum.

AVERAGE DISCHARGE.--13 years, 778 ft<sup>3</sup>/s (21.98 m<sup>3</sup>/s), 16.18 in/yr (410 mm/yr).

EXTREMES.--Current year: Maximum discharge, 51,000 ft<sup>3</sup>/s (1,440 m<sup>3</sup>/s) Apr. 13 (gage height, 27.33 ft or 8.330 m) minimum, 51 ft<sup>3</sup>/s (1.44 m<sup>3</sup>/s) Oct. 30 (gage height, 2.98 ft or 0.908 m).

Period of record: Maximum discharge, 51,000 ft<sup>3</sup>/s (1,440 m<sup>3</sup>/s) Apr. 13, 1974 (gage height, 27.33 ft or 8.330 m); maximum gage height, 27.42 ft (8.358 m) Oct. 5, 1964; minimum discharge, 19 ft<sup>3</sup>/s (0.54 m<sup>3</sup>/s) Oct. 6, 1969; minimum gage height, 2.17 ft (0.661 m) Nov. 4, 5, 6, 1971.

REMARKS.--Records good except those for periods of no gage-height record, which are poor.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT   | NOV    | DEC    | JAN     | FEB    | MAR    | APR     | MAY   | JUN   | JUL   | AUG    | SEP    |
|-------|-------|--------|--------|---------|--------|--------|---------|-------|-------|-------|--------|--------|
| 1     | 108   | 144    | 467    | 1,440   | 1,100  | 464    | 491     | 309   | 124   | 75    | 72     | 2,370  |
| 2     | 95    | 95     | 307    | 695     | 950    | 422    | 2,670   | 280   | 120   | 74    | 80     | 2,120  |
| 3     | 74    | 76     | 254    | 8,630   | 955    | 391    | 3,460   | 274   | 140   | 74    | 77     | 530    |
| 4     | 65    | 332    | 318    | 10,900  | 865    | 357    | 2,230   | 252   | 320   | 72    | 75     | 255    |
| 5     | 63    | 3,650  | 380    | 2,460   | 660    | 323    | 994     | 240   | 810   | 71    | 68     | 166    |
| 6     | 59    | 788    | 304    | 2,000   | 2,300  | 290    | 710     | 230   | 300   | 368   | 64     | 126    |
| 7     | 57    | 405    | 218    | 5,180   | 6,200  | 269    | 520     | 221   | 200   | 565   | 65     | 108    |
| 8     | 54    | 382    | 185    | 2,350   | 1,020  | 243    | 443     | 213   | 150   | 171   | 122    | 107    |
| 9     | 55    | 309    | 170    | 1,690   | 900    | 227    | 387     | 206   | 135   | 166   | 88     | 178    |
| 10    | 59    | 360    | 161    | 1,820   | 700    | 210    | 338     | 201   | 128   | 176   | 68     | 252    |
| 11    | 57    | 433    | 150    | 9,000   | 600    | 210    | 252     | 560   | 120   | 116   | 60     | 286    |
| 12    | 60    | 195    | 144    | 5,170   | 560    | 6,120  | 10,900  | 795   | 114   | 92    | 60     | 233    |
| 13    | 65    | 146    | 141    | 2,820   | 520    | 3,170  | 39,800  | 304   | 111   | 83    | 293    | 141    |
| 14    | 113   | 125    | 137    | 2,560   | 450    | 1,090  | 39,700  | 234   | 109   | 108   | 1,560  | 319    |
| 15    | 117   | 113    | 194    | 3,270   | 800    | 665    | 24,200  | 210   | 107   | 139   | 194    | 585    |
| 16    | 551   | 105    | 234    | 1,370   | 5,000  | 540    | 5,100   | 190   | 110   | 105   | 91     | 230    |
| 17    | 359   | 93     | 153    | 911     | 2,000  | 469    | 2,700   | 180   | 105   | 94    | 86     | 143    |
| 18    | 140   | 87     | 136    | 700     | 1,500  | 414    | 2,000   | 160   | 98    | 83    | 99     | 112    |
| 19    | 92    | 86     | 151    | 705     | 8,100  | 368    | 1,200   | 150   | 94    | 161   | 680    | 96     |
| 20    | 79    | 105    | 1,540  | 5,740   | 2,740  | 330    | 980     | 145   | 92    | 92    | 259    | 86     |
| 21    | 69    | 2,610  | 986    | 3,070   | 2,580  | 675    | 750     | 140   | 89    | 72    | 114    | 80     |
| 22    | 59    | 1,210  | 451    | 1,820   | 4,620  | 730    | 600     | 138   | 92    | 68    | 83     | 75     |
| 23    | 58    | 619    | 290    | 2,980   | 1,850  | 520    | 1,640   | 240   | 120   | 65    | 70     | 70     |
| 24    | 55    | 279    | 3,380  | 8,420   | 1,110  | 473    | 1,120   | 460   | 168   | 75    | 63     | 65     |
| 25    | 53    | 301    | 16,700 | 8,940   | 785    | 357    | 740     | 600   | 124   | 92    | 59     | 875    |
| 26    | 53    | 361    | 13,900 | 9,880   | 640    | 550    | 555     | 320   | 98    | 145   | 77     | 4,740  |
| 27    | 52    | 2,610  | 6,150  | 4,930   | 565    | 3,340  | 464     | 190   | 94    | 199   | 116    | 1,010  |
| 28    | 54    | 5,290  | 2,910  | 11,100  | 510    | 2,230  | 414     | 154   | 84    | 152   | 575    | 376    |
| 29    | 54    | 2,030  | 1,380  | 8,050   | -----  | 1,300  | 361     | 140   | 80    | 105   | 1,890  | 835    |
| 30    | 51    | 1,370  | 840    | 3,070   | -----  | 895    | 330     | 135   | 78    | 96    | 850    | 384    |
| 31    | 124   | -----  | 1,730  | 1,690   | -----  | 580    | -----   | 130   | ----- | 80    | 3,190  | -----  |
| TOTAL | 3,004 | 24,709 | 54,461 | 133,361 | 50,580 | 28,222 | 146,049 | 8,001 | 4,514 | 4,034 | 11,248 | 16,953 |
| MEAN  | 96.9  | 824    | 1,757  | 4,302   | 1,806  | 910    | 4,868   | 258   | 150   | 130   | 363    | 565    |
| MAX   | 551   | 5,290  | 16,700 | 11,100  | 8,100  | 6,120  | 39,800  | 795   | 810   | 565   | 3,190  | 4,740  |
| MIN   | 51    | 76     | 136    | 695     | 450    | 210    | 252     | 130   | 78    | 65    | 59     | 65     |
| CFSM  | .15   | 1.26   | 2.69   | 6.59    | 2.77   | 1.39   | 7.45    | .40   | .23   | .20   | .56    | .87    |
| IN.   | .17   | 1.41   | 3.10   | 7.60    | 2.88   | 1.61   | 8.32    | .46   | .26   | .23   | .64    | .97    |

CAL YR 1973 TOTAL 477,113 MEAN 1,307 MAX 22,900 MIN 51 CFSM 2.00 IN 27.18  
WTR YR 1974 TOTAL 485,136 MEAN 1,329 MAX 39,800 MIN 51 CFSM 2.04 IN 27.64

## PEAK DISCHARGE (BASE, 15,000 CFS)

NOTE.--No gage-height record May 14 to June 14.

| DATE  | TIME | G. H. | DISCHARGE | DATE  | TIME | G. H. | DISCHARGE |
|-------|------|-------|-----------|-------|------|-------|-----------|
| 12-25 | 2100 | 22.47 | 19,600    | 01-28 | 2300 | 21.76 | 18,300    |
| 01-04 | 0245 | 21.91 | 18,600    | 04-13 | 1745 | 27.33 | 51,000    |

## 07291000 Homochitto River at Eddiceton, Miss.

LOCATION.--Lat 31°30'10", long 90°46'35", in SE¼NE¼ sec.11, T.6 N., R.4 E., Washington meridian, Franklin County, on left bank at upstream side of Mississippi Central Railroad bridge, 900 ft (270 m) downstream from bridge on U.S. Highway 84, 0.4 mile (0.6 km) upstream from McCall Creek, and 0.8 mile (1.3 km) east of Eddiceton.

DRAINAGE AREA.--180 mi<sup>2</sup> (470 km<sup>2</sup>), approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 217.22 ft (66.209 m) above mean sea level. Prior to May 26, 1942, nonrecording gage at site 900 ft (270 m) upstream at present datum.

AVERAGE DISCHARGE.--36 years, 251 ft<sup>3</sup>/s (7.108 m<sup>3</sup>/s), 18.94 in/yr (481 mm/yr).

EXTREMES.--Current year: Maximum discharge, 55,400 ft<sup>3</sup>/s (1,570 m<sup>3</sup>/s) Apr. 13 (gage height, 19.53 ft or 5.95 m, from floodmark); minimum daily, 43 ft<sup>3</sup>/s (1.22 m<sup>3</sup>/s) Oct. 29.  
Period of record: Maximum discharge, 55,400 ft<sup>3</sup>/s (1,570 m<sup>3</sup>/s) Apr. 13, 1974 (gage height, 19.53 ft or 5.95 m); minimum discharge, 26 ft<sup>3</sup>/s (0.74 m<sup>3</sup>/s) Sept. 10, 1952 (temporary regulation); minimum unregulated, 28 ft<sup>3</sup>/s (0.79 m<sup>3</sup>/s) Sept. 2, 4, 1954, Sept. 29, 1956.

REMARKS.--Records fair except those for period of no gage-height record, which are poor.

REVISIONS (WATER YEARS).--WSP 1281: 1939-40, 1942-44, 1949-50.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY         | OCT           | NOV      | DEC        | JAN    | FEB       | MAR      | APR    | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|---------------|----------|------------|--------|-----------|----------|--------|-------|-------|-------|-------|-------|
| 1           | 63            | 63       | 163        | 248    | 364       | 188      | 288    | 122   | 120   | 52    | 66    | 120   |
| 2           | 56            | 51       | 136        | 204    | 371       | 187      | 2,750  | 118   | 100   | 50    | 74    | 150   |
| 3           | 55            | 50       | 119        | 1,060  | 361       | 178      | 536    | 114   | 82    | 92    | 78    | 70    |
| 4           | 53            | 67       | 233        | 709    | 289       | 170      | 502    | 107   | 98    | 76    | 64    | 65    |
| 5           | 53            | 493      | 168        | 401    | 260       | 161      | 345    | 117   | 84    | 56    | 56    | 55    |
| 6           | 51            | 117      | 114        | 480    | 333       | 154      | 262    | 107   | 76    | 500   | 55    | 50    |
| 7           | 50            | 91       | 97         | 1,360  | 435       | 148      | 235    | 99    | 73    | 260   | 53    | 60    |
| 8           | 48            | 87       | 89         | 442    | 336       | 141      | 219    | 96    | 69    | 180   | 52    | 55    |
| 9           | 51            | 89       | 85         | 443    | 267       | 137      | 193    | 94    | 66    | 120   | 65    | 100   |
| 10          | 55            | 100      | 80         | 385    | 241       | 135      | 179    | 100   | 150   | 94    | 57    | 200   |
| 11          | 50            | 65       | 76         | 2,680  | 228       | 167      | 172    | 150   | 100   | 84    | 50    | 120   |
| 12          | 48            | 60       | 75         | 1,150  | 216       | 389      | 5,710  | 198   | 78    | 78    | 80    | 80    |
| 13          | 47            | 60       | 75         | 506    | 210       | 280      | 34,600 | 110   | 62    | 72    | 65    | 70    |
| 14          | 48            | 58       | 72         | 407    | 205       | 189      | 9,160  | 90    | 58    | 110   | 75    | 80    |
| 15          | 51            | 56       | 76         | 362    | 1,580     | 164      | 1,220  | 85    | 76    | 140   | 65    | 250   |
| 16          | 58            | 55       | 69         | 319    | 1,620     | 154      | 540    | 120   | 70    | 105   | 55    | 120   |
| 17          | 58            | 55       | 67         | 284    | 503       | 137      | 388    | 105   | 66    | 90    | 50    | 90    |
| 18          | 51            | 56       | 70         | 266    | 353       | 131      | 214    | 84    | 64    | 76    | 58    | 75    |
| 19          | 50            | 56       | 94         | 349    | 915       | 131      | 189    | 80    | 62    | 64    | 55    | 65    |
| 20          | 47            | 110      | 304        | 2,320  | 433       | 127      | 171    | 76    | 59    | 58    | 53    | 62    |
| 21          | 47            | 792      | 159        | 603    | 378       | 183      | 162    | 80    | 58    | 52    | 50    | 58    |
| 22          | 47            | 211      | 109        | 389    | 621       | 155      | 167    | 400   | 57    | 50    | 48    | 56    |
| 23          | 48            | 128      | 94         | 386    | 339       | 144      | 213    | 350   | 92    | 48    | 46    | 54    |
| 24          | 47            | 122      | 968        | 1,670  | 273       | 184      | 171    | 230   | 74    | 46    | 45    | 52    |
| 25          | 46            | 182      | 10,300     | 1,930  | 227       | 235      | 152    | 130   | 65    | 80    | 44    | 50    |
| 26          | 45            | 226      | 2,740      | 1,730  | 207       | 227      | 158    | 160   | 62    | 70    | 60    | 80    |
| 27          | 44            | 1,300    | 668        | 870    | 203       | 960      | 148    | 180   | 60    | 180   | 50    | 72    |
| 28          | 43            | 1,520    | 401        | 3,070  | 196       | 400      | 138    | 90    | 56    | 120   | 47    | 64    |
| 29          | 44            | 298      | 332        | 1,070  | -----     | 289      | 132    | 82    | 54    | 100   | 80    | 58    |
| 30          | 44            | 203      | 354        | 568    | -----     | 211      | 126    | 76    | 52    | 85    | 100   | 50    |
| 31          | 65            | -----    | 300        | 432    | -----     | 163      | -----  | 72    | ----- | 75    | 200   | ----- |
| TOTAL       | 1,563         | 6,821    | 18,687     | 27,093 | 11,964    | 6,619    | 59,440 | 4,022 | 2,243 | 3,263 | 1,996 | 2,531 |
| MEAN        | 50.4          | 227      | 603        | 874    | 427       | 214      | 1,981  | 130   | 74.8  | 105   | 64.4  | 84.4  |
| MAX         | 65            | 1,520    | 10,300     | 3,070  | 1,620     | 960      | 34,600 | 400   | 150   | 500   | 200   | 250   |
| MIN         | 43            | 50       | 67         | 204    | 196       | 127      | 126    | 72    | 52    | 46    | 44    | 50    |
| CFSM        | .28           | 1.26     | 3.35       | 4.86   | 2.37      | 1.19     | 11.0   | .72   | .42   | .58   | .36   | .47   |
| IN.         | .32           | 1.41     | 3.86       | 5.60   | 2.47      | 1.37     | 12.28  | .83   | .46   | .67   | .41   | .52   |
| CAL YR 1973 | TOTAL 143,466 | MEAN 393 | MAX 10,300 | MIN 43 | CFSM 2.18 | IN 29.65 |        |       |       |       |       |       |
| WTR YR 1974 | TOTAL 146,242 | MEAN 401 | MAX 34,600 | MIN 43 | CFSM 2.23 | IN 30.22 |        |       |       |       |       |       |

## PEAK DISCHARGE (BASE, 9,000 CFS)

NOTE.--Doubtful or no gage-height record  
Oct. 25-30, Apr. 13, May 9 to Sept. 30.

| DATE  | TIME | G. H. | DISCHARGE | DATE  | TIME | G. H. | DISCHARGE |
|-------|------|-------|-----------|-------|------|-------|-----------|
| 12-25 | 0430 | 12.51 | 17,700    | 04-13 | 1630 | 19.53 | 55,400    |

† From floodmark



## HOMOCHITTO RIVER BASIN

07292500 Homochitto River at Rosetta, Miss.

LOCATION.--Lat 31°19'20", long 91°06'20", in sec.12, T.4 N., R.1 E., Washington meridian, Wilkinson County, on downstream side of bridge on State Highway 33 at Rosetta, 800 ft (240 m) downstream from Illinois Central Railroad bridge, 1 mile (1.6 km) downstream from Foster Creek, and 5 miles (8 km) upstream from Dry Creek.

DRAINAGE AREA.--750 mi<sup>2</sup> (1,940 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--June to November 1906 (gage heights and discharge measurements only), October 1951 to current year in reports of Geological Survey. February 1949 to September 1951 (gage heights and discharge measurements only) in reports of Corps of Engineers, Vicksburg district.

GAGE.--Water-stage recorder and nonrecording gage read twice daily. Datum of gage is 94.39 ft (28.770 m) above mean sea level. June 16 to Nov. 12, 1906, nonrecording gage at railroad bridge 800 ft (240 m) upstream at different datum.

AVERAGE DISCHARGE.--23 years, 1,022 ft<sup>3</sup>/s (28.94 m<sup>3</sup>/s), 18.51 in/yr (470 mm/yr).

EXTREMES.--Current year: Maximum discharge, 150,000 ft<sup>3</sup>/s (4,250 m<sup>3</sup>/s) Apr. 13 (gage height, 28.60 ft or 8.717 m) from rating curve extended above 47,000 ft<sup>3</sup>/s (1,330 m<sup>3</sup>/s) on basis of runoff comparisons with nearby stations; minimum daily, 230 ft<sup>3</sup>/s (6.52 m<sup>3</sup>/s) Oct. 29.

Period of record: Maximum discharge, 150,000 ft<sup>3</sup>/s (4,250 m<sup>3</sup>/s) Apr. 13, 1974, from rating curve extended above 47,000 ft<sup>3</sup>/s (1,330 m<sup>3</sup>/s); maximum gage height, 36.03 ft (10.982 m) May 4, 1953; minimum discharge, 129 ft<sup>3</sup>/s (3.65 m<sup>3</sup>/s) Sept. 22-25, 28-30, 1956.

Maximum stage since February 1949, 37.80 ft (11.521 m) Mar. 31, 1949, from reports of Corps of Engineers, Vicksburg district.

REMARKS.--Records fair except those above 1,000 ft<sup>3</sup>/s (28.3 m<sup>3</sup>/s), which are poor. Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1731: 1955 (M). WSP 1920: 1955.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY   | OCT   | NOV    | DEC    | JAN    | FEB    | MAR    | APR     | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------|-------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|
| 1     | 520   | 262    | 402    | 648    | 1,430  | 542    | 482     | 747    | 423    | 317    | 400    | 595    |
| 2     | 411   | 264    | 737    | 683    | 1,620  | 544    | 9,290   | 766    | 927    | 312    | 435    | 510    |
| 3     | 364   | 274    | 644    | 1,440  | 1,440  | 542    | 3,490   | 734    | 717    | 350    | 430    | 540    |
| 4     | 357   | 271    | 644    | 2,380  | 1,120  | 542    | 2,420   | 734    | 477    | 372    | 495    | 500    |
| 5     | 350   | 1,020  | 654    | 850    | 476    | 572    | 1,480   | 734    | 454    | 339    | 460    | 440    |
| 6     | 332   | 734    | 1,030  | 1,050  | 1,300  | 555    | 1,040   | 731    | 495    | 361    | 420    | 435    |
| 7     | 336   | 422    | 634    | 2,250  | 2,490  | 535    | 324     | 645    | 417    | 1,500  | 405    | 430    |
| 8     | 329   | 753    | 444    | 1,280  | 1,630  | 520    | 683     | 591    | 384    | 744    | 410    | 520    |
| 9     | 329   | 861    | 420    | 543    | 1,160  | 436    | 577     | 575    | 366    | 600    | 400    | 1,220  |
| 10    | 346   | 610    | 392    | 1,050  | 882    | 447    | 505     | 524    | 405    | 450    | 425    | 545    |
| 11    | 343   | 450    | 360    | 8,150  | 725    | 621    | 460     | 591    | 561    | 390    | 380    | 570    |
| 12    | 326   | 375    | 320    | 6,150  | 701    | 1,440  | 12,200  | 639    | 483    | 370    | 375    | 540    |
| 13    | 315   | 360    | 296    | 3,310  | 654    | 876    | 112,000 | 524    | 417    | 365    | 420    | 404    |
| 14    | 322   | 357    | 317    | 1,610  | 564    | 850    | 64,000  | 447    | 471    | 420    | 610    | 2,290  |
| 15    | 326   | 353    | 284    | 1,330  | 1,000  | 761    | 14,500  | 447    | 766    | 595    | 430    | 1,390  |
| 16    | 326   | 357    | 311    | 1,050  | 5,180  | 725    | 5,220   | 424    | 513    | 440    | 400    | 422    |
| 17    | 353   | 364    | 314    | 571    | 2,020  | 648    | 3,710   | 441    | 429    | 370    | 395    | 466    |
| 18    | 302   | 357    | 314    | 850    | 1,000  | 610    | 3,000   | 435    | 429    | 344    | 490    | 600    |
| 19    | 280   | 353    | 341    | 985    | 1,410  | 594    | 2,190   | 435    | 423    | 320    | 490    | 545    |
| 20    | 271   | 393    | 565    | 7,080  | 1,340  | 534    | 1,490   | 441    | 400    | 304    | 440    | 600    |
| 21    | 250   | 2,220  | 1,070  | 2,580  | 985    | 737    | 1,700   | 441    | 383    | 332    | 405    | 540    |
| 22    | 236   | 1,310  | 677    | 1,580  | 2,520  | 745    | 1,630   | 603    | 383    | 344    | 390    | 560    |
| 23    | 236   | 792    | 442    | 1,530  | 1,040  | 677    | 1,560   | 843    | 405    | 328    | 375    | 545    |
| 24    | 242   | 444    | 3,440  | 5,220  | 773    | 665    | 1,510   | 555    | 411    | 415    | 360    | 510    |
| 25    | 236   | 993    | 29,000 | 8,100  | 794    | 1,640  | 1,300   | 423    | 372    | 445    | 375    | 520    |
| 26    | 244   | 1,330  | 14,600 | 7,200  | 665    | 1,030  | 1,100   | 585    | 350    | 380    | 410    | 520    |
| 27    | 256   | 2,040  | 3,240  | 4,520  | 632    | 3,540  | 1,090   | 639    | 334    | 360    | 470    | 764    |
| 28    | 256   | 7,590  | 1,340  | 8,520  | 621    | 2,540  | 1,040   | 447    | 328    | 420    | 485    | 550    |
| 29    | 230   | 1,680  | 1,050  | 5,050  | -----  | 1,540  | 492     | 435    | 324    | 375    | 555    | 520    |
| 30    | 233   | 1,040  | 429    | 2,420  | -----  | 1,320  | 804     | 423    | 322    | 356    | 600    | 510    |
| 31    | 259   | -----  | 745    | 1,750  | -----  | 1,040  | -----   | 394    | -----  | 410    | 690    | -----  |
| TOTAL | 9,420 | 29,103 | 66,712 | 92,750 | 37,104 | 28,943 | 264,191 | 17,456 | 13,993 | 13,432 | 13,825 | 20,375 |
| MEAN  | 307   | 970    | 2,152  | 2,952  | 1,325  | 934    | 4,406   | 563    | 466    | 433    | 446    | 679    |
| MAX   | 520   | 7,990  | 29,000 | 8,520  | 5,180  | 3,540  | 112,000 | 843    | 927    | 1,500  | 690    | 2,290  |
| MIN   | 230   | 262    | 284    | 648    | 564    | 447    | 460     | 394    | 322    | 304    | 360    | 430    |
| CFSM  | .41   | 1.24   | 2.47   | 3.59   | 1.77   | 1.25   | 11.7    | .75    | .62    | .58    | .54    | .91    |
| IN.   | .47   | 1.44   | 3.31   | 4.60   | 1.94   | 1.44   | 13.10   | .87    | .64    | .67    | .69    | 1.01   |

CAL YR 1973 TOTAL 612,642 MEAN 1,678 MAX 29,000 MIN 230 CFSM 2.24 IN 30.34  
 YR 1974 TOTAL 607,404 MEAN 1,654 MAX 112,000 MIN 230 CFSM 2.22 IN 30.13

## PEAK DISCHARGE (BASE, 16,000 CFS)

| DATE  | TIME         | G. H. | DISCHARGE | DATE  | TIME         | G. H. | DISCHARGE |
|-------|--------------|-------|-----------|-------|--------------|-------|-----------|
| 12-25 | 0300         | 22.00 | 49,300    | 04-02 | a0400 b17.30 |       | 16,500    |
| 01-28 | a1700 b17.78 |       | 18,900    | 04-13 | a2000 b28.60 |       | 150,000   |

a Approximately.

07295000 Buffalo River near Woodville, Miss.

LOCATION.--Lat 31°13'35", long 91°17'45", in SW¼ sec.21, T.3 N., R.2 W., Washington meridian, Wilkinson County, near center of span on downstream side of bridge on U.S. Highway 61, 1.5 miles (2.4 km) downstream from Fords Creek, 2.8 miles (4.5 km) west of Wilkinson, and 8.5 miles (13.7 km) north of Woodville.

DRAINAGE AREA.--182 mi<sup>2</sup> (471 km<sup>2</sup>).

PERIOD OF RECORD.--March 1942 to current year. Prior to October 1950, published as Buffalo Bayou near Woodville.

GAGE.--Water-stage recorder. Datum of gage is 94.52 ft (28.810 m) above mean sea level. Prior to June 1, 1942, nonrecording gage at same site. Prior to Oct. 1, 1964, at datum 3.00 ft (0.914 m) higher.

AVERAGE DISCHARGE.--32 years, 263 ft<sup>3</sup>/s (7.448 m<sup>3</sup>/s), 19.62 in/yr (498 mm/yr).

EXTREMES.--Current year: Maximum discharge, 42,000 ft<sup>3</sup>/s (1,189 m<sup>3</sup>/s) Apr. 13 (gage height, 19.61 ft or 5.98 m); minimum daily, 54 ft<sup>3</sup>/s (1.53 m<sup>3</sup>/s) Oct. 23-27.

Period of record: Maximum discharge, 65,000 ft<sup>3</sup>/s (1,840 m<sup>3</sup>/s) Mar. 25, 1973 (gage height, 22.3 ft or 6.80 m, from floodmarks), from rating curve extended above 35,000 ft<sup>3</sup>/s (990 m<sup>3</sup>/s); minimum, 16 ft<sup>3</sup>/s (0.45 m<sup>3</sup>/s) Aug. 14, 18, 19, 1954, Sept. 28, 1956.

REMARKS.--Records poor.

REVISIONS (WATER YEARS).--WSP 1281: 1943, 1946 (M).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY         | OCT           | NOV      | DEC        | JAN    | FEB       | MAR      | APR    | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|---------------|----------|------------|--------|-----------|----------|--------|-------|-------|-------|-------|-------|
| 1           | 71            | 74       | 160        | 205    | 1,000     | 250      | 482    | 114   | 177   | 66    | 139   | 144   |
| 2           | 61            | 63       | 123        | 710    | 2,670     | 245      | 2,520  | 113   | 323   | 67    | 117   | 133   |
| 3           | 56            | 60       | 102        | 2,290  | 1,300     | 240      | 733    | 112   | 111   | 67    | 100   | 166   |
| 4           | 56            | 545      | 295        | 900    | 790       | 235      | 652    | 113   | 88    | 75    | 94    | 133   |
| 5           | 55            | 2,590    | 135        | 500    | 350       | 230      | 505    | 111   | 95    | 63    | 92    | 123   |
| 6           | 55            | 230      | 83         | 320    | 3,200     | 225      | 430    | 110   | 97    | 200   | 91    | 115   |
| 7           | 55            | 126      | 67         | 1,000  | 3,040     | 220      | 401    | 105   | 76    | 127   | 87    | 111   |
| 8           | 55            | 1,870    | 63         | 530    | 1,100     | 215      | 377    | 110   | 71    | 91    | 91    | 174   |
| 9           | 55            | 680      | 61         | 150    | 700       | 210      | 347    | 93    | 71    | 80    | 87    | 230   |
| 10          | 61            | 199      | 61         | 133    | 350       | 210      | 322    | 90    | 74    | 76    | 85    | 130   |
| 11          | 56            | 111      | 61         | 4,790  | 310       | 300      | 308    | 101   | 65    | 72    | 85    | 119   |
| 12          | 55            | 81       | 61         | 1,610  | 270       | 831      | 5,830  | 93    | 65    | 69    | 85    | 113   |
| 13          | 55            | 71       | 61         | 610    | 260       | 423      | 22,000 | 82    | 61    | 68    | 92    | 126   |
| 14          | 64            | 67       | 60         | 275    | 350       | 360      | 5,430  | 80    | 60    | 99    | 96    | 193   |
| 15          | 69            | 67       | 60         | 175    | 1,600     | 330      | 1,550  | 77    | 59    | 193   | 89    | 123   |
| 16          | 62            | 66       | 60         | 155    | 1,180     | 300      | 928    | 79    | 60    | 101   | 89    | 115   |
| 17          | 83            | 66       | 60         | 135    | 900       | 280      | 700    | 74    | 61    | 91    | 92    | 111   |
| 18          | 64            | 64       | 58         | 470    | 580       | 270      | 415    | 74    | 60    | 95    | 108   | 104   |
| 19          | 60            | 64       | 78         | 1,000  | 400       | 260      | 310    | 74    | 62    | 83    | 147   | 96    |
| 20          | 57            | 66       | 362        | 2,790  | 354       | 250      | 210    | 72    | 86    | 77    | 108   | 91    |
| 21          | 55            | 605      | 78         | 727    | 563       | 738      | 180    | 95    | 75    | 74    | 100   | 91    |
| 22          | 55            | 121      | 60         | 660    | 623       | 449      | 160    | 333   | 67    | 103   | 92    | 89    |
| 23          | 54            | 74       | 60         | 1,920  | 402       | 407      | 170    | 179   | 166   | 83    | 92    | 83    |
| 24          | 54            | 69       | 2,660      | 3,930  | 350       | 380      | 160    | 101   | 226   | 81    | 92    | 81    |
| 25          | 54            | 2,430    | 8,200      | 3,400  | 310       | 370      | 150    | 88    | 98    | 163   | 94    | 81    |
| 26          | 54            | 705      | 3,540      | 3,400  | 280       | 852      | 140    | 128   | 89    | 180   | 130   | 85    |
| 27          | 54            | 3,480    | 600        | 1,570  | 270       | 2,800    | 132    | 116   | 84    | 139   | 149   | 81    |
| 28          | 55            | 1,780    | 260        | 5,180  | 260       | 943      | 126    | 91    | 77    | 113   | 160   | 78    |
| 29          | 57            | 424      | 455        | 1,630  | -----     | 648      | 120    | 81    | 74    | 104   | 168   | 78    |
| 30          | 57            | 230      | 700        | 810    | -----     | 511      | 116    | 70    | 69    | 100   | 174   | 74    |
| 31          | 74            | -----    | 305        | 560    | -----     | 443      | -----  | 72    | ----- | 121   | 196   | ----- |
| TOTAL       | 1,828         | 17,078   | 18,989     | 42,575 | 23,762    | 14,425   | 45,904 | 3,231 | 2,847 | 3,121 | 3,421 | 3,471 |
| MEAN        | 59.0          | 569      | 613        | 1,373  | 849       | 465      | 1,530  | 104   | 94.9  | 101   | 110   | 116   |
| MAX         | 83            | 3,480    | 8,200      | 5,180  | 3,200     | 2,800    | 22,000 | 333   | 323   | 200   | 196   | 230   |
| MIN         | 54            | 60       | 58         | 133    | 260       | 210      | 116    | 70    | 59    | 63    | 85    | 74    |
| CFSM        | .32           | 3.13     | 3.37       | 7.54   | 4.66      | 2.55     | 8.41   | .57   | .52   | .55   | .60   | .64   |
| IN.         | .37           | 3.49     | 3.88       | 8.70   | 4.86      | 2.95     | 9.38   | .66   | .58   | .64   | .70   | .71   |
| CAL YR 1973 | TOTAL 200,067 | MEAN 548 | MAX 30,700 | MIN 52 | CFSM 3.01 | IN 40.89 |        |       |       |       |       |       |
| WTR YR 1974 | TOTAL 180,652 | MEAN 495 | MAX 22,000 | MIN 54 | CFSM 2.72 | IN 36.92 |        |       |       |       |       |       |

## PEAK DISCHARGE (BASE, 11,000 CFS)

| DATE  | TIME | G. H. | DISCHARGE | DATE  | TIME | G. H. | DISCHARGE |
|-------|------|-------|-----------|-------|------|-------|-----------|
| 11-05 | 0130 | 12.32 | 11,300    | 01-11 | 1115 | 12.79 | 12,700    |
| 11-27 | 2045 | 13.41 | 14,500    | 01-28 | 1215 | 13.59 | 15,300    |
| 12-25 | 0215 | 17.10 | 29,400    | 04-13 | 0115 | 19.61 | 42,000    |

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, near center of span on downstream side of bridge on State Highway 10, 1.5 miles (2.4 km) upstream from Collins Creek, and 4.0 miles (6.4 km) west of Darlington.

DRAINAGE AREA.--580 mi<sup>2</sup> (1,502 km<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 (44.443 m) above mean sea level. Jan. 13, 1951, to May 28, 1963, water-stage recorder at former channel 700 ft (213 m) 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 (0.911 m) higher.

AVERAGE DISCHARGE.--24 years, 834 ft<sup>3</sup>/s (23.62 m<sup>3</sup>/s), 19.53 in/yr (496 mm/yr).

EXTREMES.--Current year: Maximum discharge, 22,400 ft<sup>3</sup>/s (634 m<sup>3</sup>/s) Apr. 14, gage height, 17.13 ft (5.22 m); minimum, 288 ft<sup>3</sup>/s (8.16 m<sup>3</sup>/s) Aug. 25, minimum gage height, 3.37 ft (1.03 m) Oct. 29, 30.  
Period of record: Maximum discharge, 62,100 ft<sup>3</sup>/s (1,760 m<sup>3</sup>/s) Mar. 25, 1973, gage height, 20.19 ft (6.154 m); minimum, 188 ft<sup>3</sup>/s (5.32 m<sup>3</sup>/s) Oct. 18, 1956.

REMARKS.--Records good.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DAY         | OCT    | NOV     | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1           | 429    | 348     | 1,570  | 825    | 1,290  | 575    | 641    | 470    | 404    | 340    | 342    | 397    |
| 2           | 433    | 336     | 885    | 704    | 2,540  | 559    | 601    | 450    | 1,240  | 337    | 483    | 479    |
| 3           | 429    | 323     | 717    | 1,170  | 6,770  | 544    | 1,090  | 439    | 712    | 334    | 435    | 608    |
| 4           | 397    | 429     | 659    | 3,720  | 4,190  | 530    | 1,490  | 439    | 577    | 334    | 631    | 550    |
| 5           | 363    | 5,460   | 690    | 2,460  | 1,500  | 517    | 835    | 479    | 505    | 337    | 401    | 505    |
| 6           | 351    | 2,090   | 641    | 1,440  | 1,060  | 506    | 599    | 450    | 458    | 340    | 340    | 391    |
| 7           | 342    | 762     | 582    | 1,210  | 3,740  | 495    | 533    | 427    | 439    | 348    | 334    | 360    |
| 8           | 336    | 587     | 524    | 1,470  | 8,540  | 484    | 502    | 404    | 423    | 366    | 369    | 416    |
| 9           | 336    | 1,210   | 488    | 1,150  | 5,840  | 476    | 480    | 391    | 412    | 378    | 363    | 1,300  |
| 10          | 375    | 1,070   | 465    | 880    | 1,700  | 473    | 459    | 388    | 443    | 404    | 334    | 940    |
| 11          | 363    | 735     | 445    | 1,440  | 1,110  | 469    | 446    | 394    | 454    | 375    | 324    | 505    |
| 12          | 372    | 668     | 437    | 5,200  | 912    | 591    | 1,520  | 397    | 420    | 348    | 319    | 420    |
| 13          | 345    | 515     | 429    | 4,880  | 802    | 776    | 5,880  | 385    | 443    | 337    | 319    | 385    |
| 14          | 345    | 457     | 422    | 2,720  | 735    | 601    | 15,900 | 369    | 667    | 337    | 332    | 363    |
| 15          | 342    | 425     | 422    | 1,210  | 740    | 529    | 15,700 | 360    | 514    | 342    | 334    | 348    |
| 16          | 348    | 408     | 415    | 930    | 1,550  | 496    | 8,900  | 357    | 435    | 439    | 326    | 404    |
| 17          | 348    | 394     | 401    | 750    | 1,460  | 479    | 3,140  | 351    | 408    | 401    | 324    | 372    |
| 18          | 339    | 384     | 390    | 726    | 995    | 463    | 1,310  | 348    | 391    | 375    | 332    | 342    |
| 19          | 328    | 375     | 418    | 1,050  | 968    | 457    | 965    | 375    | 420    | 340    | 326    | 329    |
| 20          | 323    | 375     | 850    | 5,110  | 1,040  | 453    | 805    | 348    | 404    | 342    | 319    | 321    |
| 21          | 318    | 810     | 815    | 6,700  | 821    | 481    | 703    | 394    | 375    | 357    | 313    | 316    |
| 22          | 315    | 1,180   | 690    | 4,340  | 2,110  | 522    | 635    | 7,580  | 369    | 342    | 311    | 308    |
| 23          | 313    | 726     | 555    | 1,880  | 1,780  | 490    | 586    | 5,640  | 381    | 351    | 306    | 303    |
| 24          | 310    | 591     | 515    | 4,050  | 1,080  | 475    | 564    | 1,010  | 420    | 337    | 301    | 301    |
| 25          | 310    | 920     | 3,670  | 6,500  | 790    | 471    | 527    | 672    | 381    | 375    | 303    | 303    |
| 26          | 308    | 2,350   | 7,670  | 6,250  | 680    | 501    | 509    | 573    | 360    | 527    | 360    | 334    |
| 27          | 308    | 1,470   | 8,410  | 4,650  | 624    | 1,720  | 487    | 564    | 351    | 416    | 523    | 332    |
| 28          | 305    | 4,360   | 6,220  | 4,110  | 594    | 2,910  | 479    | 500    | 348    | 360    | 658    | 316    |
| 29          | 300    | 8,050   | 2,280  | 7,180  | -----  | 1,980  | 462    | 462    | 345    | 342    | 500    | 308    |
| 30          | 300    | 4,460   | 1,120  | 6,310  | -----  | 1,030  | 466    | 435    | 342    | 329    | 431    | 303    |
| 31          | 320    | -----   | 915    | 2,910  | -----  | 758    | -----  | 408    | -----  | 340    | 385    | -----  |
| TOTAL       | 10,651 | 42,268  | 44,710 | 94,085 | 55,961 | 21,811 | 67,214 | 26,259 | 13,841 | 11,230 | 11,678 | 12,859 |
| MEAN        | 344    | 1,409   | 1,442  | 3,035  | 1,999  | 704    | 2,240  | 847    | 461    | 362    | 377    | 429    |
| MAX         | 433    | 8,050   | 8,410  | 7,180  | 8,540  | 2,910  | 15,900 | 7,580  | 1,240  | 527    | 658    | 1,300  |
| MIN         | 300    | 323     | 390    | 704    | 594    | 453    | 446    | 348    | 342    | 329    | 301    | 301    |
| CFSM        | .59    | 2.43    | 2.49   | 5.23   | 3.45   | 1.21   | 3.86   | 1.46   | .79    | .62    | .65    | .74    |
| IN.         | .68    | 2.71    | 2.87   | 6.03   | 3.59   | 1.40   | 4.31   | 1.68   | .89    | .72    | .75    | .82    |
| CAL YR 1973 | TOTAL  | 526,054 | MEAN   | 1,441  | MAX    | 31,300 | MIN    | 300    | CFSM   | 2.49   | IN     | 33.74  |
| WTR YR 1974 | TOTAL  | 412,567 | MEAN   | 1,130  | MAX    | 15,900 | MIN    | 300    | CFSM   | 1.95   | IN     | 26.46  |

## PEAK DISCHARGE (BASE, 5,000 CFS)

| DATE  | TIME | G.HT. | DISCHARGE | DATE  | TIME | G.HT. | DISCHARGE |
|-------|------|-------|-----------|-------|------|-------|-----------|
| 11-05 | 1415 | 11.36 | 6,430     | 01-30 | 0045 | 12.22 | 7,490     |
| 11-29 | 1230 | 15.22 | 8,810     | 02-03 | 2045 | 12.13 | 7,370     |
| 12-27 | 0200 | 13.21 | 8,790     | 02-08 | 1815 | 13.79 | 9,660     |
| 01-13 | 0130 | 10.79 | 5,750     | 04-14 | 1830 | 17.13 | 22,400    |
| 01-21 | 0500 | 11.88 | 7,060     | 05-22 | 2200 | 15.30 | 12,800    |
| 01-25 | 2400 | 11.77 | 6,920     |       |      |       |           |

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 partial-record stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in a third table.

## 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 1974

| Discharge measurements made at low-flow partial-record stations during water year 1974 |                                                                              |                                                                                                                                                                                                                       |                       |                                    |              |                 |
|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------------|--------------|-----------------|
| Station No.                                                                            | Station name                                                                 | Location                                                                                                                                                                                                              | Drainage area (sq mi) | Period of record                   | Measurements |                 |
|                                                                                        |                                                                              |                                                                                                                                                                                                                       |                       |                                    | Date         | Discharge (cfs) |
| Hatchie River basin                                                                    |                                                                              |                                                                                                                                                                                                                       |                       |                                    |              |                 |
| 07029250                                                                               | Hatchie River near Ripley, Miss.                                             | Lat 34°43'15", long 88°46'01", in W½ sec.22, T.4 S., R.5 E., Chickasaw meridian, Tippah County, at bridge on State Highway 4, 10.5 miles (16.9 km) east of Ripley.                                                    | -                     | 1953, 1955-57, 1960, 1972, 1974    | 10-30-73     | 16.4            |
| 07029260                                                                               | Little Hatchie River near Ripley, Miss. (formerly West Branch Hatchie River) | Lat 34°45'05", long 88°50'01", in N½ sec.12, T.4 S., R.4 E., Chickasaw meridian, Tippah County, at county road bridge 6.5 miles (10.4 km) east of Ripley and 10.5 miles (16.9 km) above mouth.                        | -                     | 1953, 1955-57, 1959, 1974          | 10-30-73     | 16.4            |
| 07029270                                                                               | Hatchie River near Walnut, Miss.                                             | Lat 34°56'37", long 88°47'08", in NW¼ sec.4, T.2 S., R.5 E., Chickasaw meridian, Alcorn County, at bridge on U.S. Highway 72, 6.5 miles (10.4 km) east of Walnut.                                                     | 270                   | 1947-59a, 1959-60, 1974            | 10-29-73     | 141             |
| 07029415                                                                               | Muddy Creek at Walnut, Miss.                                                 | Lat 34°57'10", long 88°52'40", on line between secs.33 and 34, T.1 S., R.4 E., Chickasaw meridian, Tippah County, at bridge on U.S. Highway 72, 1 mile (1.6 km) east of Walnut.                                       | -                     | 1955-57, 1959-60, 1972, 1974       | 10-29-73     | 8.60            |
| Wolf River basin                                                                       |                                                                              |                                                                                                                                                                                                                       |                       |                                    |              |                 |
| 07030380                                                                               | Grays Creek near Springhill, Miss.                                           | Lat 34°56'48", long 89°16'22", on line between secs.35 and 2 on line between T.1 S., and T.2 S., Chickasaw meridian, Benton County, at bridge on U.S. Highway 72, 3.5 miles (5.6 km) northwest of Springhill.         | 22.6                  | 1953, 1955-57, 1959, 1974          | 10-26-73     | 10.0            |
| 07030390                                                                               | Grays Creek near Michigan City, Miss.                                        | Lat 34°58'00", long 89°16'27", in SW¼ (corrected) sec.26, T.1 S., R.1 W., Chickasaw meridian, Benton County, at bridge on State Highway 7, 1.2 miles (1.9 km) southwest of Michigan City.                             | -                     | 1955-57, 1959-60, 1974             | 10-26-73     | 14.9            |
| Yazoo River basin                                                                      |                                                                              |                                                                                                                                                                                                                       |                       |                                    |              |                 |
| 07269500                                                                               | Tippah Drainage Canal near Blue Mountain, Miss.                              | Lat 34°41'26", long 89°00'00", in SW¼ sec.33, T.4 S., R.3 E., Chickasaw meridian, Tippah County, at bridge 2.2 miles (3.5 km) north of Blue Mountain, and 3.5 miles (5.6 km) southwest of Ripley on State Highway 15. | 18.4                  | 1939, 1953, 1955-57, 1959-61, 1974 | 10-30-73     | 6.09            |

Discharge measurements made at low-flow partial-record stations during water year 1974--Continued

| Station No.                  | Station name                              | Location                                                                                                                                                                                                  | Drainage area (sq mi) | Period of record                | Measurements |                 |
|------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------|--------------|-----------------|
|                              |                                           |                                                                                                                                                                                                           |                       |                                 | Date         | Discharge (cfs) |
| Yazoo River basin--Continued |                                           |                                                                                                                                                                                                           |                       |                                 |              |                 |
| 07269700                     | Yellow Rabbit Creek near Ashland, Miss.   | Lat 34°45'22", long 89°08'50", in N¼ sec.12, T.4 S., R.1 E., Chickasaw meridian, Benton County, at bridge on State Highway 4, 0.5 mile (0.8 km) upstream from mouth, and 5 miles (8 km) south of Ashland. | b11                   | 1953, 1955-57, 1959, 1961, 1974 | 10-30-73     | 9.48            |
| 07269880                     | Tippah Creek near Potts Camp, Miss.       | Lat 34°39'38", long 89°18'52", in SE¼ sec.9, T.5 S., R.1 W., Chickasaw meridian, Marshall County, at bridge on U.S. Highway 78, 1.2 miles (1.9 km) northwest of Potts Camp.                               | -                     | 1955-56, 1958-59, 1974          | 10-25-73     | 112             |
| 07270520                     | Big Spring Creek near Holly Spring, Miss. | Lat 34°42'40", long 89°23'35", in NE¼ sec.27, T.4 S., R.2 W., Chickasaw meridian, Marshall County, 5 miles (8 km) southeast of Holly Springs.                                                             | -                     | 1972, 1974                      | 10-25-73     | 5.94            |
| 07270600                     | Little Spring Creek at Malone, Miss.      | Lat 34°34'32", long 89°28'30", in E½ sec.11, T.6 S., R.3 W., Chickasaw meridian, Marshall County, at bridge 300 ft (91 m) east of State Highway 7 at Malone.                                              | -                     | 1955-56, 1959, 1972, 1974       | 10-24-73     | 46.3            |

a Records in files of Corps of Engineers, Memphis district.

b Approximately.



## 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 1974

| Station No.        | Station name                               | Location                                                                                                                                                                                                                                                                                | Drainage area (sq mi) | Period of record            | Annual maximum |                    |                  |
|--------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------|----------------|--------------------|------------------|
|                    |                                            |                                                                                                                                                                                                                                                                                         |                       |                             | Date           | Gage height (feet) | Dis-charge (cfs) |
| Mobile River basin |                                            |                                                                                                                                                                                                                                                                                         |                       |                             |                |                    |                  |
| 02430500           | Tombigbee River near Marietta, Miss.       | Lat 34°26', long 88°25', in SE¼ sec.35, T.7 S., R.8 E., Chickasaw meridian, Itawamba County at bridge on county highway, half a mile downstream from confluence of Browns Creek Canal and Mackeys Creek, 3 miles upstream from Donovan Creek Canal, and 6 miles south-east of Marietta. | 307                   | 1937-50†, 1968-74           | 1-11-74        | 11.84              | 18,000           |
| 02432900           | Red Boot Creek near Fulton, Miss.          | Lat 34°19'10", long 88°19'30", in NE¼SE¼NW¼ sec.11, T.9 S., R.9 E., Chickasaw meridian, Itawamba County, at culvert on State Highway 25, 4.4 miles north of junction of State Highway 25 and U.S. Highway 78 near Fulton. Prior to Oct. 1, 1964, at datum 12.24 ft lower.               | .13                   | 1955-74                     | 1-24-74        | 5.61               | 88               |
| 02434000           | Town Creek at Tupelo, Miss.                | Lat 34°17'40", long 88°42'35", in SW¼SE¼ sec.18, T.9 S., R.6 E., Chickasaw meridian, Lee County, on U.S. Highway 45, 0.5 mile north of city limits of Tupelo. Prior to 1971 at datum 0.4 ft higher.                                                                                     | 110                   | 1944-46†, 1952-70†, 1971-74 | 1-11-74        | 21.35              | 6,190            |
| 02434500           | Euclautubba Creek at Saltillo, Miss.       | Lat 34°22'20", long 88°42'00", in SW¼NW¼ sec.20, T.8 S., R.6 E., Chickasaw meridian, Lee County, at bridge on U.S. Highway 45 at Saltillo, 0.2 mile below Flat Creek, and 2.2 miles above mouth.                                                                                        | 19.2                  | 1952-67†, 1968-74           | 11-27-73       | 12.92              | 2,410            |
| 02435300           | Cow Pike Pass near Tupelo, Miss.           | Lat 34°16'00", long 88°37'10", in SW¼SE¼SE¼ sec.25, T.9 S., R.6 E., Chickasaw meridian, Lee County, at culvert on U.S. Highway 78, 5.5 miles east of Tupelo. Prior to Oct. 1, 1964, at datum 2.81 ft lower.                                                                             | .14                   | 1955-74                     | 11-26-73       | 5.10               | 95               |
| 02435400           | Clear Branch near Tupelo, Miss.            | Lat 34°15'30", long 88°39'50", in SW¼SE¼NW¼ sec.34, T.9 S., R.6 E., Chickasaw meridian, Lee County, at culvert on U.S. Highway 78, 1.3 miles east of Tupelo.                                                                                                                            | .75                   | 1955-74                     | 11-26-73       | 4.74               | 119              |
| 02435800           | Coonewah Creek at Shannon, Miss.           | Lat 34°08'15", long 88°43'12", in SE¼ sec.12, T.11 S., R.5 E., Chickasaw meridian, Lee County, on U.S. Highway 45, 1 mile north of Shannon and 4.5 miles upstream from mouth.                                                                                                           | 53.0                  | 1953-74                     | 11-27-73       | 16.48              | 3,150            |
| 02435920           | Cotton Gin Branch near Tupelo, Miss.       | Lat 34°14'10", long 88°50'20", in SE¼SW¼SW¼ sec.1, T.10 S., R.4 E., Chickasaw meridian, Lee County, at culvert on State Highway 6, 7.5 miles west of Tupelo. Prior to Oct. 1, 1964, at datum 12.74 ft lower.                                                                            | .30                   | 1955-74                     | 1-22-74        | 4.24               | 123              |
| 02435930           | Shell Creek near Tupelo, Miss.             | Lat 34°14', long 88°49', in NW¼SE¼SW¼ sec.6, T.10 S., R.5 E., Chickasaw meridian, Lee County, at culvert on State Highway 6, 6.6 miles west of Tupelo. Prior to Oct. 1, 1964, at datum 11.48 ft lower.                                                                                  | .20                   | 1955-74                     | 1-22-74        | 4.33               | 74               |
| 02436000           | Chiwapa Creek at Shannon, Miss.            | Lat 34°06'35", long 88°43'25", in SE¼ sec.24, T.11 S., R.5 E., Chickasaw meridian, Lee County, at bridge on U.S. Highway 45W at Shannon, and 0.7 mile above Gulf, Mobile and Ohio Railroad bridge.                                                                                      | 144                   | 1952-67†, 1968-74           | 1-25-74        | 9.65               | 13,400           |
| 02437300           | Mattubby Creek near Aberdeen, Miss.        | Lat 33°52', long 88°36', in SE¼SE¼ sec.7, T.14 S., R.7 E., Chickasaw meridian, Monroe County, at bridge on U.S. Highway 45, 1.5 miles above Wolf River, and 4 miles northwest of Aberdeen.                                                                                              | 92.0                  | 1937, 1952-74               | 11-27-73       | 93.90              | (†)              |
| 02437550           | Nichols Creek tributary near Quincy, Miss. | Lat 33°54'20", long 88°21'05", in SE¼ sec.29, T.13 S., R.10 E., Huntsville meridian, Monroe County, at culvert on U.S. Highway 278, 1.0 mile southeast of Quincy.                                                                                                                       | .54                   | 1967-74                     | 11-26-73       | 4.62               | 125              |

See footnotes at end of table.

Annual maximum discharge at crest-stage partial-record stations during water year 1974--Continued

| Station No.                   | Station name                                      | Location                                                                                                                                                                                                             | Drainage area (sq mi) | Period of record  | Annual maximum |                    |                  |
|-------------------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------|----------------|--------------------|------------------|
|                               |                                                   |                                                                                                                                                                                                                      |                       |                   | Date           | Gage height (feet) | Dis-charge (cfs) |
| Mobile River basin--Continued |                                                   |                                                                                                                                                                                                                      |                       |                   |                |                    |                  |
| 02437600                      | James Creek at Aberdeen, Miss.                    | Lat 38°48'45", long 88°34'00", in SW¼SE¼ sec.33, T.14 S., R.7 E., Chickasaw meridian, Monroe County, at bridge on State Highway 25, 0.4 mile southwest of Aberdeen.                                                  | 28.9                  | 1964-68†, 1969-74 | 11-27-73       | 13.75              | 2,280            |
| 02439800                      | Cowbell Creek near Houlka, Miss.                  | Lat 34°04'10", long 89°00'20", in NW¼SE¼NE¼ sec.5, T.12 S., R.3 E., Chickasaw meridian, Chickasaw County, at culvert on State Highway 15, 1.75 miles north of Houlka. Prior to Oct. 1, 1964, at datum 1.61 ft lower. | .46                   | 1955-74           | 12-25-73       | 5.97               | 228              |
| 02439980                      | Chuquatonchee Creek near Okolona, Miss.           | Lat 34°00'05", long 88°53'00", in NE¼ sec.33, T.12 S., R.4 E., Chickasaw meridian, Chickasaw County, at bridge on State Highway 32, 7.5 miles west of Okolona.                                                       | 68.5                  | 1963-68†, 1969-74 | 11-27-73       | (g)                | (†)              |
| 02440000                      | Chuquatonchee Creek near Egypt, Miss.             | Lat 33°50'30", long 88°46'30", on line between secs.22 and 27, T.14 S., R.5 E., Chickasaw meridian, Chickasaw County, at bridge on State Highway 8, 4.5 miles southwest of Egypt.                                    | 170                   | 1952-73†, 1974    | 11-27-73       | 13.61              | 9,580            |
| 02440020                      | Chuquatonchee Creek tributary near Trebloc, Miss. | Lat 33°50'25", long 88°48'20", on line between SW¼ sec.20 and NW¼ sec.29, T.14 S., R.5 E., Chickasaw meridian, Chickasaw County, at culvert on State Highway 8, 1.5 miles east of Trebloc.                           | .72                   | 1967-74           | 11-27-73       | 7.98               | 405              |
| 02440400                      | Houlka Creek near McCondy, Miss.                  | Lat 33°47'05", long 88°51'15", in SE¼SW¼ sec.11, T.15 S., R.4 E., Chickasaw meridian, Clay County, at bridge on State Highway 47, 2.8 miles south of McCondy.                                                        | 185                   | 1963-68†, 1969-74 | 11-28-73       | 15.03              | 11,200           |
| 02440500                      | Chuquatonchee Creek near West Point, Miss.        | 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, at bridge on State Highway 50, 3 miles west of West Point.                                           | 514                   | 1944-73†, 1974    | 11-29-73       | 19.20              | 17,000           |
| 02440600                      | Line Creek near Maben, Miss.                      | Lat 33°39', long 89°04', in S¼ sec.26, T.16 S., R.2 E., Chickasaw meridian, Webster County, at bridge on State Highway 15, 1,000 ft below Gulf, Mobile and Ohio Railroad, and 7 miles north of Maben.                | 6.5                   | 1952-74           | 11-27-73       | 21.77              | 3,230            |
| 02440800                      | Trim Cane Creek near Starkville, Miss.            | Lat 33°28', long 88°55', in W¼ sec.35, T.19 N., R.13 E., Choctaw meridian, Oktibbeha County, at bridge on U.S. Highway 82, 3 miles above Biba Wila Creek, and 6 miles west of Starkville.                            | 39.6                  | 1952-74           | 1-11-74        | 21.56              | 2,780            |
| 02441220                      | Sand Creek tributary near Mayhew, Miss.           | Lat 33°28'40", long 88°43'20", on line between SW¼ sec.27 and NW¼ sec.34, T.19 N., R.15 E., Choctaw meridian, Oktibbeha County, on U.S. Highway 82, 3.7 miles west of Mayhew.                                        | .44                   | 1966-74           | 1-11-74        | 5.27               | 146              |
| 02441300                      | Catalpa Creek at Mayhew, Miss.                    | Lat 33°28'50", long 88°37'45", in NE¼SW¼ sec.28, T.19 N., R.16 E., Choctaw meridian, Lowndes County, at bridge on U.S. Highway 82, 0.5 mile east of Mayhew.                                                          | 98.2                  | 1963-68†, 1969-74 | 4-13-74        | 17.82              | 6,340            |
| 02443605                      | Mayo Slough tributary near Columbus, Miss.        | Lat 33°28'40", long 88°31'05", on line between SE¼ sec.28 and NE¼ sec.33, T.19 N., R.17 E., Choctaw meridian, Lowndes County, at 8 x 4 foot box culvert on U.S. Highway 82, 5 miles west of Columbus.                | .24                   | 1965-74           | 11-27-73       | 4.91               | 134              |
| 02443700                      | Cedar Creek near Brooksville, Miss.               | Lat 33°20'00", long 88°32'30", in SW¼ sec.17, T.17 N., R.17 E., Choctaw meridian, Lowndes County, at 10 x 6 foot box culvert on U.S. Highway 45, 7.5 miles north of Brooksville.                                     | .49                   | 1965-74           | 11-27-73       | 6.91               | 368              |
| 02447220                      | Bogue Fallah Creek tributary near Ackerman, Miss. | Lat 33°20'10", long 89°07'10", in SW¼ sec.14, T.17 N., R.11 E., Choctaw meridian, Choctaw County, on State Highway 12, 4.1 miles northeast of Ackerman.                                                              | .34                   | 1966-74           | 1-11-74        | 4.20               | 83               |

Annual maximum discharge at crest-stage partial-record stations during water year 1974--Continued

| Station No.                   | Station name                                       | Location                                                                                                                                                                                      | Drainage area (sq mi) | Period of record  | Annual maximum |                    |                  |
|-------------------------------|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------|----------------|--------------------|------------------|
|                               |                                                    |                                                                                                                                                                                               |                       |                   | Date           | Gage height (feet) | Dis-charge (cfs) |
| Mobile River basin--Continued |                                                    |                                                                                                                                                                                               |                       |                   |                |                    |                  |
| 02447280                      | Lawson Branch near Betheden, Miss.                 | Lat 33°15'40", long 88°56'50", in NW¼NW¼ sec.11, T.16 N., R.13 E., Choctaw meridian, Winston County, on State Highway 25, 3.4 miles north of Betheden.                                        | 1.11                  | 1966-74           | 1-11-74        | 5.77               | 320              |
| 02447340                      | Cypress Creek tributary at Bradley, Miss.          | Lat 33°22'20", long 88°59'00", in NE¼NE¼ sec.1, T.17 N., R.12 E., Choctaw meridian, Oktibbeha County, on State Highway 12, 0.3 mile southwest of Bradley.                                     | .60                   | 1966-74           | 1-11-74        | 4.40               | 57               |
| 02448620                      | Flat Scooba Creek tributary near Scooba, Miss.     | Lat 32°50'20", long 88°28'10", in SE¼ sec.32 T.12 N., R.18 E., Choctaw meridian, Kemper County, at culvert on U.S. Highway 45, 0.8 mile north of Scooba.                                      | .44                   | 1967-74           | 4-13-74        | 6.71               | 239              |
| 02467100                      | Hamilton Branch near DeKalb, Miss.                 | Lat 32°47'30", long 88°35'40", in NE¼ sec.19, T.11 N., R.17 E., Choctaw meridian, Kemper County, at 16 x 6 foot culvert on State Highway 16, 4.2 miles northeast of DeKalb.                   | .97                   | 1965-74           | 4-13-74        | 7.58               | 662              |
| 02469672                      | Little Okatuppa Creek near Quitman, Miss.          | Lat 32°05'00", long 88°27'10", in NW¼SE¼ sec.21, T.3 N., R.18 E., Choctaw meridian, Clarke County, on State Highway 18, 17.6 miles east of Quitman.                                           | 4.35                  | 1966-74           | 8-13-74        | 6.32               | 800              |
| Pascagoula River basin        |                                                    |                                                                                                                                                                                               |                       |                   |                |                    |                  |
| 02471100                      | Leaf River near Raleigh, Miss.                     | Lat 32°00'47", long 89°25'58", in SE¼SE¼NW¼ sec.13, T.2 N., R.8 E., Choctaw meridian Smith County, at bridge on State Highway 18, 6 miles east of Raleigh.                                    | 143                   | 1940-43 , 1957-74 | 4-13-74        | 303.11             | 17,000           |
| 02471250                      | Leaf River at Taylorsville, Miss.                  | 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, on State Highway 28, 1 mile east of Taylorsville.                       | 466                   | 1968-74           | 4-14-74        | 257.44             | 31,600           |
| 02471500                      | Oakhay Creek at Mize, Miss.                        | Lat 31°52', long 89°33', in NW¼ sec.6, T.10 N., R.15 W., St. Stephens meridian, Smith County, on State Highway 28, at Mize.                                                                   | 171                   | 1943-49†, 1968-74 | 4-13-74        | 17.26              | 28,900           |
| 02472160                      | Big Creek tributary near Laurel, Miss.             | Lat 31°41'20", long 89°19'35", in NE¼SW¼ sec.5, T.8 N., R.13 W., St. Stephens meridian, Jones County, on U.S. Highway 84, 11.4 miles west of Laurel.                                          | .17                   | 1966-74           | 12-25-73       | 5.66               | 158              |
| 02472420                      | Bowie Creek near Sanford, Miss.                    | Lat 31°28'20", long 89°31'20", in NE¼ sec.20, T.6 N., R.15 W., St. Stephens meridian, Covington County, at bridge on State Highway 589, 5.0 miles southwest of junction with U.S. Highway 49. | 262                   | 1968-74           | 4-13-74        | 222.22             | (†)              |
| 02472700                      | Okatoma Creek tributary at Mt. Olive, Miss.        | Lat 31°46', long 89°38', in NE¼ sec.7, T.9 N., R.16 W., St. Stephens meridian, Covington County, at double 6 x 4 foot box culvert on State Highway 532, 0.3 mile east of Mt. Olive.           | .33                   | 1965-74           | 4-13-74        | 6.21               | 318              |
| 02472810                      | Okatoma Creek tributary No. 2 near Collins, Miss.  | Lat 31°36'30", long 89°32'00", in SW¼ sec.32, T.8 N., R.15 W., St. Stephens meridian, Covington County, at culvert on U.S. Highway 49, 1.6 miles south of Collins.                            | .21                   | 1967-74           | 5-22-74        | 7.00               | 206              |
| 02473047                      | Gordon Creek at Broad Street at Hattiesburg, Miss. | Lat 31°19'42", long 89°18'14", in NW¼NE¼ sec.9, T.4 N., R.13 W., St. Stephens meridian, Forrest County, at bridge on Broad Street in Hattiesburg.                                             | 8.83                  | 1969-74           | 4-13-74        | 158.88             | 2,710            |
| 02473460                      | Tallahala Creek at Waldrup, Miss.                  | Lat 31°57'30", long 89°06'50", in SW¼ sec.31, T.2 N., R.12 E., Choctaw meridian, Jasper County, at bridge on State Highway 528, 0.8 mile west of Waldrup.                                     | 100                   | 1969-74           | 4-13-74        | 313.18             | 17,900           |

Annual maximum discharge at crest-stage partial-record stations during water year 1974--Continued

| Annual maximum discharge at crest-stage partial-record stations during water year 1974 continued |                                                        |                                                                                                                                                                                                                                          |                       |                   |                     |                    |                  |
|--------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------|---------------------|--------------------|------------------|
| Station No.                                                                                      | Station name                                           | Location                                                                                                                                                                                                                                 | Drainage area (sq mi) | Period of record  | Annual maximum      |                    |                  |
|                                                                                                  |                                                        |                                                                                                                                                                                                                                          |                       |                   | Date                | Gage height (feet) | Dis-charge (cfs) |
| Pascagoula River basin--Continued                                                                |                                                        |                                                                                                                                                                                                                                          |                       |                   |                     |                    |                  |
| 02473480                                                                                         | Tallahattah Creek near Waldrup, Miss.                  | Lat 31°51'40", long 89°05'10", in NW¼SE¼ sec.3, T.10 N., R.11 W., St. Stephens meridian, Jasper County, on paved county road, 8.7 miles south of Waldrup.                                                                                | 30.7                  | 1965-70†, 1971-74 | 4-13-74             | 18.14              | (†)              |
| 02473850                                                                                         | Tallahoma Creek tributary at Lake Como, Miss.          | Lat 31°57'40", long 89°12'20", on line between SE¼ sec.31, and NE¼ sec.6, T.2 N., R.11 E., Choctaw meridian, Jasper County, at culvert on State Highway 528, 0.5 mile east of Lake Como.                                                 | 3.21                  | 1966-74           | 4-12-74             | 9.34               | 1,780            |
| 02474650                                                                                         | Buck Creek near Runnelstown, Miss.                     | Lat 31°21'50", long 89°02'55", in SE¼ sec.25, T.5 N., R.11 W., St. Stephens meridian, Perry County, at bridge on State Highway 42, 2.5 miles above mouth, and 3.7 miles east of Runnelstown.                                             | 19.1                  | 1951-74           | 4-13-74             | 87.02              | (†)              |
| 02475050                                                                                         | Waterfall Branch near McLain, Miss.                    | Lat 31°07'10", long 88°45'25", in SW¼NE¼SE¼ sec.23, T.2 N., R.8 W., St. Stephens meridian, Greene County, at culvert on State Highway 57, 4.2 miles east of McLain. Prior to Oct. 1, 1964, at datum 0.72 ft lower.                       | .65                   | 1955-74           | 4-13-74             | 6.86               | 281              |
| 02475220                                                                                         | Little Rock Creek tributary near Little Rock, Miss.    | Lat 32°31', long 89°01', in NW¼ sec.30, T.8 N., R.13 E., Choctaw meridian, Newton County, at 6 x 5 foot box culvert on State Highway 494, 1.2 miles southeast of Little Rock.                                                            | .22                   | 1965-74           | 4-13-74             | 4.29               | 72               |
| 02477050                                                                                         | Souinlovey Creek near Baxter, Miss.                    | Lat 32°13', long 89°08', in NE¼ sec.3, T.4 N., R.11 E., Choctaw meridian, Jasper County, at 10 x 8 foot box culvert on State Highway 15, 2.6 miles north of Baxter.                                                                      | 1.14                  | 1965-74           | 4-12-74             | 10.13              | 678              |
| 02477090                                                                                         | Powers Creek near Rose Hill, Miss.                     | Lat 32°07', long 89°02', in NE¼ sec.11, T.3 N., R.12 E., Choctaw meridian, Jasper County, at double 5 x 5 foot culvert on State Highway 18, 3.0 miles southwest of Rose Hill.                                                            | .45                   | 1965-74           | 4-12-74             | 6.73               | 319              |
| 02477330                                                                                         | Shubuta Creek near Shubuta, Miss.                      | Lat 31°53', long 88°44', in NW¼ sec.35, T.1 N., R.15 E., Choctaw meridian, Clarke County, at county highway, 1.5 miles northwest of Shubuta, and 5 miles above mouth.                                                                    | 95                    | 1963-74           | 4-25-73<br>12-25-73 | 19.39<br>22.03     | 4,650<br>8,540   |
| 02478600                                                                                         | Granny Branch at Piave, Miss.                          | Lat 31°23'30", long 88°44'50", in SE¼ sec.13, T.5 N., R.8 W., St. Stephens meridian, Greene County, at culvert on State Highway 63, 0.3 mile southwest of Piave.                                                                         | .69                   | 1967-74           | 8-13-74             | 5.69               | 225              |
| 02479094                                                                                         | Blown Pine Creek near Hattiesburg, Miss.               | Lat 31°18'10", long 89°31'00", on line between SW¼ sec.16 and NW¼ sec.21, T.4 N., R.15 W., St. Stephens meridian, Lamar County, at culvert on U.S. Highway 98, 11.3 miles west of intersection of U.S. Highway 49 and 98 in Hattiesburg. | 1.60                  | 1967-74           | 12-25-73            | 6.40               | 574              |
| 02479138                                                                                         | Walls Creek tributary near Brooklyn, Miss.             | Lat 31°06'15", long 89°13'05", in NW¼NE¼SE¼ sec.29, T.2 N., R.12 W., St. Stephens meridian, Forrest County, on U.S. Highway 49, 3.4 miles northwest of Brooklyn.                                                                         | .37                   | 1966-74           | 4-13-74             | 10.39              | 490              |
| 02479165                                                                                         | Mosquito Branch at Benndale, Miss.                     | Lat 30°51'40", long 88°49'30", in SW¼NE¼ sec.19, T.2 S., R.8 W., St. Stephens meridian, George County, at State Highway 26, 1.0 mile west of Benndale. Prior to Oct. 1, 1964, at datum 0.99 ft higher.                                   | .22                   | 1955-74           | 12-26-73            | 3.73               | 55               |
| 02479187                                                                                         | Red Creek tributary near Wiggins, Miss.                | Lat 30°50'55", long 89°13'40", in SW¼NE¼NE¼ sec.30, T.2 S., R.12 W., St. Stephens meridian, Stone County, on State Highway 26, 5.3 miles west of Wiggins.                                                                                | .22                   | 1966-74           | 4-13-74             | 5.22               | 113              |
| 02479260                                                                                         | Bluff Creek tributary near Whites Cross-<br>ing, Miss. | Lat 30°51'10", long 88°57'30", in NE¼SW¼SE¼ sec.23, T.2 S., R.10 W., St. Stephens meridian, Stone County, on State Highway 26, 5.0 miles east of Whites Crossing.                                                                        | .82                   | 1966-74           | 11- 5-73            | 7.44               | 846              |

Annual maximum discharge at crest-stage partial-record stations during water year 1974--Continued

| Station No.                       | Station name                                        | Location                                                                                                                                                                                                                                        | Drainage area (sq mi) | Period of record          | Annual maximum     |                    |                  |
|-----------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------|--------------------|--------------------|------------------|
|                                   |                                                     |                                                                                                                                                                                                                                                 |                       |                           | Date               | Gage height (feet) | Dis-charge (cfs) |
| Pascagoula River basin--Continued |                                                     |                                                                                                                                                                                                                                                 |                       |                           |                    |                    |                  |
| 02480150                          | Franklin Creek near Grand Bay, Ala.                 | Lat 30°28'10", long 88°23'10", in NW¼ sec.4, T.7 S., R.4 W., St. Stephens meridian, Mobile County, at bridge on county highway, 0.9 mile east of Miss.-Ala. State line, 2.6 miles west of Grand Bay, Ala., and 3.1 miles upstream from mouth.   | 16.4                  | 1959-74                   | 2- 7-74            | 15.29              | 945              |
| Tchoutacabouffa River basin       |                                                     |                                                                                                                                                                                                                                                 |                       |                           |                    |                    |                  |
| 02480500                          | Tuxachanie Creek near Biloxi, Miss.                 | Lat 30°31'35", long 88°54'40", in SE¼NW¼ sec. 20, T.6 S., R.9 W., St. Stephens meridian, Harrison County, at bridge on State Highway 15, 7 miles north of city limits of Biloxi.                                                                | 92.3                  | 1944-52, 1952-71, 1972-74 | 9-13-73<br>2- 7-74 | 20.66<br>14.47     | 13,600<br>3,980  |
| Biloxi River basin                |                                                     |                                                                                                                                                                                                                                                 |                       |                           |                    |                    |                  |
| 02481130                          | Biloxi River near Lyman, Miss.                      | Lat 30°29'18", long 89°02'09", in SE¼SE¼ sec. 25, T.6 S., R.11 W., St. Stephens meridian, Harrison County, on downstream side of left pier of bridge on county highway, 1.2 miles downstream from Little Biloxi River, 4.6 miles east of Lyman. | 250.74                | 1965-74                   |                    | 17.53              | 8,410            |
| Wolf River basin                  |                                                     |                                                                                                                                                                                                                                                 |                       |                           |                    |                    |                  |
| 02481505                          | Mill Creek tributary near Lizana, Miss.             | Lat 30°35'50", long 89°19'10", in NW¼ sec.20, T.5 S., R.13 W., St. Stephens meridian, Harrison County, at culvert on State Highway 53, 6.4 miles northwest of Lizana.                                                                           | 2.29                  | 1967-74                   | 4-13-74            | 6.97               | 860              |
| Pearl River basin                 |                                                     |                                                                                                                                                                                                                                                 |                       |                           |                    |                    |                  |
| 02481900                          | Coonshuck Creek tributary near House, Miss.         | Lat 32°39', long 89°01', in NW¼ sec.12, T.9 N., R.12 E., Choctaw meridian, Neshoba County, at a double 5 x 4 foot box culvert on State Highway 19, 2.3 miles northwest of House, and 9.3 miles southeast of Philadelphia.                       | 0.20                  | 1965-74                   | 4-13-74            | 4.50               | 124              |
| 02482100                          | Indian Branch near Edinburg, Miss.                  | Lat 32°46'50", long 89°25'30", in NW¼NE¼ sec.25, T.11 N., R.8 E., Choctaw meridian, Leake County, on State Highway 16, 5.4 miles west of Edinburg.                                                                                              | 1.92                  | 1966-74                   | 12-25-73           | 5.07               | 678              |
| 02482310                          | Lobutch Creek tributary at Wamba, Miss.             | Lat 33°02', long 89°27', in NW¼ sec.35, T.14 N., R.8 E., Choctaw meridian, Attala County, at 10 x 10 foot box culvert on State Highway 19, 0.3 mile west of Wamba.                                                                              | .94                   | 1965-74                   | 12-25-73           | 7.13               | 425              |
| 02482900                          | Tallabogue Creek tributary near Harpersville, Miss. | Lat 32°32'00", long 89°28'40", in SW¼SE¼ sec.16, T.8 N., R.8 E., Choctaw meridian, Scott County, on State Highway 35, 2.8 miles north of Harpersville.                                                                                          | .12                   | 1966-74                   | 4-12-74            | 5.23               | 87               |
| 02483890                          | Yockanookany River tributary near McCool, Miss.     | Lat 33°10', long 89°25', in SW¼ sec.7, T.15 N., R.9 E., Choctaw meridian, Attala County, at double 6 x 4 foot box culvert on State Highway 12, 4 miles southwest of McCool.                                                                     | .34                   | 1965-74                   | 8-13-74            | 4.06               | 139              |
| 02484750                          | Red Cane Creek tributary near Pisgah, Miss.         | 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, at 54-inch circular pipe on State Highway 43, 4.1 miles east of Pisgah.                                                | .10                   | 1965-74                   | 12-25-73           | 6.10               | 103              |
| 02485380                          | Hollybush Creek tributary No. 1 near Pisgah, Miss.  | Lat 32°26'00", long 89°48'50", in NW¼ sec.20 T.7 N., R.5 E., Choctaw meridian, Rankin County, at 8 x 6 foot box culvert on State Highway 43, 7.2 miles southeast of Pisgah.                                                                     | .59                   | 1965-74                   | 12-25-73           | 6.75               | 330              |
| 02485385                          | Hollybush Creek tributary No. 2 near Pisgah, Miss.  | Lat 32°25'40", long 89°48'55", in SW¼ sec.20, T.7 N., R.5 E., Choctaw meridian, Rankin County, at 8 x 4 foot box culvert on State Highway 43, 7.6 miles southeast of Pisgah.                                                                    | .25                   | 1965-74                   | 12-25-73           | 5.36               | 175              |



Annual maximum discharge at crest-stage partial-record stations during water year 1974--Continued

| Annual maximum discharge at crest stage partial record stations during water year 1974--Continued |                                               |                                                                                                                                                                                                                                                                                                                                                       |                       |                   |                |                    |                  |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------|----------------|--------------------|------------------|
| Station No.                                                                                       | Station name                                  | Location                                                                                                                                                                                                                                                                                                                                              | Drainage area (sq mi) | Period of record  | Annual maximum |                    |                  |
|                                                                                                   |                                               |                                                                                                                                                                                                                                                                                                                                                       |                       |                   | Date           | Gage height (feet) | Dis-charge (cfs) |
| Pearl River basin--Continued                                                                      |                                               |                                                                                                                                                                                                                                                                                                                                                       |                       |                   |                |                    |                  |
| 02485392                                                                                          | Clear Creek tributary near Pelahatchie, Miss. | Lat 32°21'35", long 89°47'55", on line between SW¼ sec.16 and SE¼ sec.17, T.6 N., R.5 E., Choctaw meridian, Rankin County, at 60-inch circular culvert on State Highway 43, 3.3 miles north of intersection on Highways 80 and 43 in Pelahatchie.                                                                                                     | 0.12                  | 1965-74           | 11-20-73       | 4.47               | 52               |
| 02485650                                                                                          | Purple Creek at Jackson, Miss.                | Lat 32°22'45", long 90°07'17", in NW¼ sec.8, T.6 N., R.2 E., Choctaw meridian, Hinds County, at Colonial Country Club, 600 ft above old Canton Road bridge, and 1.5 miles above mouth.                                                                                                                                                                | 5.85                  | 1952-74           | 1-24-74        | 96.26              | 1,350            |
| 02485700                                                                                          | Hanging Moss Creek at Jackson, Miss.          | Lat 32°22'00", long 90°09'00", in NE¼ sec.13, T.6 N., R.1 E., Choctaw meridian, Hinds County, at bridge on east service road of Interstate 55 (formerly U.S. Highway 51), 1 mile above Whiteoak Creek, and 2 miles above mouth. Prior to Oct. 1, 1961, at datum 73.56 ft lower.                                                                       | 16                    | 1953-74           | 1-24-74        | 18.55              | 3,000            |
| 02485800                                                                                          | Eubanks Creek at Jackson, Miss.               | Lat 32°20'15", long 90°09'40", in NE¼NW¼NE¼ sec.26, T.6 N., R.1 E., Choctaw meridian, Hinds County, near right bank at downstream side of Wood Dale Drive bridge in Jackson, 1600 ft upstream from Interstate 55 (formerly U.S. Highway 51), and 1.3 miles upstream from mouth. Prior to Oct. 1, 1959, at 1,600 ft downstream at datum 0.74 ft lower. | 4.0                   | 1954-74           | 8-30-74        | 13.18              | 1,700            |
| 02485900                                                                                          | Neely Creek near Brandon, Miss.               | Lat 32°17'58", long 90°03'44", in SW¼ sec.2, T.5 N., R.2 E., Choctaw meridian, Rankin County, at double 8 x 6 foot box culvert on New Airport Road, 5.4 miles west of Brandon.                                                                                                                                                                        | 1.09                  | 1965-74           | 12-25-73       | 4.48               | 304              |
| 02486050                                                                                          | Town Creek at Jackson, Miss.                  | Lat 32°17'35", long 90°11'06", in NW¼SW¼ sec.3, T.5 N., R.1 E., Choctaw meridian, Hinds County, at bridge on Gallatin St. in Jackson, 300 ft above Illinois Central Railroad.                                                                                                                                                                         | 11.7                  | 1953-74           | 1-25-74        | 11.45              | 2,420            |
| 02486100                                                                                          | Lynch Creek at Jackson, Miss.                 | Lat 32°17'15", long 90°13'00", in SE¼ sec.8, T.5 N., R.1 E., Choctaw meridian, Hinds County, at bridge on Valley St. in Jackson, 2,000 ft below U.S. Highway 80, and 2.0 miles above mouth. Prior to Oct. 1, 1958, at site 2,000 ft upstream.                                                                                                         | 11.1                  | 1955-74           | 1-25-74        | 14.95              | 4,300            |
| 02486115                                                                                          | Three Mile Creek at Jackson, Miss.            | Lat 32°16'15", long 90°13'00", in NW¼SE¼ sec.17, T.5 N., R.1 E., Choctaw meridian, Hinds County, 300 ft downstream from old U.S. Highway 51 (Terry Road), 0.6 mile above Illinois Central Railroad.                                                                                                                                                   | 1.12                  | 1962-74           | 8-30-74        | 281.48             | 1,700            |
| 02486240                                                                                          | Richland Creek tributary near Brandon, Miss.  | Lat 32°13'30", long 90°01'10", on line between sec.32, T.5 N., R.3 E. and sec.6, T.4 N., R.3 E., Choctaw meridian, Rankin County, on State Highway 469, 4.6 miles southwest of Brandon.                                                                                                                                                               | .12                   | 1966-74           | 12-25-73       | 5.67               | 83               |
| 02487300                                                                                          | Strong River near Puckett, Miss.              | Lat 32°04', long 89°45', in SE¼SE¼ sec.26, T.3 N., R.4 E., Choctaw meridian, Rankin County, at State Highway 18, 2 miles south-east of Puckett.                                                                                                                                                                                                       | --                    | 1958-74           | 4-13-74        | 26.78              | 18,000           |
| 02487500                                                                                          | Strong River at D'Lo, Miss.                   | Lat 31°58'45", long 89°54'05", in SW¼ sec.28, T.2 N., R.4 E., Choctaw meridian, on left bank at downstream side of old U.S. Highway 49, 0.2 mile south of D'Lo.                                                                                                                                                                                       | 429                   | 1928-71†, 1972-74 | 4-14-74        | 32.75              | 24,000           |
| 02487670                                                                                          | Boggans ditch near Mendenhall, Miss.          | Lat 31°53'10", long 89°53'20", in NE¼NE¼NE¼ sec.33, T.1 N., R.4 E., Choctaw meridian, Simpson County, at culvert on State Highway 13, 5.5 miles south of Mendenhall. Prior to Oct. 1, 1964, at datum 1.27 ft higher.                                                                                                                                  | .91                   | 1955-74           | 2-15-74        | 4.39               | 188              |

Annual maximum discharge at crest-stage partial-record stations during water year 1974--Continued

| Station No.                  | Station name                                   | Location                                                                                                                                                                                                                                                                                  | Drainage area (sq mi) | Period of record           | Annual maximum |                    |                  |
|------------------------------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------|----------------|--------------------|------------------|
|                              |                                                |                                                                                                                                                                                                                                                                                           |                       |                            | Date           | Gage height (feet) | Dis-charge (cfs) |
| Pearl River basin--Continued |                                                |                                                                                                                                                                                                                                                                                           |                       |                            |                |                    |                  |
| 02487690                     | Baking Powder Draw near Prentiss, Miss.        | Lat 31°50'20", long 89°53'00", in SE¼NE¼NW¼ sec.14, T.10 N., R.19 W., St. Stephens meridian, Simpson County, at culvert on State Highway 13, 4.9 miles north of Jefferson Davis-Simpson County line, and 16.0 miles north of Prentiss. Prior to Oct. 1, 1964, at datum 1.37 ft higher.    | 0.82                  | 1955-74                    | 4-12-74        | 3.23               | 14               |
| 02487710                     | Barretts Branch near Pinola, Miss.             | Lat 31°52'50", long 90°02'40", in NE¼NE¼SE¼ sec.36, T.1 N., R.2 E., Choctaw meridian, Simpson County, at culvert on State Highway 28, 5 miles west of Pinola. Prior to Oct. 1, 1964, at datum 0.79 ft lower.                                                                              | .88                   | 1955, 1957-74              | 4-12-74        | 8.50               | 575              |
| 02487770                     | Bradleys ditch near Pinola, Miss.              | Lat 31°52'50", long 90°05'30", in NW¼NW¼SW¼ sec.34, T.1 N., R.2 E., Choctaw meridian, Simpson County, at culvert on State Highway 28, 8.5 miles west of Pinola. Prior to Oct. 1, 1964, at datum 1.09 ft higher.                                                                           | .54                   | 1955-74                    | 4-12-74        | 7.47               | 440              |
| 02487900                     | Copiah Creek near Hazlehurst, Miss.            | Lat 31°53'23", long 90°17'10", in SW¼SE¼ sec.27, T.1 N., R.1 W., Choctaw meridian, Copiah County, at bridge on State Highway 28, 6.2 miles east of Hazlehurst.                                                                                                                            | 48.6                  | 1948-65, 1966-68½, 1969-74 | 4-13-74        | 22.24              | 14,200           |
| 02488340                     | Small Pine ditch near Monticello, Miss.        | Lat 31°32'50", long 90°15'40", in SW¼SW¼NW¼ sec.25, T.7 N., R.9 E., Washington meridian, Lawrence County, at culvert on U.S. Highway 84, 9 miles west of Monticello. Prior to Oct. 1, 1964, at datum 0.84 ft higher.                                                                      | .16                   | 1955-74                    | 4-13-74        | 6.56               | 175              |
| 02488510                     | Roadside Park ditch near Monticello, Miss.     | Lat 31°34'30", long 90°03'20", in SW¼SE¼NW¼ sec.18, T.7 N., R.12 E., St. Stephens meridian, Lawrence County, at culvert on U.S. Highway 84, 3.0 miles east of Monticello. Prior to Oct. 1, 1964, at datum 0.86 ft higher.                                                                 | .25                   | 1955-74                    | 4-12-74        | 7.06               | 289              |
| 02488540                     | Newhebron Gulley at Newhebron, Miss.           | Lat 31°44', long 90°00', in NW¼SW¼SE¼ sec.22, T.9 N., R.20 W., St. Stephens meridian, Lawrence County, at 16 x 10 foot box culvert on paved county highway, 0.9 mile west of Newhebron.                                                                                                   | 2.50                  | 1965-74                    | 4-12-74        | 17.05              | 2,650            |
| 02488550                     | Goines Draw near Prentiss, Miss.               | Lat 31°47'00", long 89°52'40", in NE¼NW¼NE¼ sec.2, T.9 N., R.19 W., St. Stephens meridian, Simpson County, at culvert on State Highway 13, 12.2 miles north of Prentiss.                                                                                                                  | .34                   | 1955-74                    | 4-12-74        | 9.10               | 610              |
| 02488680                     | Plum ditch near Prentiss, Miss.                | Lat 31°35'20", long 89°56'40", on line between NE¼ and SE¼ sec.7, T.7 N., R.19 W., St. Stephens meridian, Jefferson Davis County, at culvert on U.S. Highway 84, 4.2 miles west of Prentiss.                                                                                              | .23                   | 1955-74                    | 8- 7-74        | 3.88               | 45               |
| 02489030                     | Elmers Draw near Columbia, Miss.               | Lat 31°12'00", long 89°58'00", in SE¼SE¼NW¼ sec.26, T.3 N., R.12 E., Washington meridian, Marion County, at U.S. Highway 98, 5.7 miles west of Columbia. Prior to Oct. 1, 1964, at datum 1.12 ft higher.                                                                                  | .91                   | 1955-74                    | 12-25-73       | 7.97               | 447              |
| 02489160                     | Kokomo Draw at Kokomo, Miss.                   | Lat 31°11'30", long 90°00'00", in SW¼SE¼SW¼ sec.28, T.3 N., R.12 E., Washington meridian, Marion County, at culvert on U.S. Highway 98, at Kokomo. Prior to Oct. 1, 1964, at datum 1.20 ft higher.                                                                                        | 1.26                  | 1955-74                    | 8- 1-74        | 5.50               | 409              |
| 02490550                     | Middle Fork Hickory Flat near Tylertown, Miss. | Lat 31°10', long 90°13', on line between secs. 5 and 8, T.2 N., R.10 E., Washington meridian, Walthall County, at culvert on U.S. Highway 98, 0.2 mile above Fernwood, Columbia, and Gulf Railroad, and 5.5 miles northwest of Tylertown. Prior to Oct. 1, 1964, at datum 10.95 ft lower. | 1.37                  | 1953-74                    | 1-19-74        | 5.47               | 364              |

Annual maximum discharge at crest-stage partial-record stations during water year 1974--Continued

| Station No.                  | Station name                                                                                   | Location                                                                                                                                                                                                                                       | Drainage area (sq mi) | Period of record  | Annual maximum |                    |                  |
|------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------|----------------|--------------------|------------------|
|                              |                                                                                                |                                                                                                                                                                                                                                                |                       |                   | Date           | Gage height (feet) | Dis-charge (cfs) |
| Pearl River basin--Continued |                                                                                                |                                                                                                                                                                                                                                                |                       |                   |                |                    |                  |
| 02492360                     | West Hobolochitto Creek near McNeill, Miss.                                                    | Lat 30°39'42", long 89°41'10", in NW¼NE¼ sec. 34, T.4 S., R.17 W., St. Stephens meridian, Pearl River County, at bridge on county road, 3.1 miles west of McNeill.                                                                             | 175                   | 1966-68†, 1969-74 | 12-25-73       | 21.32              | 9,130            |
| Hatchie River basin          |                                                                                                |                                                                                                                                                                                                                                                |                       |                   |                |                    |                  |
| 07029252                     | Pool Branch near Ripley, Miss.                                                                 | Lat 34°42'50", long 88°47'20", in NW¼NW¼ sec. 28, T.4 S., R.5 E., Chickasaw meridian, Tippah County, on State Highway 4, 10.1 miles east of Ripley.                                                                                            | 1.24                  | 1966-74           | 11-27-73       | 5.74               | 350              |
| Wolf River basin             |                                                                                                |                                                                                                                                                                                                                                                |                       |                   |                |                    |                  |
| 07030365                     | Wesley Branch near Walnut, Miss.                                                               | Lat 34°57'00", long 89°05'20", in SE¼ sec.33, T.1 S., R.2 E., Chickasaw meridian, Benton County, on U.S. Highway 72, 10.5 miles west of Walnut.                                                                                                | 2.17                  | 1966-74           | 11-27-73       | 4.70               | 300              |
| Yazoo River basin            |                                                                                                |                                                                                                                                                                                                                                                |                       |                   |                |                    |                  |
| 07267000                     | Hell Creek near New Albany, Miss.                                                              | Lat 34°30'55", long 89°03'10", in SW¼ sec.36, T.6 S., R.2 E., Chickasaw meridian, Union County at bridge on U.S. Highway 78, 3 miles northwest of New Albany, and 4.5 miles above mouth.                                                       | 27.3                  | 1939-42†, 1952-74 | 11-27-73       | 13.41              | 2,950            |
| 07267200                     | Cracker ditch near Pontotoc, Miss.                                                             | Lat 34°17'30", long 89°11'40", in SE¼NW¼NW¼ sec.22, T.9 S., R.1 E., Chickasaw meridian, Pontotoc County, at culvert on State Highway 6, 11 miles west of Pontotoc. Prior to Oct. 1, 1964, at datum 11.43 ft lower.                             | .23                   | 1955-74           | 10- 8-73       | 5.25               | 110              |
| 07268500                     | Cypress Creek near Etta, Miss.                                                                 | Lat 34°26', long 89°17', in SE¼ sec.27, T.7 S., R.1 W., Chickasaw meridian, Lafayette County, at bridge on State Highway 30, 4.5 miles southwest of Etta, and 5 miles above mouth. Prior to Oct. 1, 1964, at datum 10.00 ft higher.            | 28.5                  | 1939-42†, 1952-74 | 1974           |                    | (†)              |
| 07269000                     | North Tippah Creek near Ripley, Miss.                                                          | Lat 34°44', long 89°02', in SW¼ sec.18, T.4 S., R.3 E., Chickasaw meridian, Tippah County, at bridge on State Highway 4, 2 miles upstream from Tippah Creek, and 5.5 miles west of Ripley.                                                     | 20.0                  | 1939-42†, 1952-74 | 11-27-73       | 20.22              | 5,340            |
| 07274250                     | Otocalofa Creek at Water Valley, Miss. (Prior to Oct. 1, 1972, published as Otuckalofa Creek.) | Lat 34°08'25", long 89°38'17", in SW¼NE¼ sec. 8, T.11 S., R.4 W., Chickasaw meridian, Yalobusha County, at bridge on State Highway 7, 0.9 miles south of Water Valley, and 5.2 miles above mouth.                                              | 84.1                  | 1952-74           | 1-11-74        | 24.06              | 4,500            |
| 07275500                     | Long Creek near Courtland, Miss.                                                               | Lat 34°13'40", long 89°56'20", near center of sec.9, T.10 S., R.7 W., Chickasaw meridian, Panola County, at bridge on U.S. Highway 51, 1 mile south of Courtland, 5.5 miles above mouth, and 6 miles south of Batesville.                      | 66.2                  | 1940-43†, 1952-74 | 5-15-74        | 18.04              | 9,010            |
| 07275900                     | Coldwater River near Olive Branch, Miss.                                                       | Lat 34°54'22", long 89°45'10", in SW¼ sec.17, T.2 S., R.5 W., Chickasaw meridian, De Soto County, at bridge on U.S. Highway 78, 5 miles southeast of Olive Branch.                                                                             | 191                   | 1974              | 1-10-74        | 291.43             | (†)              |
| 07277550                     | James Wolf Creek tributary near Looxahoma, Miss.                                               | Lat 34°36'45", long 89°50'30", on line between SW¼ sec.28 and NW¼ sec.33, T.5 S., R.6 W., Chickasaw meridian, Tate County, at double 8 x 5 foot box culvert on State Highway 4, 1.2 miles north of Looxahoma, and 7.8 miles east of Senatobia. | .29                   | 1965-74           | 6- 8-74        | 5.96               | 329              |
| 07282300                     | Sabougla Creek tributary at Sabougla, Miss.                                                    | Lat 33°46'10", long 89°27'30", in SE¼ sec.16, T.22 N., R.8 E., Choctaw meridian, Calhoun County, at culvert on State Highway 8, 0.5 mile south of Sabougla.                                                                                    | .50                   | 1967-74           | 7-11-74        | 7.69               | 401              |

Annual maximum discharge at crest-stage partial-record stations during water year 1974--Continued

| Station No.                  | Station name                                          | Location                                                                                                                                                                                                                | Drainage area (sq mi) | Period of record  | Annual maximum |                    |                  |
|------------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------|----------------|--------------------|------------------|
|                              |                                                       |                                                                                                                                                                                                                         |                       |                   | Date           | Gage height (feet) | Dis-charge (cfs) |
| Yazoo River basin--Continued |                                                       |                                                                                                                                                                                                                         |                       |                   |                |                    |                  |
| 07283490                     | Caney Creek near Coffeeville, Miss.                   | Lat 33°55'40", long 89°38'20", in SE¼NE¼SW¼ sec.23, T.24 N., R.6 E., Choctaw meridian, Yalobusha County, at culvert on State Highway 330, 4.2 miles east of Coffeeville. Prior to Oct. 1, 1964, at datum 8.88 ft lower. | 1.97                  | 1955-74           | 5-15-74        | 8.98               | 1,220            |
| 07285100                     | Tie Plant Branch near Grenada, Miss.                  | Lat 33°43'40", long 89°47'20", in SE¼NE¼SE¼ sec.32, T.22 N., R.5 E., Choctaw meridian, Grenada County, on U.S. Highway 51, 3.3 miles south of Grenada.                                                                  | .13                   | 1966-74           | 6- 7-74        | 6.23               | 205              |
| 07285700                     | Long Creek near Cascilla, Miss.                       | Lat 33°51'40", long 89°59'05", in NE¼ sec.16, T.23 N., R.3 E., Choctaw meridian, Tallahatchie County, at 16 x 12 foot box culvert on county highway, 1.1 miles east of Cascilla.                                        | 1.64                  | 1965-74           | 5-15-74        | 11.00              | 1,440            |
| 07286010                     | Brushy Creek tributary near Oxberry, Miss.            | Lat 33°50'45", long 90°03'10", in NE¼ sec.23, T.23 N., R.2 E., Choctaw meridian, Tallahatchie County, at 24 x 12 foot culvert on State Highway 35, 4.5 miles north of Oxberry.                                          | 1.49                  | 1965-74           | 11-27-73       | 8.31               | 1,320            |
| 07286047                     | Tippo Bayou tributary at Phillip, Miss.               | Lat 33°45'30", long 90°11'30", in NE¼ sec.21, T.22 N., R.1 E., Choctaw meridian, Tallahatchie County, at culvert on State Highway 8, 0.8 mile east of Illinois Central Railroad in Phillip.                             | .04                   | 1967-74           | 6- 8-74        | 3.94               | 19               |
| 07286520                     | Big Sand Creek tributary near North Carrollton, Miss. | Lat 33°31'30", long 89°52'50", on line between SE¼ and NE¼ sec.9, T.19 N., R.4 E., Choctaw meridian, Carroll County, at 36-inch corrugated pipe on county highway 2.4 miles east of North Carrollton.                   | .09                   | 1965-74           | 6- 8-74        | 5.21               | 39               |
| 07287050                     | Palusha Creek tributary near Carrollton, Miss.        | Lat 33°28', long 89°57', in SE¼ sec.35, T.19 N., R.3 E., Choctaw meridian, Carroll County, at 8 x 6 foot box culvert on State Highway 17, 3.4 miles south of Carrollton.                                                | .43                   | 1965-74           | 11-27-73       | 3.39               | 54               |
| 07287165                     | Mosquito Lake tributary No. 1 at Itta Bena, Miss.     | Lat 33°28'55", long 90°19'30", in SE¼NW¼ sec.29, T.19 N., R.1 W., Choctaw meridian, Leflore County, on State Highway 7, 0.5 mile south of compress at Itta Bena.                                                        | .11                   | 1966-74           | 3-19-74        | 4.69               | 58               |
| 07287170                     | Mosquito Lake tributary No. 2, at Itta Bena, Miss.    | Lat 33°28'45", long 90°19'20", in NE¼NW¼ sec.29, T.19 N., R.1 W., Choctaw meridian, Leflore County, on State Highway 7, 0.8 mile south of compress at Itta Bena.                                                        | .13                   | 1966-74           | 3-19-74        | 3.87               | 58               |
| 07287350                     | Fannegusha Creek near Tchula, Miss.                   | 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, on State Highway 12, 3 miles east of Tchula.                                                           | 100                   | 1953-65h, 1968-74 | 11-27-73       | 158.73             | 16,000           |
| 07287505                     | Broad Lake tributary No. 1 near Yazoo City, Miss.     | Lat 32°52'50", long 90°29'40", in SE¼SW¼ sec. 15, T.12 N., R.3 W., Choctaw meridian, Yazoo County, on U.S. Highway 49W, 3.6 miles northwest of Yazoo River bridge near Yazoo City.                                      | .11                   | 1966-74           | 2- 6-74        | 5.22               | 24               |
| 07288568                     | Quiver River tributary near Schlater, Miss.           | Lat 33°38'30", long 90°24'30", in SE¼ sec.33, T.21 N., R.2 W., Choctaw meridian, Leflore County, at culvert on State Highway 442, 3.4 miles west of Schlater.                                                           | .18                   | 1967-74           | 2-21-74        | 5.89               | 40               |
| Big Black River basin        |                                                       |                                                                                                                                                                                                                         |                       |                   |                |                    |                  |
| 07289100                     | Big Black River tributary near Eupora, Miss.          | Lat 33°32'00", long 89°17'40", in SW¼ sec.6, T.19 N., R.10 E., Choctaw meridian, Webster County, at double 12 x 5 foot box culvert on U.S. Highway 82, 1.8 miles southwest of Eupora.                                   | 2.29                  | 1965-74           | 8-13-74        | 7.32               | 961              |

Annual maximum discharge at crest-stage partial-record stations during water year 1974--Continued

| Station No.                      | Station name                                 | Location                                                                                                                                                                                                                            | Drainage area (sq mi) | Period of record  | Annual maximum |                    |                  |
|----------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------|----------------|--------------------|------------------|
|                                  |                                              |                                                                                                                                                                                                                                     |                       |                   | Date           | Gage height (feet) | Dis-charge (cfs) |
| Big Black River basin--Continued |                                              |                                                                                                                                                                                                                                     |                       |                   |                |                    |                  |
| 07289225                         | Downing Branch near French Camp, Miss.       | Lat 33°19', long 89°25', in SW¼ sec.24, T.17 N., R.8 E., Choctaw meridian, Choctaw County, at 12 x 12 foot box culvert on State Highway 413, 2.0 miles north of French Camp.                                                        | 1.74                  | 1965-74           | 1-24-74        | 7.72               | 380              |
| 07289268                         | Hays Creek tributary near Vaiden, Miss.      | Lat 33°21'20", long 89°48'00", in NW¼NW¼ sec.8, T.17 N., R.5 E., Choctaw meridian, Carroll County, on State Highway 35, 4.3 miles north-west of Highway 51 near Vaiden.                                                             | .40                   | 1966-74           | 4-12-74        | 8.24               | 499              |
| 07289395                         | Sharkey Creek tributary near West, Miss.     | Lat 33°08'45", long 89°44'30", in NW¼ sec.24, T.15 N., R.5 E., Choctaw meridian, Attala County, at culvert on State Highway 19, 4.7 miles southeast of West.                                                                        | .30                   | 1967-74           | 4-12-74        | 6.14               | 122              |
| 07289470                         | Tacketts Creek tributary near Pickens, Miss. | Lat 32°56', long 89°58', on line between NE¼ and SE¼ sec.34, T.13 N., R.3 E., Choctaw meridian, Holmes County, at 6 x 6 foot box culvert on State Highway 17, 3.6 miles north of Pickens.                                           | .15                   | 1965-74           | 5-26-74        | 5.29               | 114              |
| 07289600                         | Tilda Bogue near Canton, Miss.               | Lat 32°39'15", long 90°00'50", in SW¼ sec.5, T.9 N., R.3 E., Choctaw meridian, Madison County, at bridge on U.S. Highway 51, 3 miles north of Canton, and 3.5 miles above mouth.                                                    | 24.4                  | 1948-74           | 1-25-74        | 18.01              | 4,250            |
| 07289640                         | Panther Creek near Flora, Miss.              | Lat 32°33'57", long 90°10'22", in SW¼ sec.2, T.8 N., R.1 E., Choctaw meridian, Madison County, at 6 x 5 foot box culvert on State Highway 22, 8.0 miles northeast of Flora.                                                         | .26                   | 1965-74           | 11-27-73       | 6.30               | 191              |
| 07289641                         | Panther Creek tributary near Flora, Miss.    | Lat 32°34'00", long 90°10'05", in SW¼ sec.2, T.8 N., R.1 E., Choctaw meridian, Madison County, at 5 x 2.2 foot culvert on State Highway 22, 8.3 miles northeast of Flora.                                                           | .07                   | 1965-74           | 11-27-73       | 6.49               | 122              |
| 07290005                         | Clear Creek near Bovina, Miss.               | Lat 32°21'42", long 90°43'32", in SW¼ sec.17 T.6 N., R.5 W., Choctaw meridian, Warren County, on county road, 1 mile northeast of Bovina.                                                                                           | e36                   | 1953-74           | 12-24-73       | 26.98              | 10,000           |
| Bayou Pierre basin               |                                              |                                                                                                                                                                                                                                     |                       |                   |                |                    |                  |
| 07290220                         | Dry Draw near Brookhaven, Miss.              | Lat 31°38'35", long 90°25'50", in NW¼SW¼SW¼ sec.20, T.8 N., R.8 E., Washington meridian, Lincoln County, on U.S. Highway 51, 4.5 miles north of Brookhaven.                                                                         | 0.20                  | 1966-74           | 4-13-74        | 8.10               | 317              |
| 07290525                         | Whiteoak Creek tributary near Utica, Miss.   | Lat 32°04'00", long 90°31'35", in SE¼ sec.29, Choctaw meridian, Hinds County, at 12 x 12 foot box culvert on State Highway 27, 6.3 miles southeast of Utica.                                                                        | 1.36                  | 1965-74           | 4-13-74        | 7.57               | 590              |
| 07290690                         | Clarks Creek near Pattison, Miss.            | Lat 31°53'40", long 90°50'40", in lot 35, T.11 N., R.4 E., Washington meridian, Claiborne County, at bridge on county highway, 1.3 miles above mouth, and 2.5 miles east of Pattison.                                               | 77.4                  | 1961-62†, 1963-74 | 4-12-74        | 26.18              |                  |
| 07290830                         | Little Creek near Fayette, Miss.             | 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, at culvert on State Highway 33, 2 miles south of Fayette.                                               | 1.71                  | 1967-74           | 4-12-74        | 15.45              | 1,800            |
| 07290870                         | Coles Creek near Fayette, Miss.              | Lat 31°45'55", long 91°11'30", in lot 21, T.9 N., R.1 W., Washington meridian, Jefferson County, at bridge on county highway, 0.7 mile below confluence of North and South Forks of Coles Creek, and 10 miles northwest of Fayette. | 257                   | 1961-62†, 1963-74 | 4-12-74        | 31.96              | (†)              |



Annual maximum discharge at crest-stage partial-record stations during water year 1974--Continued

| Annual maximum discharge at crest-stage partial-record stations during water year 1974--Continued |                                               |                                                                                                                                                                                                                           |                       |                  |                |                    |                  |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------|----------------|--------------------|------------------|
| Station No.                                                                                       | Station name                                  | Location                                                                                                                                                                                                                  | Drainage area (sq mi) | Period of record | Annual maximum |                    |                  |
|                                                                                                   |                                               |                                                                                                                                                                                                                           |                       |                  | Date           | Gage height (feet) | Dis-charge (cfs) |
| St. Catherine Creek basin                                                                         |                                               |                                                                                                                                                                                                                           |                       |                  |                |                    |                  |
| 07290910                                                                                          | Spanish Bayou at Natchez, Miss.               | Lat 31°31'50", long 91°22'25", in sec.46, T.7 N., R.3 W., Washington meridian, Adams County, at culvert on U.S. Highways 84 and 65, at southern city limits of Natchez.                                                   | 2.59                  | 1967-74          | 1- 3-74        | 14.36              | 1,810            |
| Homochitto River basin                                                                            |                                               |                                                                                                                                                                                                                           |                       |                  |                |                    |                  |
| 07291250                                                                                          | McCall Creek near Lucien, Miss.               | Lat 31°30'24", long 90°38'45", in SW¼ sec.6, T.6 N., R.6 E., Washington meridian, Franklin County, at U.S. Highway 84, 0.8 mile east of Lucien.                                                                           | e60                   | 1953, 1955-74    | 4-13-74        | 92.7               |                  |
| 07291260                                                                                          | Beaver Run near McCall Creek, Miss.           | Lat 31°30'30", long 90°43'10", in NW¼NE¼ sec.8, T.6 N., R.5 E., Washington meridian, Franklin County, at culvert on U.S. Highway 84, 1.4 miles west of McCall Creek. Prior to Oct. 1, 1964, at datum 0.56 ft higher.      | 2.61                  | 1955-74          | 4-13-74        | 10.85              | 1,220            |
| 07294400                                                                                          | Observers Draw near Doloroso, Miss.           | Lat 31°19'10", long 91°21'20", between secs.10 and 22, T.4 N., R.2 W., Washington meridian, Wilkinson County, at culvert on U.S. Highway 61, 1.3 miles north of Doloroso. Prior to Oct. 1, 1964, at datum 0.80 ft higher. | .22                   | 1954-74          | 12-24-73       | 7.17               | 210              |
| Thompson Creek basin                                                                              |                                               |                                                                                                                                                                                                                           |                       |                  |                |                    |                  |
| 07373550                                                                                          | Moore's Branch near Woodville, Miss.          | Lat 31°05'20", long 91°14'30", in SE¼SW¼ sec.32, T.2 N., R.1 W., Washington meridian, Wilkinson County, at State Highway 24, 3.3 miles east of Woodville. Prior to Oct. 1, 1964, at datum 0.88 ft lower.                  | 0.21                  | 1955-74          | 4-13-74        | 5.35               | 225              |
| Mississippi River Delta                                                                           |                                               |                                                                                                                                                                                                                           |                       |                  |                |                    |                  |
| 07375235                                                                                          | Tangipahoa River tributary near McComb, Miss. | Lat 31°12'30", long 90°31'40", in NE¼SE¼ sec.19, T.3 N., R.7 E., Washington meridian, Pike County, on State Highway 24, 4.8 miles southwest of McComb.                                                                    | 2.71                  | 1966-74          | 4-13-74        | 8.00               | 1,000            |
| 07376665                                                                                          | Stock Pond Draw near Liberty, Miss.           | Lat 31°10'15", long 90°45'20", in NW¼SE¼NE¼ sec.1, T.2 N., R.4 E., Washington meridian, Amite County, on State Highway 24, 3.4 miles east of Liberty.                                                                     | .38                   | 1966-74          | 4-13-74        | 5.16               | 146              |
| 07376760                                                                                          | CRS Draw near Liberty, Miss.                  | Lat 31°06'50", long 90°54'10", in SW¼NW¼ sec.32, T.2 N., R.3 E., Washington meridian, Amite County, on State Highway 48, 6.6 miles west of intersection with Highway 24 in Liberty.                                       | .80                   | 1966-74          | 12-25-73       | 8.51               | 536              |

† Discharge not determined.

‡ Operated as a continuous-record gaging station.

a Discontinued as a crest-stage station; established as a continuous-record station 06-07-73.

b Revised.

c Corrected.

d From floodmark.

e Approximately.

f Gage height and discharge measurements in files of Corps of Engineers.

g High-water mark was not obtained.

h Published at site near Howard, 3 miles downstream.

j Unknown, occurred sometime between 04-11-74 and 07-30-74.

## DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

## Discharge measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations are given in the following table. Those that are measurements of base flow are designated by an asterisk (\*); measurements of peak flow by a dagger (†).

## Discharge measurements made at miscellaneous sites during water year 1974

| Stream                      | Tributary to    | Location                                                                                                                                                                                                        | Drainage area (sq mi) | Measured previously (water years)  | Measurements |                 |
|-----------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------------|--------------|-----------------|
|                             |                 |                                                                                                                                                                                                                 |                       |                                    | Date         | Discharge (cfs) |
| Mobile River basin          |                 |                                                                                                                                                                                                                 |                       |                                    |              |                 |
| Mud Creek                   | Town Creek      | Lat 34°18'46", long 88°41'42", in W½ sec.8, T.9 S., R. 6 E., Chickasaw meridian, Lee County, at bridge on county road, 0.5 mile (0.8 km) east of U.S. Highway 45, and 4.5 miles (7.2 km) north of Tupelo, Miss. | -                     | -                                  | 6-26-74      | 13.5            |
| Mud Creek                   | Town Creek      | Lat 34°15'26", long 88°41'05", in SE¼ sec.32, T.9 S., R.6 E., Chickasaw meridian, Lee County, at steel bridge on U.S. Highway 78, 0.9 mile (1.4 km) east of Tupelo, Miss.                                       | 92                    | 1939, 1941, 1943-47                | 6-26-74      | 16.6            |
| Sewage disposal ditch No. 1 | Town Creek      | Lat 34°13'45", long 88°41'24", in SW¼ sec.8, T.10 S., R.6 E., Chickasaw meridian, Lee County, at sewage disposal pond about 1.5 miles (2.4 km) southeast of Tupelo, Miss.                                       | -                     | -                                  | 6-25-74      | 1.47            |
| Sewage disposal ditch No. 2 | Town Creek      | Lat 34°13'21", long 88°42'00", in NE¼ sec.8, T.10 S., R.6 E., Chickasaw meridian, Lee County, at sewage disposal pond about 1.7 miles (2.7 km) southeast of Tupelo, Miss.                                       | -                     | -                                  | 6-25-74      | 1.30            |
| Sewage disposal ditch No. 3 | Town Creek      | Lat 34°13'10", long 88°41'56", in NE¼ sec.17, T.10 S., R.6 E., Chickasaw meridian, Lee County, at sewage disposal pond about 1.8 miles (2.9 km) southeast of Tupelo, Miss.                                      | -                     | -                                  | 6-25-74      | .36             |
| Sewage disposal ditch No. 4 | Town Creek      | Lat 34°13'04", long 88°42'05", in NE¼ sec.17, T.10 S., R.6 E., Chickasaw meridian, Lee County, at sewage disposal pond about 1.0 mile (1.6 km) east of Tupelo, Miss.                                            | -                     | -                                  | 6-25-74      | .47             |
| Town Creek                  | Tombigbee River | Lat 34°11'53", long 88°40'57", in SW¼ sec.21, T.10 S., R.6 E., Chickasaw meridian, Lee County, at bridge on county road 2.2 miles (3.5 km) east of Verona, Miss.                                                | 263                   | 1939-44, 1944-47, 1953, 1967, 1972 | 6-25-74      | 58.7            |
| Sewage disposal ditch No. 5 | Town Creek      | Lat 34°12'23", long 88°40'24", in NE¼ sec.21, T.10 S., R.6 E., Chickasaw meridian, Lee County, at sewage lagoon, at county road, 3.0 miles (4.8 km) southeast of Tupelo, Miss.                                  | -                     | -                                  | 6-26-74      | .03             |
| Town Creek                  | Tombigbee River | Lat 34°09'18", long 88°39'40", in NW¼ sec.3, T.11 S., R.6 E., Chickasaw meridian, Lee County, at bridge on county road, 4.0 miles (6.4 km) southeast of Verona, Miss.                                           | -                     | 1972                               | 6-25-74      | 63.6            |
| Coonewah Creek              | Town Creek      | Lat 34°07'20", long 88°39'58", on line between secs.15 and 16, T.11 S., R.6 E., Chickasaw meridian, Lee County, at bridge on county road, 3.0 miles (4.8 km) east of Shannon, Miss.                             | -                     | -                                  | 6-25-74      | 19.0            |
| Town Creek                  | Tombigbee River | Lat 34°05'59", long 88°39'05", in NE¼ sec.27, T.11 S., R.6 E., Chickasaw meridian, Lee County, at bridge on U.S. Highways 45 and 278, 3.5 miles (5.6 km) southeast of Shannon, Miss.                            | -                     | 1972                               | 6-26-74      | 74.1            |
| Chiwapa Creek               | Town Creek      | Lat 34°04'47", long 88°39'23", in SE¼ sec.34, T.11 S., R.6 E., Chickasaw meridian, Monroe County, 1.3 miles (2.1 km) west of Nettleton, Miss.                                                                   | -                     | -                                  | 6-26-74      | 73.4            |

Discharge measurements made at miscellaneous sites during water year 1974--Continued

| Stream                        | Tributary to    | Location                                                                                                                                                                                                   | Drainage area (sq mi) | Measured previously (water years)     | Measurements        |                  |
|-------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------|---------------------|------------------|
|                               |                 |                                                                                                                                                                                                            |                       |                                       | Date                | Discharge (cfs)  |
| Mobile River basin--Continued |                 |                                                                                                                                                                                                            |                       |                                       |                     |                  |
| Sewage disposal ditch No. 1   | Town Creek      | Lat 34°06'01", long 88°37'34", in NW¼ sec.25, T.11 S., R.7 E., Chickasaw meridian, Lee County, at sewage disposal pond, west of State Highway 6, 0.5 mile (0.8 km) north of Nettleton, Miss.               | -                     | -                                     | 6-26-74             | 0                |
| Sewage disposal ditch No. 2   | Town Creek      | Lat 34°05'31", long 88°38'14", in SE¼ sec.26, T.11 S., R.6 E., Chickasaw meridian, Lee County, at sewage disposal pond, south of U.S. Highways 45 and 278, 0.3 mile (0.5 km) west of Nettleton, Miss.      | -                     | -                                     | 6-26-74             | .02              |
| Sewage disposal ditch No. 3   | Town Creek      | Lat 34°04'16", long 88°37'30", in NW¼ sec.1, T.12 S., R.6 E., Chickasaw meridian, Monroe County, at sewage disposal pond, west of U.S. Highways 45 and 278, 0.5 mile (0.8 km) south of Nettleton, Miss.    | -                     | -                                     | 6-26-74             | .04              |
| Sewage disposal ditch No. 4   | Roberts Branch  | Lat 34°05'05", long 88°36'46", in NW¼ sec.31, T.11 S., R.7 E., Chickasaw meridian, Monroe County, at sewage disposal pond, 0.3 mile (0.5 km) southeast of Nettleton, Miss.                                 | -                     | -                                     | 6-26-74             | .06              |
| Town Creek                    | Tombigbee River | Lat 34°01'20", long 88°33'15", in SW¼ sec.22, T.12 S., R.7 E., Chickasaw meridian, Monroe County, at county road south of State Highway 6, 2.0 miles (3.2 km) northwest of Bigbee, Miss.                   | -                     | -                                     | 6-27-74             | 152              |
| Town Creek                    | Tombigbee River | Lat 33°59'23", long 88°32'55", in SW¼ sec.34, T.12 S., R.7 E., Chickasaw meridian, Monroe County, at mouth of Town Creek, 3.5 miles (5.6 km) west of Amory, Miss.                                          | -                     | 1972                                  | 6-27-74             | 166              |
| Pascagoula River basin        |                 |                                                                                                                                                                                                            |                       |                                       |                     |                  |
| Okatoma Creek                 | Bowie Creek     | Lat 31°53'10", long 89°41'56", in NE¼NE¼ sec.32, T.1 N., R.6 E., Choctaw meridian, Simpson County, on county road, 2.0 miles (3.2 km) east of Magee, Miss.                                                 | -                     | 1971-72                               | 12- 6-71<br>4-12-74 | 1,310<br>+12,100 |
| Okatoma Creek                 | Bowie Creek     | Lat 31°51'55", long 89°41'26", in E¼ sec.3, T.10 N., R.17 W., St. Stephens meridian, Simpson County, at bridge on State Highway 28, 2.8 miles (4.5 km) east of Magee, Miss.                                | b38                   | 1960-62,<br>1971-73                   | 4-12-74             | 16,100           |
| Chickasawhay River            | Leaf River      | Lat 31°40'46", long 88°41'00", in NW¼ sec.10, T.8 N., R.7 W., St. Stephens meridian, Wayne County, at bridge on U.S. Highway 84, 2 miles (3 km) west of Waynesboro, Miss.                                  | b1,660                | 1939-50+<br>1957,<br>1964-66,<br>1967 | 4-17-74             | +34,100          |
| Pearl River basin             |                 |                                                                                                                                                                                                            |                       |                                       |                     |                  |
| Fannegusha Creek              | Pearl River     | Lat 32°32'48", long 89°50'00", T.8 N., and on line between sec.12, R.4 E and sec.7, R.5 E., Choctaw meridian, Rankin County, on county highway at bridge, 3.5 miles (5.6 km) northeast of Sand Hill, Miss. | 72.54                 |                                       | 11-15-73            | *1.09            |

Discharge measurements made at miscellaneous sites during water year 1974--Continued

| Stream                                                  | Tributary to              | Location                                                                                                                                                                                                                                                  | Drainage area (sq mi) | Measured previously (water years)           | Measurements         |                 |
|---------------------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------|----------------------|-----------------|
|                                                         |                           |                                                                                                                                                                                                                                                           |                       |                                             | Date                 | Discharge (cfs) |
| Pearl River basin--Continued                            |                           |                                                                                                                                                                                                                                                           |                       |                                             |                      |                 |
| Pearl River                                             | Gulf of Mexico            | Lat 31°14', long 89°51', in E½ sec.7, T.3 N., R.18 W., St. Stephens meridian, Marion County, at bridge on U.S. Highway 98, 1.5 miles (2.4 km) south-west of Columbia, Miss.                                                                               | b5,690                | 1928-54, 1955, 1958, 1960-64, 1966-67, 1972 | 4-15-74              | +93,900         |
| Bogue Chitto                                            | Pearl River               | Lat 31°20', long 90°26', in SE¼ sec.6, T.4 N., R.8 E., Washington meridian, Pike County, at bridge on county road, 1.6 miles (2.6 km) southeast of Johnstons Station, Miss.                                                                               |                       | 1971-73                                     | 4-14-74              | 21,400          |
| Tennessee River basin                                   |                           |                                                                                                                                                                                                                                                           |                       |                                             |                      |                 |
| Indian Creek                                            | Tennessee River           | Lat 34°53'10", long 88°10'20", in SE¼ sec.19, T.2 S., R.11 E., Chickasaw meridian, Tishomingo County, at county highway 6.0 miles (9.7 km) north of Iuka, Miss.                                                                                           | -                     | -                                           | 8-13-73              | c12.0           |
| Sandy Creek                                             | Yellow Creek              | Lat 34°59'35", long 88°15'07", in SW¼ sec.16, T.1 S., R.10 E., Chickasaw meridian, Tishomingo County, at bridge on Mississippi Highway 25, 0.2 mile (3.2 km) south of Mississippi-Tennessee State line and 4.5 miles (7.2 km) north of Cross Roads, Miss. | -                     | -                                           | 8-13-73              | c3.40           |
| Hatchie River basin                                     |                           |                                                                                                                                                                                                                                                           |                       |                                             |                      |                 |
| Hatchie River<br>d/                                     | Mississippi River         | Lat 34°43'28", long 88°52'36", in W½ sec.22, T.4 S., R.5 E., Chickasaw meridian, Tippah County, at bridge on State Highway 4, 10.5 miles (16.9 km) east of Ripley, Miss.                                                                                  | -                     | 1953, 1955-57, 1960, 1966, 1972             | 11-27-73             | 5,300           |
| Yazoo River basin                                       |                           |                                                                                                                                                                                                                                                           |                       |                                             |                      |                 |
| Jasper Creek<br>(Formerly published as Lukeasper Creek) | Little Tallahatchie River | Lat 34°35'36", long 89°00'34", in NW¼ sec.5, T.6 S., R.3 E., Chickasaw meridian, Union County, at bridge on county road, 0.5 mile (0.8 km) south-west of Cotton Plant, Miss.                                                                              | 11.1                  | 1939, 1940                                  | 10-20-71<br>10-30-73 | c0.02<br>.04    |
| North Tippah Creek                                      | Tippah Creek              | Lat 34°44', long 89°02', in SW¼ sec.18, T.4 S., R.3 E., Chickasaw meridian, Tippah County, at bridge on State Highway 4, 2 miles (3 km) upstream from Tippah Creek, and 5.5 miles (8.8 km) west of Ripley.                                                | 20.0                  | 1939-42, 1952-61, 1964                      | 10-30-73             | *2.16           |
| Bagley Creek                                            | Little Tallahatchie River | Lat 34°30'10", long 89°24'53", in SW¼ sec.4, T.7 S., R.2 W., Chickasaw meridian, Lafayette County, on county road, 5 miles (8 km) east of Abbeville, Miss.                                                                                                | 9.96                  | 1940-41, 1971                               | 10-24-73             | 1.83            |
| Hurricane Creek                                         | Sardis Lake               | Lat 34°28'58", long 89°35'00", in SE¼ sec.11, T.7 S., R.4 W., Chickasaw meridian, Lafayette County, at bridge on Hurricane Creek, 4.5 miles (7.2 km) north of College Hill, Miss.                                                                         | 26.68                 | -                                           | 10-30-73             | *16.2           |
| Blackwater Creek                                        | Sardis Lake               | Lat 34°33'00", long 89°36'00", in NE¼ sec.22, T.6 S., R.4 W., Chickasaw meridian, Lafayette County, at bridge on Blackwater Creek at Blackwater, Miss.                                                                                                    | 27.50                 | -                                           | 10-30-73             | *21.6           |
| Toby Tubby Creek                                        | Sardis Lake               | Lat 34°25'30", long 89°36'56", on line between secs.33 and 34, T.7 S., R.4 W., Chickasaw meridian, Lafayette County, at bridge on State Highway 314, 6.5 miles (10.5 km) northwest of Oxford, Miss.                                                       | 39.56                 | -                                           | 11-15-73             | *22.1           |

## Discharge measurements made at miscellaneous sites during water year 1974--Continued

| Stream                       | Tributary to       | Location                                                                                                                                                                                                                                               | Drainage area (sq mi) | Measured previously (water years) | Measurements |                 |
|------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------|--------------|-----------------|
|                              |                    |                                                                                                                                                                                                                                                        |                       |                                   | Date         | Discharge (cfs) |
| Yazoo River basin--Continued |                    |                                                                                                                                                                                                                                                        |                       |                                   |              |                 |
| Greasy Creek                 | Sardis Lake        | Lat 34°30'30", long 89°43'01", in NW¼ sec.3, T.7 S., R.5 W., Chickasaw meridian, Lafayette County, at bridge on Greasy Creek on light duty road 1.9 miles (3.1 km) southeast of Glenville, Miss.                                                       | 13.87                 | -                                 | 10-30-73     | *2.33           |
| Little Greasy Creek          | Greasy Creek       | Lat 34°29'15", long 89°43'45", in center of sec.9, T.7 S., R.5 W., Chickasaw meridian, Lafayette County, at bridge where light duty road crosses Little Greasy Creek, 2.9 miles (4.7 km) south of Glenville, Miss.                                     | 3.59                  | -                                 | 10-30-73     | *.20            |
| Hudson Creek                 | Clear Creek        | Lat 34°21'15", long 89°40'35", in center of S½ sec.25, T.8 S., R.5 W., Chickasaw meridian, Lafayette County, at State Highway 6, at bridge on Hudson Creek, 1 mile (1.6 km) east of Harrisonville School and 9.1 miles (14.6 km) west of Oxford, Miss. | 9.16                  | -                                 | 10-31-73     | *1.80           |
| Wilborn Creek                | Sardis Lake        | Lat 34°28'48", long 89°47'42", in NE¼ sec.14, T.7 S., R.6 W., Chickasaw meridian, Panola County, on county road, 8.5 miles (13.7 km) southeast of Como, Miss.                                                                                          | -                     | -                                 | 11-15-73     | .02             |
| Coleman Creek                | Wilborn Creek      | Lat 34°28'50", long 89°47'02", in NW¼ sec.13, T.7 S., R.6 W., Chickasaw meridian, Panola County, on county road, 9.0 miles (14.5 km) southeast of Como, Miss.                                                                                          | -                     | -                                 | 11-15-73     | .05             |
| Wilborn Creek tributary      | Wilborn Creek      | Lat 34°28'36", long 89°46'32", in NE¼ sec.13, T.7 S., R.6 W., Chickasaw meridian, Panola County, on county road, 9.5 miles (15.3 km) southeast of Como, Miss.                                                                                          | -                     | -                                 | 11-15-73     | .01             |
| Yocona River Canal           | Enid Lake          | Lat 34°12'15", long 89°40'45", in NW¼ sec.24, T.10 S., R.5 W., Chickasaw meridian, Lafayette County, at bridge on State Highway 315 (Prophet Bridge Crossing), 4 miles (6 km) northwest of Water Valley, Miss.                                         | 346.61                | -                                 | 10-30-73     | *90.0           |
| Otocalofa Creek Canal        | Yocona River Canal | Lat 34°08'35", long 89°39'00", at north boundary line between secs. 7 and 8, T.11 S., R.4 W., Chickasaw meridian, Yalobusha County, at Water Valley, Miss.                                                                                             | 88.38                 | -                                 | 10-29-73     | *33.3           |
| Bynum Creek                  | Yocona River Canal | Lat 34°13'30", long 89°44'25", SE¼ sec.8, T.10 S., R.5 W., Chickasaw meridian, Panola County, at bridge on State Highway 315 north of Bynum School, and 6.0 miles (9.7 km) east of Eureka Spring, Miss.                                                | 13.58                 | -                                 | 10-30-73     | *2.96           |
| Long Branch                  | Enid Lake          | Lat 34°05'57", long 89°48'05", center of sec.26, T.11 S., R.5 W., Chickasaw meridian, Yalobusha County, at old Oakland Road bridge, 1.5 miles (2.4 km) south of Ford's Well and 7.1 miles (11.4 km) northeast of Oakland, Miss.                        | 12.45                 | -                                 | 10-29-73     | *.47            |
| Coldwater River              | Arkabutla Lake     | Lat 34°48'02", long 89°53'00", T.3 S., on line between NW¼ sec.30, R.6 W. and NE¼ sec.25, R.7 W., Chickasaw meridian, DeSoto County, at bridge on county road 4.0 miles (6.4 km) west of Cockrum, Miss.                                                | 527.28                | -                                 | 10-29-73     | *143            |



## Discharge measurements made at miscellaneous sites during water year 1974--Continued

| Discharge measurements made at miscellaneous sites during water year 1974--Continued |                 |                                                                                                                                                                                                                                                                        |                       |                                   |                    |                 |
|--------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------|--------------------|-----------------|
| Stream                                                                               | Tributary to    | Location                                                                                                                                                                                                                                                               | Drainage area (sq mi) | Measured previously (water years) | Measurements       |                 |
|                                                                                      |                 |                                                                                                                                                                                                                                                                        |                       |                                   | Date               | Discharge (cfs) |
| Yazoo River basin--Continued                                                         |                 |                                                                                                                                                                                                                                                                        |                       |                                   |                    |                 |
| Short Fork Creek                                                                     | Coldwater River | Lat 34°48'46", long 89°54'36", north center of sec.23, T.3 S., R.6 W., Chickasaw meridian, DeSoto County, about 4 miles (6 km) east of Hernando, Miss.                                                                                                                 | 14.16                 | -                                 | 10-29-73           | 0               |
| Beartail Creek                                                                       | Coldwater River | Lat 34°43'40", long 89°53'00", on line between secs.24 and 19, T.4 S., on line between R.6 W. and R.7 W., Chickasaw meridian, Tate County, at bridge on secondary road, 1.0 mile (1.6 km) south of Daniels Chapel and 6.1 miles (9.8 km) northeast of Coldwater, Miss. | 33.17                 | -                                 | 10-29-73           | *5.19           |
| Hickahala Creek                                                                      | Arkabutla Lake  | Lat 34°37'58", long 89°55'35", in S½ sec.22, T.5 S., R.7 W., Chickasaw meridian, Tate County, at bridge on secondary road, 1.5 miles (2.4 km) northeast of Senatobia, Miss.                                                                                            | 121.80                | -                                 | 10-29-73           | *19.9           |
| Senatobia Creek                                                                      | Hickahala Creek | Lat 34°37'05", long 89°56'30", in center of sec.28, T.5 S., R.7 W., Chickasaw meridian, Tate County, at bridge on State Highway 4, 0.5 mile (0.8 km) east of Senatobia, Miss.                                                                                          | 64.55                 | -                                 | 10-29-73           | *5.88           |
| Senatobia Creek                                                                      | Hickahala Creek | Lat 34°37'10", long 89°56'56", in E½ of sec.28, T.5 S., R.7 W., Chickasaw meridian, Tate County, on State Highway 4 at bridge at eastern edge of Senatobia, Miss.                                                                                                      | 16.71                 | -                                 | 10-29-73           | *.41            |
| Tallahatchie River                                                                   | Yazoo River     | Lat 33°31'58", long 90°14'17", in SW¼ sec.6, T.19 N., R.1 E., Choctaw meridian, Leflore County, above Pemberton Cutoff at Greenwood, Miss.                                                                                                                             | -                     | -                                 | 5-14-74<br>5-16-74 | 7,760<br>9,850  |
| Turkey Creek                                                                         | Skuna River     | Lat 33°58'00", long 89°39'50", on line between secs.9 and 10, T.24 N., R.6 E., Choctaw meridian, Yalobusha County, on State Highway 330, 1.0 mile (1.6 km) southeast of Coffeetown, Miss.                                                                              | 66.08                 | -                                 | 10-30-73           | *18.8           |
| Durden Creek                                                                         | Turkey Creek    | Lat 33°58'25", long 89°40'15", in SE¼ sec.4, T.24 N., R.6 E., Choctaw meridian, Yalobusha County, at bridge on State Highway 330, in south edge of Coffeetown, Miss.                                                                                                   | 21.80                 | -                                 | 10-30-73           | *4.39           |
| Cypress Creek                                                                        | Turkey Creek    | Lat 33°57'20", long 89°41'33", in S½ sec.8, T.24 N., R.6 E., Choctaw meridian, Yalobusha County, at bridge on medium duty road, 1.5 miles (2.4 km) southwest of Coffeetown, Miss.                                                                                      | 21.79                 | -                                 | 10-30-73           | *3.52           |
| Okachickima Creek                                                                    | Turkey Creek    | Lat 33°55'55", long 89°43'30", in center of sec.24, T.24 N., R.6 E., Choctaw meridian, Yalobusha County, at bridge on State Highway 7, 3 miles (5 km) southwest of Coffeetown, Miss.                                                                                   | 7.64                  | -                                 | 10-30-73           | *.02            |
| Perry Creek                                                                          | Grenada Lake    | Lat 33°53'54", long 89°46'34", in SE¼ sec.33, T.24 N., R.5 E., Choctaw meridian, Yalobusha County, at bridge on State Highway 7, approximately 7 miles (11 km) northeast of Grenada, Miss.                                                                             | 20.99                 | -                                 | 10-30-73           | *.49            |
| Big Sand Creek                                                                       | Yalobusha River | Lat 33°35'40", long 90°09'44", in SW¼ sec.26, T.20 N., R.1 E., Choctaw meridian, Leflore County, at mouth, on county road 1.0 mile (1.6 km) northeast of Greenwood, Miss.                                                                                              | -                     | -                                 | 5-14-74            | 58.6            |

## Discharge measurements made at miscellaneous sites during water year 1974--Continued

| Discharge measurements made at miscellaneous sites during water year 1974--Continued |                     |                                                                                                                                                                                                                                          |                       |                                   |                    |                 |
|--------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------|--------------------|-----------------|
| Stream                                                                               | Tributary to        | Location                                                                                                                                                                                                                                 | Drainage area (sq mi) | Measured previously (water years) | Measurements       |                 |
|                                                                                      |                     |                                                                                                                                                                                                                                          |                       |                                   | Date               | Discharge (cfs) |
| Yazoo River basin--Continued                                                         |                     |                                                                                                                                                                                                                                          |                       |                                   |                    |                 |
| Yalobusha River                                                                      | Yazoo River         | Lat 33°33'12", long 90°10'51", in center of sec.34, T.20 N., R.1 E., Choctaw meridian, Leflore County, at mouth, on county road 1.0 mile (1.6 km) north of Greenwood, Miss.                                                              | -                     | -                                 | 5-14-74<br>5-16-74 | 1,400<br>4,090  |
| Pemberton Cutoff                                                                     | Yazoo River         | Lat 33°31'52", long 90°14'18", in NW¼ sec.7, T.19 N., R.1 E., Choctaw meridian, Leflore County, at Tallahatchie River, at U.S. Highway 82, 2.5 miles (4.0 km) west of Greenwood, Miss.                                                   | -                     | -                                 | 5-14-74<br>5-16-74 | 7,300<br>9,940  |
| Yazoo River                                                                          | Mississippi River   | Lat 33°27'49", long 90°13'21", in SW¼ sec.32, T.19 N., R.1 E., Choctaw meridian, Leflore County, at county road above Pelucia Creek, 3.0 miles (4.8 km) southwest of Greenwood, Miss.                                                    | -                     | -                                 | 5-14-74<br>5-17-74 | 9,420<br>14,100 |
| Pelucia Creek                                                                        | Yazoo River         | Lat 33°27'48", long 90°13'16", in SW¼ sec.32, T.19 N., R.1 E., Choctaw meridian, Leflore County, at mouth, on county road, at Rising Sun, Miss.                                                                                          | -                     | -                                 | 5-15-74            | 41.2            |
| Yazoo River                                                                          | Mississippi River   | Lat 32°51'20", long 90°26'08", in SE¼ sec.30, T.12 N., R.3 W., Choctaw meridian, Yazoo County, at bridge on U.S. Highway 49 West, 0.5 mile (0.8 km) northwest of Yazoo City, Miss.                                                       | 8,580                 | 1901-05                           | 2-28-74            | 17,400          |
| Big Sunflower River                                                                  | Yazoo River         | Lat 34°12'07", long 90°34'36", in E½ sec.23, T.27 N., R.4 W., Choctaw meridian, Coahoma County, 2 miles (3 km) downstream from Little Sunflower River, at business U.S. Highway 61, at Clarksdale, Miss.                                 | 108                   | 1940-42, 1954, 1973               | 7-30-74            | 57.7            |
| Sewage disposal ditch                                                                | Big Sunflower River | Lat 34°11'04", long 90°34'52", in NE¼ sec.26, T.27 N., R.4 W., Choctaw meridian, Coahoma County, 4.0 miles (6.4 km) downstream from Little Tallahatchie River, below sewage disposal plant, at southern city limits of Clarksdale, Miss. | -                     | -                                 | 7-30-74            | 5.71            |
| Big Sunflower River                                                                  | Yazoo River         | Lat 34°09'24", long 90°32'58", in NW¼ sec.6, T.26 N., R.3 W., Choctaw meridian, Coahoma County, on State Highway 322, 2.0 miles (3.2 km) south of Clarksdale, at Hopson Spur, Miss.                                                      | -                     | -                                 | 7-29-74<br>8-01-74 | 80.5<br>49.9    |
| Big Sunflower River                                                                  | Yazoo River         | Lat 34°06'08", long 90°33'57", on line between secs.24 and 25, T.26 N., R.4 W., Choctaw meridian, Coahoma County, 3.0 miles (4.8 km) west of Mattison, Miss.                                                                             | -                     | -                                 | 7-30-74            | 84.0            |
| Harris Bayou                                                                         | Big Sunflower River | Lat 34°05'06", long 90°34'54", in NW¼ sec.35, T.26 N., R.4 W., Choctaw meridian, Coahoma County, on county highway, 2.0 miles (3.2 km) west of Counts, Miss.                                                                             | -                     | -                                 | 7-30-74            | 93.0            |
| Big Sunflower River                                                                  | Yazoo River         | Lat 34°03'52", long 90°35'22", in SW¼ sec.2, T.25 N., R.4 W., Choctaw meridian, Coahoma County, on downstream side of highway bridge, at mile 182.5 (293.6 km) at Harvey Chapel, Miss.                                                   | 257                   | 1954                              | 8-01-74            | 159             |
| Big Sunflower River                                                                  | Yazoo River         | Lat 34°01'05", long 90°38'18", in SW¼ sec.20, T.25 N., R.4 W., Choctaw meridian, Coahoma County, at bridge on county highway 2.5 miles (4.0 km) west of Roundaway, Miss.                                                                 | -                     | -                                 | 7-30-74<br>8-01-74 | 207<br>173      |

Yazoo River basin--Continued

| Stream                       | Tributary to        | Location                                                                                                                                                                                                      | Drainage area (sq mi) | Measured previously (water years) | Measurements       |                 |
|------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------|--------------------|-----------------|
|                              |                     |                                                                                                                                                                                                               |                       |                                   | Date               | Discharge (cfs) |
| Yazoo River basin--Continued |                     |                                                                                                                                                                                                               |                       |                                   |                    |                 |
| Hushpuckena River            | Big Sunflower River | Lat 33°58'18", long 90°40'20", in NW¼ sec.1, T.24 N., R.5 W., Choctaw meridian, Bolivar County, at bridge on county road, 4.5 miles (7.2 km) west of Baltzer, Miss.                                           | -                     | -                                 | 7-31-74            | 98.2            |
| Black Bayou                  | Big Sunflower River | Lat 33°59'00", long 90°35'26", in NE¼ sec.3, T.24 N., R.4 W., Choctaw meridian, Sunflower County, at highway bridge at Baltzer, Miss.                                                                         | -                     | -                                 | 7-31-74            | 6.7             |
| Big Sunflower River          | Yazoo River         | Lat 33°57'04", long 90°37'38", in SE¼ sec.17, T.24 N., R.4 W., Choctaw meridian, Sunflower County, at highway bridge, 2.5 miles (4.0 km) southwest of Baltzer, Miss.                                          | -                     | -                                 | 7-31-74            | 320             |
| Big Sunflower River          | Yazoo River         | Lat 33°52'54", long 90°36'38", in NE¼ sec.9, T.23 N., R.4 W., Choctaw meridian, Sunflower County, on downstream side of highway bridge, at mile 161.6 (260.0 km), 1.6 miles (2.6 km) south of Lombardy, Miss. | 492                   | -                                 | 8-01-74            | 336             |
| Lead Bayou                   | Horseshoe Bayou     | Lat 33°46'35", long 90°41'58", on line between secs.3 and 10, T.22 N., R.5 W., Choctaw meridian, Bolivar County, at county road, 1.2 miles (1.9 km) east of Renova, Miss.                                     | -                     | -                                 | 9-17-74            | .43             |
| Lead Bayou                   | Horseshoe Bayou     | Lat 33°43'58", long 90°40'36", on line between SE¼ sec.23 and NE¼ sec.26, T.22 N., R.5 W., Choctaw meridian, Bolivar County, on county road, 1.5 miles (2.4 km) east of Cleveland, Miss.                      | -                     | -                                 | 9-17-74            | .58             |
| Sewage disposal ditch        | Lead Bayou          | Lat 33°45'43", long 90°42'57", on line between secs.9 and 16, T.22 N., R.5 W., Choctaw meridian, Bolivar County, at U.S. Highway 61, 1.0 mile (1.6 km) south of Renova, Miss.                                 | -                     | -                                 | 9-17-74            | 2.47            |
| Sewage disposal ditch        | Lead Bayou          | Lat 33°45'43", long 90°42'40", at center of secs.9,10,15, and 16, T.22 N., R.5 W., Choctaw meridian, Bolivar County, at service road east of U.S. Highway 61, at northern city limits of Cleveland, Miss.     | -                     | -                                 | 9-17-74            | 3.49            |
| Lead Bayou tributary No. 1   | Lead Bayou          | Lat 33°43'58", long 90°41'48", on line between secs.22 and 27, T.22 N., R.5 W., Choctaw meridian, Bolivar County, on county road, 1.0 mile (1.6 km) east of Cleveland, Miss.                                  | -                     | -                                 | 9-16-74<br>9-19-74 | 4.70<br>4.22    |
| Lead Bayou tributary No. 1   | Lead Bayou          | Lat 33°43'13", long 90°40'56", at center of secs.25, 26, 35, and 36, T.22 N., R.5 W., Choctaw meridian, Bolivar County, on county road, 2.5 miles (4.0 km) northeast of Boyle, Miss.                          | -                     | -                                 | 9-17-74            | 5.96            |
| Lead Bayou tributary No. 2   | Lead Bayou          | Lat 33°42'14", long 90°40'42", on line between secs.2 and 35, and between T.21 N. and T.22 N., R.5 W., Choctaw meridian, Bolivar County, at county road, 2.0 miles (3.2 km) east of Boyle, Miss.              | -                     | -                                 | 9-17-74<br>9-19-74 | 2.76<br>.69     |
| Lead Bayou                   | Horseshoe Bayou     | Lat 33°43'07", long 90°38'34", on line between secs.5 and 6, T.21 N., R.4 W., Choctaw meridian, Sunflower County, at county road, 4.5 miles (7.2 km) north-east of Boyle, Miss.                               | -                     | -                                 | 9-16-74<br>9-19-74 | 24.1<br>7.77    |

Discharge measurements made at miscellaneous sites during water year 1974--Continued

| Stream                       | Tributary to        | Location                                                                                                                                                           | Drainage area (sq mi) | Measured previously (water years) | Measurements                  |                            |
|------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------|-------------------------------|----------------------------|
|                              |                     |                                                                                                                                                                    |                       |                                   | Date                          | Discharge (cfs)            |
| Yazoo River basin--Continued |                     |                                                                                                                                                                    |                       |                                   |                               |                            |
| Horseshoe Bayou              | Big Sunflower River | Lat 33°43'02", long 90°36'04", in NE¼ sec.3, T.21 N., R.4 W., Choctaw meridian, Sunflower County, on county road, 2.5 miles (4.0 km) southwest of Ruleville, Miss. | -                     | -                                 | 9-17-74                       | 15.3                       |
| Yazoo River                  | Mississippi River   | Lat 32°29'16", long 90°49'00", in N¼ of Lot 4, T.17 N., R.4 E., Washington meridian, Warren County, 0.8 mile (1.3 km) northwest of Redwood, Miss.                  | -                     | 1965-67                           | 2-28-74<br>3-13-74<br>3-28-74 | 68,300<br>54,100<br>24,700 |
| Homochitto River basin       |                     |                                                                                                                                                                    |                       |                                   |                               |                            |
| Homochitto River             | Mississippi River   | Lat 31°17'32", long 91°21'37", in sec.10, T.4 N., R.2 W., Washington meridian, Wilkinson County, at U.S. Highway 61, 2.2 miles (3.5 km) north of Doloroso, Miss.   | 1,120                 | 1940-46<br>1949-51<br>1967-68     | 4-14-74                       | 123,000                    |

‡ Operated as a continuous-record gaging station.

a Data furnished by and in files of Corps of Engineers, Mobile District.

b Approximately.

c Not previously published.

d Low-flow partial-record station.

e Operated as crest-stage gage.

## DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

## Measurements in Tennessee-Tombigbee Study Area, Mississippi

| Stream                               | Tributary to       | Location                                                                                                                                                                                       | Drainage area (sq mi) | Measured previously (water years) | Measurements |                 |
|--------------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------|--------------|-----------------|
|                                      |                    |                                                                                                                                                                                                |                       |                                   | Date         | Discharge (cfs) |
| Mobile River basin                   |                    |                                                                                                                                                                                                |                       |                                   |              |                 |
| 02429713 Yarber Branch               | Big Rock Hollow    | Lat 34°42'58", long 88°26'11", in SW¼ sec.23, T.4 S., R.8 E., Chickasaw meridian, Prentiss County, on county road, 3.4 miles (5.5 km) north of Altitude, Miss.                                 | 0.47                  | 1972                              | 10-26-73     | 0.40            |
| 02429718 Big Rock Hollow             | Big Brown Creek    | Lat 34°42'08", long 88°26'08", in SW¼ sec.26, T.4 S., R.8 E., Chickasaw meridian, Prentiss County, on county road, 2.4 miles (3.9 km) north of Altitude, Miss.                                 | 2.93                  | 1972                              | 10-26-73     | .81             |
| 02429725 Heading Mill Hollow         | Big Brown Creek    | Lat 34°42'13", long 88°25'38", in center of sec.26, T.4 S., R.8 E., Chickasaw meridian, Prentiss County, on county road, 2.6 miles (4.2 km) north of Altitude, Miss.                           | 3.88                  | 1972                              | 10-26-73     | .88             |
| 02429735 Big Brown Creek             | Mackeys Creek      | Lat 34°40'11", long 88°25'48", in SW¼ sec.2, T.5 S., R.8 E., Chickasaw meridian, Prentiss County, on State Highway 364, 0.7 mile (1.1 km) east of Altitude, Miss.                              | 11.3                  | 1972                              | 10-26-73     | 1.52            |
| 02429742 North Channel of East Prong | East Prong         | Lat 34°41'11", long 88°23'22", in SE¼ sec.31, T.4 S., R.9 E., Chickasaw meridian, Prentiss County, on county road, 3.3 miles (5.3 km) northeast of Altitude, Miss.                             | 1.53                  | 1972                              | 10-26-73     | .20             |
| 02429750 East Prong                  | Big Brown Creek    | Lat 34°40'49", long 88°24'18", in NE¼ sec.1, T.5 S., R.8 E., Chickasaw meridian, Prentiss County, on county road, 2.4 miles (3.9 km) northeast of Altitude, Miss.                              | 4.93                  | 1972                              | 10-26-73     | .50             |
| 02429925 Big Brown Creek             | Mackeys Creek      | Lat 34°30'31", long 88°26'04", on sec. line 35 and 2, T. line 6 and 7 S., R.8 E., Chickasaw meridian, Prentiss County, on State Highway 366, 2.0 miles (3.2 km) east of Marietta, Miss.        | 64.1                  | 1972                              | 10-26-73     | 6.43            |
| 02429933 Little Brown Creek          | Big Brown Creek    | Lat 34°38'40", long 88°21'24", in center of sec.9, T.5 S., R.9 E., Chickasaw meridian, Prentiss County, on county road, 1.8 miles (2.9 km) northwest of Burton, Miss.                          | 1.59                  | 1972                              | 10-24-73     | .30             |
| 02429934 Little Brown Creek trib.    | Little Brown Creek | Lat 34°39'27", long 88°20'44", in SW¼ sec.10, T.5 S., R.9 E., Chickasaw meridian, Prentiss County, on State Highway 365, 1.3 miles (2.1 km) north of Burton, Miss.                             | 3.28                  | 1972                              | 10-24-73     | 1.67            |
| 02429935 Little Brown Creek          | Big Brown Creek    | Lat 34°38'42", long 88°21'26", in center of sec.16, T.5 S., R.9 E., Chickasaw meridian, Prentiss County, on county road, 1.2 miles (1.9 km) northwest of Burton, Miss.                         | 6.86                  | 1972                              | 10-24-73     | 2.84            |
| 02429942 Little Brown Creek trib.    | Little Brown Creek | Lat 34°37'29", long 88°21'50", on line between SW¼ sec.21 and NW¼ sec.28, T.5 S., R.9 E., Chickasaw meridian, Prentiss County, on State Highway 30, 1.6 miles (2.6 km) east of New Hope, Miss. | 10.1                  | 1972                              | 10-24-73     | 4.64            |
| 02429943 Little Brown Creek trib.    | Little Brown Creek | Lat 34°37'30", long 88°21'40", in NW¼ sec.28, T.5 S., R.9 E., Chickasaw meridian, Prentiss County, on county road, 1.7 miles (2.7 km) east of New Hope, Miss.                                  | .15                   | 1972                              | 10-24-73     | .06             |



## Measurements in Tennessee-Tombigbee Study Area, Mississippi--Continued

| Stream                               | Tributary to       | Location                                                                                                                                                                         | Drainage area (sq mi) | Measured previously (water years) | Measurements |                 |
|--------------------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------|--------------|-----------------|
|                                      |                    |                                                                                                                                                                                  |                       |                                   | Date         | Discharge (cfs) |
| Mobile River basin--Continued        |                    |                                                                                                                                                                                  |                       |                                   |              |                 |
| 02429944<br>Little Brown Creek trib. | Little Brown Creek | Lat 34°37'29", long 88°21'56", in corner of secs.20,21,28,29, R.9 E., Chickasaw meridian, Prentiss County, on State Highway 30, 1.5 miles (2.4 km) east of New Hope, Miss.       | 0.06                  | 1972                              | 10-24-73     | 0               |
| 02429947<br>Lacy Creek               | Little Brown Creek | Lat 34°37'29", long 88°22'04", on sec. line 29-20, T.5 S., R.9 E., Chickasaw meridian, Prentiss County, on State Highway 30, 1.4 miles (2.3 km) east of New Hope, Miss.          | 2.82                  | 1972                              | 10-24-73     | .20             |
| 02429948<br>Little Brown Creek trib. | Little Brown Creek | Lat 34°37'29", long 88°22'14", on sec. line 29-20, in T.5 S., R.9 E., Chickasaw meridian, Prentiss County, on State Highway 30, 1.2 miles (1.9 km) east of New Hope, Miss.       | .21                   | 1972                              | 10-24-73     | 0               |
| 02429969<br>Burgess Creek            | Mackeys Creek      | Lat 34°41'42", long 88°17'32", in NW¼ sec.31, T.4 S., R.10 E., Chickasaw meridian, Tishomingo County, on county road, 3.0 miles (4.8 km) north-west of Paden, Miss.              | 1.05                  | 1972                              | 10-25-73     | .97             |
| 02429973<br>Hurricane Creek trib.    | Hurricane Creek    | Lat 34°40'14", long 88°17'24", in SW¼ sec.6, T.5 S., R.10 E., Chickasaw meridian, Tishomingo County, on county road, 1.7 miles (2.7 km) north-west of Paden, Miss.               | 0.90                  | 1972                              | 10-24-73     | 0.12            |
| 02429975<br>Black Branch             | Mackeys Creek      | Lat 34°39'53", long 88°16'00", in N½ sec.8, T.5 S., R.10 E., Chickasaw meridian, Tishomingo County, on Illinois Central Railroad bridge, 0.5 mile (0.8 km) north of Paden, Miss. | 1.40                  | 1972                              | 10-24-73     | .84             |
| 02429977<br>Panther Creek            | Mackeys Creek      | Lat 34°39'34", long 88°15'37", on sec. line 8-9, in T.5 S., R.10 E., Chickasaw meridian, Tishomingo County, on county road, 0.3 mile (0.5 km) east of Paden, Miss.               | 2.76                  | 1972                              | 10-24-73     | 2.66            |
| 02429978<br>King Creek North Fork    | King Creek         | Lat 34°38'21", long 88°14'04", in SW¼ sec.15, T.5 S., R.10 E., Chickasaw meridian, Tishomingo County, on old State Highway 30, 0.2 mile (0.3 km) northwest of Tishomingo, Miss.  | 1.78                  | 1972                              | 10-25-73     | .90             |
| 02429979<br>King Creek South Fork    | King Creek         | Lat 34°38'15", long 88°14'09", in NW¼ sec.22, T.5 S., R.10 E., Chickasaw meridian, Tishomingo County, on Natchez Trace, 0.2 mile (0.3 km) west of Tishomingo, Miss.              | 3.51                  | 1972                              | 10-25-73     | 2.71            |
| 024299792<br>King Creek tributary    | King Creek         | Lat 34°38'29", long 88°14'48", in SE¼ sec.16 T.5 S., R.10 E., Chickasaw meridian, Tishomingo County, on Natchez Trace, 0.9 mile (1.4 km) northwest of Tishomingo, Miss.          | .15                   | 1972                              | 10-25-73     | .28             |
| 024299814<br>Mackeys Creek trib.     | Mackeys Creek      | Lat 34°38'26", long 88°15'34", in SW¼ sec.16 T.5 S., R.10 E., Chickasaw meridian, Tishomingo County, on Natchez Trace, 1.2 miles (1.9 km) south of Paden, Miss.                  | .19                   | 1972                              | 10-24-73     | .25             |
| 02429985<br>Sandy Hook Creek         | Mackeys Creek      | Lat 34°38'16", long 88°17'06", in NE¼ sec.19, T.5 S., R.10 E., Chickasaw meridian, Tishomingo County, on county road, 1.8 miles (2.9 km) south-west of Paden, Miss.              | 1.13                  | 1972                              | 10-24-73     | .52             |

## Measurements in Tennessee-Tombigbee Study Area, Mississippi--Continued

| Stream                           | Tributary to    | Location                                                                                                                                                                    | Drainage area (sq mi) | Measured previously (water years)           | Measurements |                 |
|----------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------|--------------|-----------------|
|                                  |                 |                                                                                                                                                                             |                       |                                             | Date         | Discharge (cfs) |
| Mobile River basin--Continued    |                 |                                                                                                                                                                             |                       |                                             |              |                 |
| 02430038 Rock Creek              | Mackeys Creek   | Lat 34°31'00", long 88°16'17", in NW¼ sec.32, T.6 S., R.10 E., Chickasaw meridian, Tishomingo County, on county road, 3.6 miles (5.8 km) west of Belmont, Miss.             | 9.02                  | 1972                                        | 10-24-73     | 3.36            |
| 02430048 Jourdan Creek           | Rock Creek      | Lat 34°32'33", long 88°16'26", in SW¼ sec.20, T.6 S., R.10 E., Chickasaw meridian, Tishomingo County, on State Highway 4, 2.9 miles (4.7 km) southwest of Dennis, Miss.     | 5.74                  | 1972                                        | 10-24-73     | 1.47            |
| 02430060 Rock Creek              | Mackeys Creek   | Lat 34°29'36", long 88°19'11", in S¼ sec.2, T.7 S., R.9 E., Chickasaw meridian, Tishomingo County, on county road, 1.3 miles (2.1 km) northeast of Moores Mill, Miss.       | 24.2                  | 1972                                        | 10-25-73     | 11.5            |
| 02430085 Red Bud Creek           | Mackeys Creek   | Lat 34°28'00", long 88°17'00", in S¼ sec.18, T.7 S., R.9 E., Chickasaw meridian, Tishomingo County, on county road, 2.7 miles (4.3 km) southeast of Moores Mill, Miss.      | 15.5                  | 1972                                        | 10-25-73     | 5.88            |
| 02430110 Caveness Branch         | Mackeys Creek   | Lat 34°29'15", long 88°21'23", in N¼ sec.9, T.7 S., R.9 E., Chickasaw meridian, Prentiss County, on county road, 1.8 miles (2.9 km) northwest of Moores Mill, Miss.         | 4.45                  | 1972                                        | 10-25-73     | 1.29            |
| 02430120 Pounds Creek            | Caveness Branch | Lat 34°29'15", long 88°21'31", in NW¼ sec.9, T.7 S., R.9 E., Chickasaw meridian, Prentiss County, on county road, 1.9 miles (3.1 km) northwest of Moores Mill, Miss.        | 3.53                  | 1972                                        | 10-25-73     | 1.05            |
| 02430126 Saucer Creek            | Mackeys Creek   | Lat 34°28'05", long 88°20'18", in S¼ sec.15, T.7 S., R.9 E., Chickasaw meridian, Prentiss County, on county road, 1.8 miles (2.9 km) southwest of Moores Mill, Miss.        | 8.97                  | 1972                                        | 10-25-73     | 3.50            |
| 02430150 Mackeys Creek tributary | Mackeys Creek   | Lat 34°27'38", long 88°21'32", in NW¼ s sec.21, T.7 S., R.9 E., Chickasaw meridian, Itawamba County, on county road, 2.3 miles (3.7 km) southwest of Moores Mill, Miss.     | .85                   | 1972                                        | 10-25-73     | .49             |
| 02430600 Donivan Creek           | Tombigbee River | Lat 34°24'54", long 88°26'26", in E¼ sec.3, T.8 S., R.8 E., Chickasaw meridian, Itawamba County, on county road, 3.7 miles (6.0 km) southeast of Kirkville, Miss.           | 36.0                  | 1962-63a 1972                               | 10-25-73     | .42             |
| 02430620 Mud Creek               | Tombigbee River | Lat 34°22'41", long 88°23'31", in N¼ sec.19, T.8 S., R.9 E., Chickasaw meridian, Itawamba County, on county road, 5.5 miles (8.8 km) northwest of Fairview, Miss.           | 14.9                  | 1972                                        | 10-26-73     | 7.86            |
| 02430690 Twentymile Creek        | Tombigbee River | Lat 34°23'10", long 88°27'40", in center of sec.16, T.8 S., R.8 E., Chickasaw meridian, Itawamba County, on State Highway 371, 4.6 miles (7.4 km) north of Mantachie, Miss. | 146                   | 1962-63a 1965a, 1972                        | 10-25-73     | 6.21            |
| 02430900 Cummings Creek          | Tombigbee River | Lat 34°16'57", long 88°24'31", in SE¼ sec.24, T.9 S., R.8 E., Chickasaw meridian, Itawamba County, at bridge on county road, 0.6 miles (1.0 km) north of Fulton, Miss.      | 25.4                  | 1956-57, 1960, 1972                         | 10-26-73     | 20.5            |
| 02431400 Mantachie Creek         | Tombigbee River | Lat 33°15'55", long 88°26'42", in SE¼ sec.32, T.9 S., R.8 E., Chickasaw meridian, Itawamba County, at bridge on U.S. Highway 78, 0.5 mile (0.8 km) east of Dorsey, Miss.    | 61.8                  | 1943, 1945-46, 1952-57, 1959-60, 1970, 1972 | 10-26-73     | 2.61            |

## Measurements in Tennessee-Tombigbee Study Area, Mississippi--Continued

| Stream                                       | Tributary to              | Location                                                                                                                                                                                                                 | Drainage area (sq mi) | Measured previously (water years) | Measurements |                 |
|----------------------------------------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------|--------------|-----------------|
|                                              |                           |                                                                                                                                                                                                                          |                       |                                   | Date         | Discharge (cfs) |
| Mobile River basin--Continued                |                           |                                                                                                                                                                                                                          |                       |                                   |              |                 |
| 02431500 Tombigbee River                     | Mobile River              | Lat 34°12'20", long 88°23'50", in SW¼ sec.18, T.10 S., R.9 E., Chickasaw meridian, Itawamba County, at county road bridge, 2 miles (3 km) downstream from Mantachie Creek, and 4.7 miles (7.6 km) south of Fulton, Miss. | 706                   | 1937-47                           | 10-25-73     | 186             |
| 02432500 Bull Mountain Creek                 | Tombigbee River           | Lat 34°14'20", long 88°16'15", in NE¼SW¼ sec.5, T.10 S., R.10 E., Chickasaw meridian, Itawamba County, at bridge on U.S. Highway 78, 0.7 mile (1.1 km) northwest of Tremont.                                             | 136                   | 1944-69                           | 10-26-73     | 34.9            |
| 02433100 Tombigbee River                     | Mobile River              | Lat 34°05'40", long 88°25'50", in NE¼ sec.26, T.11 S., R.8 E., Chickasaw meridian, Itawamba County, 2.8 miles (4.5 km) northwest of Smithville, Miss.                                                                    | 1,093                 | 1937-40a 1972                     | 10-24-73     | 312             |
| 02433300 Boguefala Creek                     | Tombigbee River           | Lat 34°04'53", long 88°27'49", in center of sec.33, T.11 S., R.8 E., Chickasaw meridian, Monroe County, on county road, 2.7 miles (4.3 km) south of Carolina, Miss.                                                      | 55.7                  | 1972                              | 10-24-73     | 7.47            |
| Tennessee River basin                        |                           |                                                                                                                                                                                                                          |                       |                                   |              |                 |
| 03592537 Cripple Deer Creek trib.            | Cripple Deer Creek        | Lat 34°43'11", long 88°15'35", in N¼ sec.20-21 line, T.4 S., R.10 E., Chickasaw meridian, Tishomingo County, on county road, 2.2 miles (3.5 km) southwest of Midway, Miss.                                               | .93                   | 1972                              | 10-25-73     | .04             |
| 03592550 Cripple Deer Creek                  | Bear Creek                | Lat 34°41'54", long 88°13'14", in SW¼ sec.26, T.4 S., R.10 E., Chickasaw meridian, Tishomingo County, on State Highway 25, 4.2 miles (6.8 km) north of Tishomingo, Miss.                                                 | 11.1                  | 1953-57, 1959-60, 1972            | 10-25-73     | 1.23            |
| 03592554 Trigger Branch                      | Cripple Deer Creek        | Lat 34°39'19", long 88°12'30", in SE¼ sec.11, T.5 S., R.10 E., Chickasaw meridian, Tishomingo County, on county road, 1.9 miles (3.1 km) north-east of Tishomingo, Miss.                                                 | -                     | -                                 | 10-25-73     | 1.42            |
| 03592559 Little Cripple Deer Creek           | Cripple Deer Creek        | Lat 34°46'22", long 88°13'04", in SW¼ sec.35, T.3 S., R.10 E., Chickasaw meridian, Tishomingo County, on State Highway 25, 3.3 miles (5.3 km) south-west of Iuka, Miss.                                                  | .60                   | 1972                              | 10-25-73     | .09             |
| 03592560 Cripple Deer Creek tributary        | Cripple Deer Creek        | Lat 34°46'25", long 88°13'01", in center of sec.35, T.3 S., R.10 E., Chickasaw meridian, Tishomingo County, on State Highway 25, 2.9 miles (4.7 km) south-west of Iuka, Miss.                                            | .82                   | 1972                              | 10-25-73     | .01             |
| 03592561 Little Cripple Deer Creek tributary | Little Cripple Deer Creek | Lat 34°46'08", long 88°13'05", in S½ sec.35, T.3 S., R.10 E., Chickasaw meridian, Tishomingo County, on State Highway 25, 3.0 miles (4.8 km) south-west of Iuka, Miss.                                                   | .89                   | 1972                              | 10-25-73     | .04             |
| 03592563 Little Cripple Deer Creek           | Cripple Deer Creek        | Lat 34°44'03", long 88°11'43", in NE¼ sec.13, T.4 S., R.10 E., Chickasaw meridian, Tishomingo County, on county road, 1.7 miles (2.7 km) east of Midway, Miss.                                                           | 7.17                  | 1972                              | 10-25-73     | .88             |
| 03592565 Moore Branch                        | Little Cripple Deer Creek | Lat 34°44'01", long 88°11'49", in NE¼ sec.13, T.4 S., R.10 E., Chickasaw meridian, Tishomingo County, on county road, 1.6 miles (2.6 km) east of Midway, Miss.                                                           | 3.51                  | 1972                              | 10-25-73     | .99             |

## Measurements in Tennessee-Tombigbee Study Area, Mississippi--Continued

| Stream                             | Tributary to             | Location                                                                                                                                                                        | Drainage area (sq mi) | Measured previously (water years) | Measurements |                 |
|------------------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------|--------------|-----------------|
|                                    |                          |                                                                                                                                                                                 |                       |                                   | Date         | Discharge (cfs) |
| Tennessee River basin--Continued   |                          |                                                                                                                                                                                 |                       |                                   |              |                 |
| 03592656<br>Clausel Creek trib.    | Clausel Creek            | Lat 34°44'22", long 88°21'12", in N½ sec.16, T.4 S., R.9 E., Chickasaw meridian, Prentiss County, on State Highway 365, 0.9 mile (1.4 km) north-west of Cairo, Miss.            | 0.30                  | 1972                              | 10-25-73     | 0.02            |
| 03592659<br>Yellow Creek tributary | Yellow Creek             | Lat 34°43'40", long 88°18'32", in SW¼ sec.13, T.4 S., R.9 E., Chickasaw meridian, Tishomingo County, on State Highway 364, 0.2 mile (0.3 km) south-west of Holcut, Miss.        | 1.46                  | 1972                              | 10-25-73     | .02             |
| 03592660<br>Yellow Creek tributary | Yellow Creek             | Lat 34°43'34", long 88°18'40", in SW¼ sec.13, T.4 S., R.9 E., Chickasaw meridian, Tishomingo County, on State Highway 364, 0.4 mile (0.6 km) south-west of Holcut, Miss.        | .29                   | 1972                              | 10-24-73     | 0               |
| 03592663<br>Yellow Creek tributary | Yellow Creek             | Lat 34°44'16", long 88°18'16", in N½ sec.13, T.4 S., R.9 E., Chickasaw meridian, Tishomingo County, on county road, 0.4 mile (0.6 km) north of Holcut, Miss.                    | .57                   | 1972                              | 10-25-73     | .20             |
| 03592670<br>Berea Creek            | Yellow Creek             | Lat 34°47'15", long 88°19'50", in S½ sec.26-27, T.3 S., R.9 E., Chickasaw meridian, Tishomingo County, on State Highway 365, 1.2 miles (1.9 km) north of Holts Spur, Miss.      | 8.60                  | 1972                              | 10-25-73     | .65             |
| 03592710<br>Little Yellow Creek    | Yellow Creek             | Lat 34°49'07", long 88°16'55", in SE¼ sec.18, T.3 S., R.10 E., Chickasaw meridian, Tishomingo County, on U.S. Highway 72, 2.7 miles (2.7 km) south-east of Burnsville, Miss.    | 11.9                  | 1972                              | 10-25-73     | 2.71            |
| 03592712<br>Ellington Creek        | Little Yellow Creek East | Lat 34°48'45", long 88°15'32", in SW¼ sec.16, T.3 S., R.10 E., Chickasaw meridian, Tishomingo County, on U.S. Highway No. 72, 3.7 miles (6.0 km) southeast of Burnsville, Miss. | -                     | -                                 | 10-25-73     | 3.19            |

| Stream              | Tributary to  | Location                                                                                                                                                                                                        | Drainage area (sq mi) | Measured previously (water years) | Measurements                                                   |                                                    |
|---------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------------|----------------------------------------------------------------|----------------------------------------------------|
|                     |               |                                                                                                                                                                                                                 |                       |                                   | Date                                                           | Discharge (cfs)                                    |
| Bayou Bernard basin |               |                                                                                                                                                                                                                 |                       |                                   |                                                                |                                                    |
| Bayou Bernard       | Big Lake      | Lat 30°26'24", long 89°05'59", in NW¼ sec.16, T.7 S., R.11 W., St. Stephens meridian, Harrison County, 0.6 miles (1.0 km) upstream from bridge at U.S. Highway 49, at Landon, Miss.                             | -                     | -                                 | 6-18-74                                                        | 1.43                                               |
| Flat Branch         | Bayou Bernard | Lat 30°26'25", long 89°05'46", in NW¼ sec.16, T.7 S., R.11 W., St. Stephens meridian, Harrison County, 0.4 mile (0.6 km) downstream from bridge on Dedeaux Rd., at Landon, Miss.                                | -                     | -                                 | 6-18-74                                                        | 1.72                                               |
| Turkey Creek        | Bayou Bernard | Lat 30°24'44", long 89°06'47" in NE¼SW¼ sec.29, T.7 S., R.11 W., St. Stephens meridian, Harrison County, 1.3 mile (2.1 km) upstream from bridge at U.S. Highway 49, 2.0 miles (3.2 km) north of Gulfport, Miss. | -                     | -                                 | 6-18-74                                                        | 1.09                                               |
| Turkey Creek        | Bayou Bernard | Lat 30°25'27", long 89°04'14" in NE¼ sec.22, T.7 S., R.11 W., St. Stephens meridian, Harrison County, at bridge on Creosote Rd., 0.5 mile (0.8 km) north of airport at Gulfport, Miss.                          | -                     | -                                 | 6-18-74                                                        | 202                                                |
| Bayou Bernard Canal | Big Lake      | Lat 30°25'05", long 89°00'28", in NW¼SE¼ sec.20, T.7 S., R.10 W., St. Stephens meridian, Harrison County, at mouth, 2.8 miles (4.5 km) southeast of Loraine, Miss.                                              | -                     | -                                 | 6-18-74<br>6-18-74<br>6-18-74<br>6-19-74<br>6-19-74            | 1,140<br>1,370<br>1,390<br>-707<br>-320<br>-226    |
| Brickyard Bayou     | Bayou Bernard | Lat 30°22'56", long 89°05'30", in NW¼NE¼ sec.4, T.8 S., R.11 W., St. Stephens meridian, Harrison County, at U.S. Highway 49, at Gulfport, Miss.                                                                 | -                     | -                                 | 6-18-74                                                        | 1.10                                               |
| Brickyard Bayou     | Bayou Bernard | Lat 30°23'20", long 89°04'10", on line between secs.34 and 35, T.7 S., R.11 W., St. Stephens meridian, Harrison County, at 7th Ave., at Gulfport, Miss.                                                         | -                     | -                                 | 6-18-74                                                        | 22.2                                               |
| Brickyard Bayou     | Bayou Bernard | Lat 30°23'56", long 89°03'08", on line between SW¼ sec.25 and SE¼ sec.26, T.7 S., R.11 W., St. Stephens meridian, Harrison County, at bridge on Simpson Road, near Mississippi City, Miss.                      | -                     | -                                 | 6-18-74                                                        | 48.3                                               |
| Brickyard Bayou     | Bayou Bernard | Lat 30°24'11", long 89°02'13", in SE¼ sec.25, T.7 S., R.11 W., St. Stephens meridian, at mouth, at Mississippi City, Miss.                                                                                      | -                     | -                                 | 6-18-74                                                        | 95.0                                               |
| Bayou Bernard       | Big Lake      | Lat 30°24'18", long 89°01'50", in W¼ sec.30, T.7 S., R.10 W., St. Stephens meridian, Harrison County, at Handsboro bridge, at Handsboro, Miss.                                                                  | -                     | -                                 | 6-18-74<br>6-18-74<br>6-18-74<br>6-18-74<br>6-19-74<br>6-19-74 | -22<br>703<br>1,570<br>392<br>-318<br>-270<br>-142 |



The flood of April 12-29, in southern Mississippi, established new records at many sites. Rainfall amounts exceeding 15 inches were reported from six counties in southern Mississippi, with 20.76 inches being the greatest. Most of the rain fell within a 30-hour period beginning on the morning of April 12 and extending into the afternoon of April 13. There were up to three periods of intense precipitation, resulting in maximum peak discharges of record on streams with a wide range of drainage-area sizes.

Extensive damage occurred to homes, farms, and highways. Widespread flooding in the cities of Hattiesburg, Columbia, and Laurel resulted in more than 10,000 persons being evacuated from their homes. The loss of several lives was attributed to the flood.

Data on this flood are assembled here to facilitate a comparison of this flood with previous floods.

Flood hydrograph data are given for 22 stations, of which 16 are continuous-record stations and 6 are partial-record stations. The station descriptions are similar to those for continuous-record gaging stations.

The summary of flood stages and discharges lists additional data at gaging stations not published elsewhere and data at miscellaneous sites. This summary contains the downstream site number if one has been assigned; the stream name and sufficient description for locating the site; the drainage area if the drainage area has been previously determined; the river mile as determined by the Corps of Engineers or the Geological Survey; the datum of the gage or survey in feet above mean sea level; the period of known floods (water years); the year of the previous maximum flood; the elevation or gage height and the discharge of that flood; and the date, gage height, and discharge of the April flood. Where the data are available, upstream and downstream elevations of the flood may be given. In general, the upstream elevations are a sufficient distance from bridges to not be affected by the drawdown through the bridges. The downstream elevations are near the bridges. Where the roadway crossing is not normal to the stream, elevations on either side of the stream may be significantly different. In these cases, elevations at each side of the stream both upstream and downstream may be given. Left and right refer to the direction when facing downstream.

#### Flood hydrograph data

##### PASCAGOULA RIVER BASIN

02472000 Leaf River near Collins, Miss.

LOCATION.--Lat 31°42'25", long 89°24'25", in NE¼ sec.33, T.9 N., R.14 W., St. Stephens meridian, Covington County, on right bank at downstream side of bridge on U.S. Highway 84, 2 miles (3 km) downstream from Oakohay Creek, 8 miles (13 km) upstream from Big Creek, 9.5 miles (15.3 km) northeast of Collins, and at mile 114.5 (184.2 km).

DRAINAGE AREA.--752 mi<sup>2</sup> (1,948 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 197.48 ft (60.192 m) above mean sea level (Mississippi State Highway Department bench mark). Prior to Dec. 8, 1938, nonrecording gage at same site and datum.

REMARKS.--See page 46 for complete water year data.

GAGE HEIGHT, IN FEET; DISCHARGE, IN CUBIC FEET PER SECOND; AND ACCUMULATED RUNOFF, IN INCHES,  
AT INDICATED TIME, 1974

| DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF | DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF |
|------|------|----------------|-----------|------------------|------|------|----------------|-----------|------------------|
| 4-12 | 1200 | 5.88           | 562       | .00              | 4-15 | 0600 | 31.67          | 43600     | 4.84             |
| 4-12 | 1400 | 6.06           | 620       | .00              | 4-15 | 1200 | 30.97          | 44400     | 5.42             |
| 4-12 | 1600 | 8.09           | 1540      | .00              | 4-15 | 1800 | 30.15          | 40200     | 5.94             |
| 4-12 | 1700 | 10.35          | 2940      | .01              | 4-15 | 2400 | 29.18          | 35300     | 6.41             |
| 4-12 | 1800 | 12.24          | 4290      | .01              |      |      |                |           |                  |
| 4-12 | 1900 | 13.78          | 5520      | .02              | 4-16 | 0600 | 27.96          | 30300     | 6.82             |
| 4-12 | 2000 | 15.15          | 6750      | .04              | 4-16 | 1200 | 26.66          | 25000     | 7.16             |
| 4-12 | 2100 | 16.32          | 7980      | .05              | 4-16 | 1800 | 25.20          | 20900     | 7.45             |
| 4-12 | 2200 | 17.31          | 9170      | .07              | 4-16 | 2400 | 23.79          | 13300     | 7.69             |
| 4-12 | 2300 | 18.18          | 10200     | .09              |      |      |                |           |                  |
| 4-12 | 2400 | 18.99          | 11200     | .11              | 4-17 | 0600 | 21.53          | 14700     | 7.89             |
|      |      |                |           |                  | 4-17 | 1200 | 18.76          | 10600     | 8.05             |
| 4-13 | 0200 | 20.42          | 13000     | .16              | 4-17 | 1800 | 16.32          | 7750      | 8.16             |
| 4-13 | 0400 | 21.63          | 14800     | .22              | 4-17 | 2400 | 14.96          | 6360      | 8.25             |
| 4-13 | 0600 | 23.19          | 17300     | .28              |      |      |                |           |                  |
| 4-13 | 0800 | 24.77          | 20000     | .36              | 4-18 | 0600 | 13.96          | 5470      | 8.32             |
| 4-13 | 1000 | 26.46          | 24400     | .45              | 4-18 | 1200 | 13.25          | 4900      | 8.39             |
| 4-13 | 1200 | 28.46          | 32500     | .57              | 4-18 | 1800 | 12.79          | 4520      | 8.44             |
| 4-13 | 1600 |                | 44800     | .89              | 4-18 | 2400 | 12.39          | 4210      | 8.50             |
| 4-13 | 2000 |                | 49500     | 1.28             |      |      |                |           |                  |
| 4-13 | 2200 |                | 50200     | 1.48             | 4-19 | 1200 | 11.81          | 3750      | 8.60             |
| 4-13 | 2400 |                | 50000     | 1.69             | 4-19 | 2400 | 11.20          | 3260      | 8.68             |
|      |      |                |           |                  |      |      |                |           |                  |
| 4-14 | 0400 |                | 49200     | 2.10             | 4-20 | 1200 | 10.54          | 2730      | 3.76             |
| 4-14 | 0800 |                | 49200     | 2.50             | 4-20 | 2400 | 10.08          | 2410      | 3.82             |
| 4-14 | 1200 |                | 50300     | 2.91             |      |      |                |           |                  |
| 4-14 | 1600 |                | 52100     | 3.34             | 4-21 | 1200 | 9.81           | 2220      | 3.88             |
| 4-14 | 2000 |                | 53900     | 3.77             | 4-21 | 2400 | 9.53           | 2060      | 3.93             |
| 4-14 | 2200 |                | 54000     | 4.00             |      |      |                |           |                  |
| 4-14 | 2400 |                | 53000     | 4.22             |      |      |                |           |                  |

Note:-- Discharge estimated from reconstructed graph, Apr.13 at 1600 to Apr. 14 at 2400.

## Flood hydrograph data--Continued

## PASCAGOULA RIVER BASIN

02472500 Bowie Creek near Hattiesburg, Miss.

LOCATION.--Lat 31°25'32", long 89°24'53", in NW¼SW¼ sec.4, T.5 N., R.14 W., St. Stephens meridian, Forrest County, on left bank 25 ft (8 m) downstream from upstream bridge of dual bridges on U.S. Highway 49, 1 mile (2 km) upstream from Okatoma Creek, 2 miles (3 km) southwest of Lux, and 10 miles (16 km) northwest of Hattiesburg.

DRAINAGE AREA.--304 mi<sup>2</sup> (787 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 160.04 ft (48.780 m) above mean sea level (levels by Corps of Engineers). Prior to Dec. 8, 1938, nonrecording gage at same site and datum.

REMARKS.--See page 47 for complete water year data.

GAGE HEIGHT, IN FEET; DISCHARGE, IN CUBIC FEET PER SECOND; AND ACCUMULATED RUNOFF, IN INCHES, AT INDICATED TIME, 1974

| DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF | DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF |
|------|------|----------------|-----------|------------------|------|------|----------------|-----------|------------------|
| 4-12 | 1300 | 3.57           | 314       | .00              | 4-15 | 1400 |                | 22500     | 7.97             |
| 4-12 | 1800 | 3.90           | 380       | .00              | 4-15 | 1600 |                | 20400     | 8.19             |
| 4-12 | 2100 | 5.57           | 795       | .01              | 4-15 | 1800 |                | 18500     | 8.39             |
| 4-12 | 2200 | 7.26           | 1350      | .02              | 4-15 | 2000 |                | 16500     | 8.56             |
| 4-12 | 2300 | 9.15           | 2080      | .03              | 4-15 | 2200 |                | 14900     | 8.72             |
| 4-12 | 2400 | 10.75          | 2790      | .04              | 4-15 | 2400 |                | 13500     | 8.87             |
| 4-13 | 0100 | 12.16          | 3480      | .06              | 4-16 | 0200 |                | 12000     | 9.00             |
| 4-13 | 0200 | 13.21          | 4050      | .07              | 4-16 | 0600 |                | 9280      | 9.22             |
| 4-13 | 0400 | 14.57          | 4860      | .12              | 4-16 | 0800 |                | 8400      | 9.31             |
| 4-13 | 0600 | 15.57          | 5460      | .17              | 4-16 | 1000 |                | 7820      | 9.39             |
| 4-13 | 0800 | 16.49          | 6060      | .23              | 4-16 | 1200 | 19.06          | 7360      | 9.47             |
| 4-13 | 1200 | 17.97          | 7100      | .37              | 4-16 | 1600 | 18.02          | 6520      | 9.61             |
| 4-13 | 1400 | 18.42          | 7500      | .44              | 4-16 | 2000 | 16.89          | 5730      | 9.73             |
| 4-13 | 1800 | 19.02          | 8100      | .60              | 4-16 | 2400 | 15.65          | 5010      | 9.84             |
| 4-13 | 2400 | 19.85          | 9060      | .86              | 4-17 | 0200 | 15.02          | 4660      | 9.89             |
| 4-14 | 0200 | 20.52          | 10000     | .96              | 4-17 | 0400 | 14.36          | 4300      | 9.94             |
| 4-14 | 0400 | 21.93          | 13500     | 1.08             | 4-17 | 0600 | 13.68          | 3940      | 9.98             |
| 4-14 | 0500 | 22.97          | 17000     | 1.16             | 4-17 | 0800 | 12.63          | 3420      | 10.04            |
| 4-14 | 0600 | 24.18          | 21900     | 1.26             | 4-17 | 1200 | 11.63          | 2930      | 10.08            |
| 4-14 | 0700 | 25.25          | 27200     | 1.33             | 4-17 | 1500 | 10.67          | 2500      | 10.13            |
| 4-14 | 0800 | 25.98          | 31500     | 1.53             | 4-17 | 2100 | 9.15           | 1860      | 10.19            |
| 4-14 | 1000 | 27.22          | 38900     | 1.89             | 4-17 | 2300 | 8.81           | 1720      | 10.21            |
| 4-14 | 1400 |                | 43100     | 2.72             | 4-18 | 0200 | 8.42           | 1570      | 10.24            |
| 4-14 | 1800 |                | 95500     | 4.14             | 4-18 | 0600 | 8.00           | 1400      | 10.27            |
| 4-14 | 2000 |                | 45200     | 4.35             | 4-18 | 1200 | 7.44           | 1210      | 10.31            |
| 4-14 | 2400 |                | 40600     | 5.73             | 4-18 | 2400 | 6.69           | 993       | 10.37            |
| 4-15 | 0200 |                | 33100     | 6.13             | 4-19 | 1200 | 6.16           | 845       | 10.43            |
| 4-15 | 0400 |                | 35300     | 6.50             | 4-19 | 2400 | 5.83           | 752       | 10.48            |
| 4-15 | 0600 |                | 32700     | 6.85             |      |      |                |           |                  |
| 4-15 | 0800 |                | 29200     | 7.17             |      |      |                |           |                  |
| 4-15 | 1000 |                | 27200     | 7.46             | 4-20 | 1200 | 5.59           | 687       | 10.52            |
| 4-15 | 1200 |                | 24900     | 7.73             | 4-20 | 2400 | 5.41           | 641       | 10.56            |

Note:-- Discharge estimated from reconstructed graph  
Apr. 14 at 1400 to Apr. 16 at 1000.

## Flood hydrograph data--Continued

## PASCAGOULA RIVER BASIN

02473000 Leaf River at Hattiesburg, Miss.

LOCATION.--Lat 31°20'33", long 89°16'46", in SW¼NW¼ sec.2, T.4 N., R.13 W., St. Stephens meridian, Forrest County, on left bank at downstream side of bridge on U.S. Highway 11, at eastern city limits of Hattiesburg, 300 ft (90 m) downstream from Bowie Creek, 3,000 ft (900 m) upstream from New Orleans and Northeastern Railroad bridge, and at mile 71.8 (115.5 km).

DRAINAGE AREA.--1,760 mi<sup>2</sup> (4,560 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--September 1938 to current year. 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 (36.037 m) above mean sea level (levels by Corps of Engineers). Prior to Jan. 15, 1939, nonrecording gage at same site and datum.

REMARKS.--See page 48 for complete water year data.

GAGE HEIGHT, IN FEET; DISCHARGE, IN CURIC FEET PER SECOND; AND ACCUMULATED RUNOFF, IN INCHES, AT INDICATED TIME, 1974

| DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF | DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF |
|------|------|----------------|-----------|------------------|------|------|----------------|-----------|------------------|
| 4-12 | 1800 | 5.44           | 1880      | .00              | 4-15 | 1300 | 34.03          | 121000    | 2.43             |
| 4-12 | 2200 | 7.55           | 3600      | .00              | 4-15 | 1600 | 34.01          | 120000    | 2.75             |
| 4-12 | 2400 | 9.73           | 5360      | .01              | 4-15 | 2000 | 33.83          | 117000    | 3.17             |
|      |      |                |           |                  | 4-15 | 2400 | 33.63          | 110000    | 3.57             |
| 4-13 | 0100 | 11.20          | 7420      | .02              | 4-16 | 0400 | 33.30          | 102000    | 3.94             |
| 4-13 | 0200 | 12.76          | 9140      | .03              | 4-16 | 1000 | 32.65          | 88300     | 4.44             |
| 4-13 | 0300 | 14.19          | 10900     | .03              | 4-16 | 1300 | 31.55          | 72600     | 5.01             |
| 4-13 | 0500 | 16.33          | 14200     | .06              | 4-16 | 2400 | 30.64          | 63700     | 5.37             |
| 4-13 | 0700 | 17.86          | 16700     | .08              |      |      |                |           |                  |
| 4-13 | 0900 | 18.88          | 18600     | .12              | 4-17 | 0600 | 29.81          | 57700     | 5.69             |
| 4-13 | 1100 | 19.60          | 19900     | .15              | 4-17 | 1200 | 29.71          | 50900     | 5.98             |
| 4-13 | 1300 | 20.14          | 20900     | .19              | 4-17 | 1800 | 27.64          | 45000     | 6.23             |
| 4-13 | 1600 | 20.88          | 22400     | .24              | 4-17 | 2400 | 26.55          | 39600     | 6.45             |
| 4-13 | 1900 | 21.71          | 24300     | .30              |      |      |                |           |                  |
| 4-13 | 2200 | 22.26          | 25600     | .37              | 4-18 | 0600 | 25.17          | 34000     | 6.65             |
| 4-13 | 2400 | 22.57          | 26400     | .42              | 4-18 | 1200 | 23.84          | 29700     | 6.82             |
|      |      |                |           |                  | 4-18 | 1800 | 22.33          | 26000     | 6.96             |
| 4-14 | 0100 | 22.75          | 26900     | .44              | 4-18 | 2400 | 20.95          | 22500     | 7.09             |
| 4-14 | 0400 | 23.21          | 28000     | .51              |      |      |                |           |                  |
| 4-14 | 0700 | 23.68          | 29200     | .59              | 4-19 | 0600 | 19.47          | 19600     | 7.20             |
| 4-14 | 1000 | 24.14          | 30600     | .67              | 4-19 | 1200 | 17.61          | 16300     | 7.30             |
| 4-14 | 1300 | 25.01          | 33400     | .75              | 4-19 | 1800 | 15.35          | 12700     | 7.37             |
| 4-14 | 1500 | 25.92          | 36900     | .81              | 4-19 | 2400 | 12.92          | 9310      | 7.43             |
| 4-14 | 1600 | 26.51          | 39400     | .85              |      |      |                |           |                  |
| 4-14 | 1800 | 27.91          | 46400     | .92              | 4-20 | 0600 | 11.17          | 7300      | 7.48             |
| 4-14 | 1900 | 28.66          | 50600     | .96              | 4-20 | 1200 | 10.21          | 6330      | 7.51             |
| 4-14 | 2000 | 29.37          | 54900     | 1.01             | 4-20 | 1800 | 9.65           | 5720      | 7.55             |
| 4-14 | 2200 | 30.77          | 64800     | 1.12             | 4-20 | 2400 | 9.19           | 5210      | 7.57             |
| 4-14 | 2400 | 31.81          | 75700     | 1.24             |      |      |                |           |                  |
|      |      |                |           |                  | 4-21 | 0600 | 8.80           | 4800      | 7.60             |
| 4-15 | 0100 | 32.21          | 81000     | 1.31             | 4-21 | 1200 | 8.47           | 4470      | 7.62             |
| 4-15 | 0300 | 32.82          | 91400     | 1.46             | 4-21 | 2400 | 8.00           | 4000      | 7.67             |
| 4-15 | 0500 | 33.30          | 102000    | 1.63             |      |      |                |           |                  |
| 4-15 | 0700 | 33.62          | 110000    | 1.82             | 4-22 | 1200 | 7.64           | 3680      | 7.71             |
| 4-15 | 0900 | 33.82          | 115000    | 2.02             | 4-22 | 2400 | 7.56           | 3600      | 7.75             |
| 4-15 | 1200 | 33.99          | 120000    | 2.33             |      |      |                |           |                  |

## Flood hydrograph data--Continued

## PASCAGOULA RIVER BASIN

02473500 Tallahala Creek at Laurel, Miss.

LOCATION.--Lat 31°40'50", long 89°06'55", in NE¼NE¼ sec.8, T.8 N., R.11 W., St. Stephens meridian, Jones County, on right bank at downstream side of bridge on State Highway 15, 0.5 mile (0.8 km) upstream from Gulf, Mobile and Ohio Railroad bridge, 0.5 mile (0.8 km) southeast of city limits of Laurel, and 6 miles (10 km) upstream from Tallahoma Creek.

DRAINAGE AREA.--233 mi<sup>2</sup> (603 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 201.37 ft (61.378 m) above mean sea level (Mississippi State Highway Department bench mark). Prior to Dec. 14, 1938, nonrecording gage at same site and datum.

REMARKS.--See page 49 for complete water year data.

GAGE HEIGHT, IN FEET; DISCHARGE, IN CUBIC FEET PER SECOND; AND ACCUMULATED RUNOFF, IN INCHES, AT INDICATED TIME, 1974

| DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF | DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF |
|------|------|----------------|-----------|------------------|------|------|----------------|-----------|------------------|
| 4-12 | 1300 | 5.03           | 213       | .00              | 4-14 | 2100 |                | 20300     | 3.05             |
| 4-12 | 1500 | 5.84           | 294       | .00              | 4-14 | 2200 | 22.40          | 19700     | 3.19             |
| 4-12 | 1800 | 6.33           | 350       | .00              | 4-14 | 2400 | 22.17          | 18400     | 3.44             |
| 4-12 | 2100 | 10.65          | 1090      | .02              | 4-15 | 0300 | 21.67          | 16400     | 3.79             |
| 4-12 | 2400 | 11.50          | 1180      | .04              | 4-15 | 0600 | 21.21          | 14800     | 4.10             |
| 4-13 | 0400 | 12.55          | 1500      | .08              | 4-15 | 1200 | 20.12          | 11600     | 4.63             |
| 4-13 | 0800 | 13.41          | 1840      | .12              | 4-15 | 1800 | 19.25          | 9480      | 5.05             |
| 4-13 | 1100 | 14.46          | 2400      | .16              | 4-15 | 2400 | 18.47          | 7540      | 5.39             |
| 4-13 | 1600 | 16.00          | 3760      | .26              | 4-16 | 1200 | 17.31          | 5560      | 5.91             |
| 4-13 | 2100 | 16.19          | 3980      | .39              | 4-16 | 2400 | 16.47          | 4360      | 6.31             |
| 4-13 | 2400 | 17.51          | 5860      | .49              | 4-17 | 1200 | 15.73          | 3480      | 6.62             |
| 4-14 | 0200 | 19.01          | 8830      | .59              | 4-17 | 2400 | 15.20          | 2980      | 6.88             |
| 4-14 | 0400 | 20.47          | 12600     | .73              | 4-18 | 1200 | 14.74          | 2590      | 7.10             |
| 4-14 | 0600 | 21.51          | 15900     | .92              | 4-18 | 2400 | 14.29          | 2290      | 7.29             |
| 4-14 | 0700 | 21.90          | 17300     | 1.03             | 4-19 | 1200 | 13.77          | 2020      | 7.46             |
| 4-14 | 0800 | 22.17          | 18400     | 1.15             | 4-19 | 2400 | 13.07          | 1710      | 7.61             |
| 4-14 | 0900 |                | 20000     | 1.28             | 4-20 | 1200 | 11.65          | 1270      | 7.73             |
| 4-14 | 1000 |                | 21200     | 1.42             | 4-20 | 2400 | 8.64           | 736       | 7.81             |
| 4-14 | 1100 |                | 22000     | 1.56             | 4-21 | 1200 | 7.02           | 497       | 7.86             |
| 4-14 | 1200 |                | 22700     | 1.71             | 4-21 | 2400 | 6.51           | 426       | 7.90             |
| 4-14 | 1300 |                | 23000     | 1.86             | 4-22 | 1200 | 6.22           | 392       | 7.93             |
| 4-14 | 1400 |                | 23200     | 2.01             |      |      |                |           |                  |
| 4-14 | 1500 |                | 23300     | 2.17             |      |      |                |           |                  |
| 4-14 | 1600 |                | 23200     | 2.32             |      |      |                |           |                  |
| 4-14 | 1700 |                | 22900     | 2.48             |      |      |                |           |                  |
| 4-14 | 1800 |                | 22400     | 2.63             |      |      |                |           |                  |
| 4-14 | 1900 |                | 21900     | 2.77             |      |      |                |           |                  |
| 4-14 | 2000 |                | 21100     | 2.92             |      |      |                |           |                  |

Note.-- Discharge estimated from reconstructed graph  
Apr. 14 at 0900 to Apr. 14 at 2100.

## Flood hydrograph data--Continued

## PASCAGOULA RIVER BASIN

02474500 Tallahala Creek near Runnelstown, Miss.

LOCATION.--Lat 31°19'57", long 89°06'46", in SE¼SE¼ sec.5, T.4 N., R.11 W., St. Stephens meridian, Perry County, on right bank at downstream side of highway bridge between Sunrise and Runnelstown, 3 miles (5 km) south of Runnelstown, and 9 miles (14 km) upstream from mouth.

DRAINAGE AREA.--612 mi<sup>2</sup> (1,585 km<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 104.58 ft (31.876 m) above mean sea level. Prior to Oct. 1, 1971, at datum 5.00 ft (1.524 m) higher.

REMARKS.--See page 50 for complete water year data.

GAGE HEIGHT, IN FEET; DISCHARGE, IN CUBIC FEET PER SECOND; AND ACCUMULATED RUNOFF, IN INCHES, AT INDICATED TIME, 1974

| DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF | DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF |
|------|------|----------------|-----------|------------------|------|------|----------------|-----------|------------------|
| 4-12 | 1200 | 8.07           | 698       | .00              | 4-16 | 1300 | 28.25          | 27000     | 2.83             |
| 4-12 | 1800 | 8.02           | 678       | .01              | 4-16 | 2000 | 28.09          | 26200     | 2.97             |
| 4-12 | 2100 | 8.37           | 818       | .01              | 4-16 | 2200 | 27.91          | 25300     | 3.10             |
| 4-12 | 2400 | 10.72          | 1840      | .02              | 4-16 | 2400 | 27.72          | 24600     | 3.22             |
| 4-13 | 0200 | 12.78          | 2360      | .03              | 4-17 | 0200 | 27.50          | 23700     | 3.34             |
| 4-13 | 0400 | 14.80          | 3960      | .05              | 4-17 | 0400 | 27.26          | 22700     | 3.46             |
| 4-13 | 0600 | 16.11          | 4750      | .07              | 4-17 | 0600 | 26.99          | 21700     | 3.57             |
| 4-13 | 0800 | 16.99          | 5360      | .10              | 4-17 | 0800 | 26.74          | 20800     | 3.63             |
| 4-13 | 1000 | 17.55          | 5760      | .13              | 4-17 | 1000 | 26.48          | 19900     | 3.79             |
| 4-13 | 1200 | 17.96          | 6070      | .16              | 4-17 | 1200 | 26.22          | 19000     | 3.88             |
| 4-13 | 1400 | 18.27          | 6320      | .19              | 4-17 | 1400 | 25.97          | 18100     | 3.98             |
| 4-13 | 1600 | 18.50          | 6500      | .22              | 4-17 | 1600 | 25.73          | 17400     | 4.07             |
| 4-13 | 1800 | 18.72          | 6680      | .25              | 4-17 | 1800 | 25.50          | 16700     | 4.15             |
| 4-13 | 2000 | 19.10          | 6990      | .29              | 4-17 | 2000 | 25.27          | 16000     | 4.23             |
| 4-13 | 2200 | 19.46          | 7310      | .32              | 4-17 | 2200 | 25.03          | 15400     | 4.31             |
| 4-13 | 2400 | 19.73          | 7560      | .36              | 4-17 | 2400 | 24.83          | 14900     | 4.39             |
| 4-14 | 0200 | 19.94          | 7750      | .40              | 4-18 | 0400 | 24.42          | 13900     | 4.54             |
| 4-14 | 0400 | 20.11          | 7910      | .44              | 4-18 | 0800 | 24.02          | 13000     | 4.67             |
| 4-14 | 0600 | 20.24          | 8040      | .48              | 4-18 | 1200 | 23.63          | 12300     | 4.80             |
| 4-14 | 0800 | 20.35          | 8150      | .52              | 4-18 | 1600 | 23.21          | 11600     | 4.92             |
| 4-14 | 1000 | 20.47          | 8270      | .56              | 4-18 | 2000 | 22.78          | 11000     | 5.04             |
| 4-14 | 1200 | 20.54          | 8340      | .61              | 4-18 | 2400 | 22.34          | 10300     | 5.14             |
| 4-14 | 1400 | 20.62          | 8420      | .65              | 4-19 | 0400 | 21.87          | 9670      | 5.24             |
| 4-14 | 1600 | 20.68          | 8480      | .69              | 4-19 | 0800 | 21.38          | 9180      | 5.34             |
| 4-14 | 1800 | 20.76          | 8560      | .73              | 4-19 | 1200 | 20.89          | 8690      | 5.43             |
| 4-14 | 2000 | 20.83          | 8630      | .73              | 4-19 | 1600 | 20.39          | 8190      | 5.52             |
| 4-14 | 2200 | 20.93          | 8730      | .82              | 4-19 | 2000 | 19.89          | 7700      | 5.60             |
| 4-14 | 2400 | 21.03          | 8830      | .87              | 4-19 | 2400 | 19.39          | 7250      | 5.67             |
| 4-15 | 0200 | 21.16          | 8960      | .91              | 4-20 | 0400 | 18.88          | 6800      | 5.74             |
| 4-15 | 0400 | 21.33          | 9130      | .96              | 4-20 | 0800 | 18.34          | 6370      | 5.81             |
| 4-15 | 0600 | 21.54          | 9340      | 1.00             | 4-20 | 1200 | 17.37          | 6000      | 5.87             |
| 4-15 | 0800 | 21.83          | 9630      | 1.05             | 4-20 | 1600 | 17.44          | 5680      | 5.93             |
| 4-15 | 1000 | 22.21          | 10100     | 1.10             | 4-20 | 2000 | 16.95          | 5340      | 5.99             |
| 4-15 | 1200 | 22.67          | 10300     | 1.15             | 4-20 | 2400 | 16.54          | 5050      | 6.04             |
| 4-15 | 1400 | 23.22          | 11600     | 1.21             | 4-21 | 0600 | 15.93          | 4620      | 6.11             |
| 4-15 | 1600 | 23.88          | 12800     | 1.27             | 4-21 | 1200 | 15.24          | 4180      | 6.18             |
| 4-15 | 1800 | 24.65          | 14400     | 1.34             | 4-21 | 1800 | 14.39          | 3670      | 6.24             |
| 4-15 | 2000 | 25.49          | 16700     | 1.42             | 4-21 | 2400 | 13.14          | 2940      | 6.29             |
| 4-15 | 2200 | 26.33          | 19400     | 1.51             | 4-22 | 0600 | 11.89          | 2250      | 6.33             |
| 4-15 | 2400 | 27.03          | 22900     | 1.62             | 4-22 | 1200 | 11.01          | 1820      | 6.36             |
| 4-16 | 0200 | 27.56          | 23900     | 1.74             | 4-22 | 1800 | 10.57          | 1690      | 6.39             |
| 4-16 | 0400 | 27.96          | 25500     | 1.86             | 4-22 | 2400 | 10.33          | 1500      | 6.41             |
| 4-16 | 0600 | 28.20          | 26700     | 1.99             | 4-23 | 1200 | 10.26          | 1460      | 6.45             |
| 4-16 | 0800 | 28.35          | 27400     | 2.13             | 4-23 | 2400 | 10.23          | 1450      | 6.50             |
| 4-16 | 1000 | 28.43          | 27800     | 2.27             |      |      |                |           |                  |
| 4-16 | 1200 | 28.44          | 27900     | 2.41             |      |      |                |           |                  |
| 4-16 | 1400 | 28.42          | 27800     | 2.55             |      |      |                |           |                  |
| 4-16 | 1600 | 28.34          | 27400     | 2.69             |      |      |                |           |                  |



## Flood hydrograph data--Continued

## PASCAGOULA RIVER BASIN

02474600 Bogue Homo near Richton, Miss.

LOCATION.--Lat 31°24'12", long 89°01'18", in NE¼NW¼ sec.17, T.5 N., R.10 W., St. Stephens meridian, Perry County, at bridge on county highway, 0.5 mile (0.8 km) upstream from Linda Creek, 1.0 mile (1.6 km) downstream from Sweetwater Creek, 3.5 miles (5.6 km) upstream from State Highway 42, and 6.0 miles (9.7 km) northwest of Richton.

DRAINAGE AREA.--344 mi<sup>2</sup> (891 km<sup>2</sup>).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1944, 1955-56, 1965. October 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 117 ft or 35.7 m (from topographic map).

REMARKS.--See page 51 for complete water year data.

GAGE HEIGHT, IN FEET; DISCHARGE, IN CUBIC FEET PER SECOND; AND ACCUMULATED RUNOFF, IN INCHES, AT INDICATED TIME, 1974

| DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF | DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF |
|------|------|----------------|-----------|------------------|------|------|----------------|-----------|------------------|
| 4-12 | 1200 | 5.25           | 289       | .00              | 4-15 | 1700 | 23.26          | 12100     | 2.15             |
| 4-12 | 1600 | 5.22           | 280       | .00              | 4-15 | 2000 | 23.25          | 12100     | 2.32             |
| 4-12 | 2000 | 5.52           | 370       | .01              | 4-15 | 2400 | 23.02          | 11700     | 2.53             |
| 4-12 | 2200 | 6.74           | 823       | .01              |      |      |                |           |                  |
| 4-12 | 2400 | 8.14           | 1490      | .02              | 4-16 | 0200 | 22.83          | 11500     | 2.63             |
|      |      |                |           |                  | 4-16 | 0800 | 21.90          | 10500     | 2.93             |
| 4-13 | 0200 | 9.64           | 2290      | .04              | 4-16 | 1400 | 20.60          | 9420      | 3.20             |
| 4-13 | 0400 | 10.65          | 2850      | .06              | 4-16 | 1800 | 19.41          | 8590      | 3.36             |
| 4-13 | 0600 | 11.05          | 3070      | .09              | 4-16 | 2400 | 17.71          | 7400      | 3.58             |
| 4-13 | 1200 | 11.35          | 3230      | .17              |      |      |                |           |                  |
| 4-13 | 1600 | 12.03          | 3610      | .24              | 4-17 | 0600 | 15.94          | 6160      | 3.76             |
| 4-13 | 2000 | 13.49          | 4490      | .31              | 4-17 | 1200 | 14.13          | 4940      | 3.91             |
| 4-13 | 2200 | 14.54          | 5180      | .35              | 4-17 | 1600 | 13.22          | 4360      | 4.00             |
| 4-13 | 2400 | 15.38          | 5770      | .40              | 4-17 | 2000 | 12.57          | 3930      | 4.07             |
|      |      |                |           |                  | 4-17 | 2400 | 11.36          | 3510      | 4.14             |
| 4-14 | 0200 | 15.80          | 6060      | .45              |      |      |                |           |                  |
| 4-14 | 0600 | 16.86          | 6800      | .57              | 4-18 | 0400 | 11.40          | 3260      | 4.20             |
| 4-14 | 0800 | 17.24          | 7070      | .63              | 4-18 | 0800 | 10.91          | 2980      | 4.25             |
| 4-14 | 1000 | 17.98          | 7500      | .70              | 4-18 | 1200 | 10.55          | 2790      | 4.31             |
| 4-14 | 1400 | 19.36          | 8550      | .94              | 4-18 | 1800 | 10.13          | 2560      | 4.38             |
| 4-14 | 1800 | 20.53          | 9370      | 1.01             | 4-18 | 2400 | 9.69           | 2320      | 4.45             |
| 4-14 | 2200 | 21.47          | 10100     | 1.13             |      |      |                |           |                  |
| 4-14 | 2400 | 21.84          | 10400     | 1.27             | 4-19 | 1200 | 9.08           | 1980      | 4.56             |
|      |      |                |           |                  | 4-19 | 2400 | 8.57           | 1700      | 4.66             |
| 4-15 | 0200 | 22.18          | 10800     | 1.37             |      |      |                |           |                  |
| 4-15 | 0600 | 22.65          | 11300     | 1.57             | 4-20 | 1200 | 8.06           | 1450      | 4.75             |
| 4-15 | 1000 | 22.97          | 11700     | 1.78             | 4-20 | 2400 | 7.46           | 1150      | 4.82             |
| 4-15 | 1400 | 23.18          | 12000     | 1.99             |      |      |                |           |                  |

## Flood hydrograph data--Continued

## PASCAGOULA RIVER BASIN

02475000 Leaf River near McLain, Miss.

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 miles (1.9 km) east of McLain, 2 miles (3 km) downstream from Atkinson Creek, 6 miles (10 km) upstream from Big Oktibbee Creek, and 14.6 miles (23.5 km) upstream from confluence with Chickasawhay River.

DRAINAGE AREA.--3,510 mi<sup>2</sup> (9,090 km<sup>2</sup>), approximately.

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 (12.847 m) above mean sea level. Prior to Sept. 8, 1940, nonrecording gage at same site and datum.

REMARKS.--See page 52 for complete water year data.

GAGE HEIGHT, IN FEET; DISCHARGE, IN CUBIC FEET PER SECOND; AND ACCUMULATED RUNOFF, IN INCHES,  
AT INDICATED TIME, 1974

| DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF | DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF |
|------|------|----------------|-----------|------------------|------|------|----------------|-----------|------------------|
| 4-12 | 1200 | 7.16           | 4260      | .00              | 4-18 | 1000 | 30.25          | 109000    | 3.08             |
| 4-12 | 1800 | 7.05           | 4150      | .01              | 4-18 | 1200 | 30.21          | 108000    | 3.18             |
| 4-12 | 2000 | 7.01           | 4110      | .01              | 4-18 | 1600 | 29.96          | 105000    | 3.37             |
| 4-12 | 2200 | 7.16           | 4260      | .01              | 4-18 | 2000 | 29.76          | 102000    | 3.55             |
| 4-12 | 2400 | 7.49           | 4590      | .02              | 4-18 | 2400 | 29.37          | 97400     | 3.73             |
| 4-13 | 0200 | 8.33           | 5460      | .02              | 4-19 | 0400 | 29.01          | 93100     | 3.89             |
| 4-13 | 0400 | 9.78           | 7140      | .03              | 4-19 | 0800 | 28.67          | 89100     | 4.05             |
| 4-13 | 0600 | 11.52          | 9430      | .03              | 4-19 | 1200 | 28.23          | 84200     | 4.21             |
| 4-13 | 0800 | 13.04          | 11800     | .04              | 4-19 | 1600 | 27.87          | 80300     | 4.35             |
| 4-13 | 1000 | 14.28          | 13700     | .06              | 4-19 | 2000 | 27.42          | 75700     | 4.49             |
| 4-13 | 1200 | 15.29          | 15400     | .07              | 4-19 | 2400 | 27.06          | 72100     | 4.62             |
| 4-13 | 1400 | 16.02          | 16500     | .08              | 4-20 | 0400 | 26.65          | 68200     | 4.75             |
| 4-13 | 1600 | 16.64          | 17600     | .10              | 4-20 | 0800 | 26.23          | 64400     | 4.86             |
| 4-13 | 1800 | 17.10          | 18400     | .11              | 4-20 | 1200 | 25.87          | 61100     | 4.97             |
| 4-13 | 2000 | 17.77          | 19600     | .13              | 4-20 | 1600 | 25.44          | 57500     | 5.08             |
| 4-13 | 2200 | 18.38          | 20300     | .15              | 4-20 | 2000 | 25.06          | 54500     | 5.18             |
| 4-13 | 2400 | 18.93          | 22000     | .17              | 4-20 | 2400 | 24.74          | 52200     | 5.27             |
| 4-14 | 0200 | 19.47          | 23400     | .19              | 4-21 | 0600 | 24.16          | 48100     | 5.40             |
| 4-14 | 0400 | 19.94          | 24800     | .21              | 4-21 | 1200 | 23.59          | 44200     | 5.53             |
| 4-14 | 0600 | 20.35          | 26100     | .23              | 4-21 | 1800 | 22.99          | 40600     | 5.64             |
| 4-14 | 0800 | 20.75          | 27800     | .25              | 4-21 | 2400 | 22.38          | 37000     | 5.74             |
| 4-14 | 1000 | 21.06          | 29300     | .29              | 4-22 | 0600 | 21.70          | 32900     | 5.83             |
| 4-14 | 1200 | 21.41          | 31200     | .31              | 4-22 | 1200 | 20.90          | 28500     | 5.92             |
| 4-14 | 1400 | 21.71          | 33000     | .33              | 4-22 | 1800 | 19.92          | 24800     | 5.99             |
| 4-14 | 1600 | 21.96          | 34500     | .36              | 4-22 | 2400 | 18.65          | 21300     | 6.05             |
| 4-14 | 1800 | 22.17          | 35700     | .40              | 4-23 | 0600 | 17.18          | 18500     | 6.10             |
| 4-14 | 2000 | 22.36          | 36900     | .43              | 4-23 | 1200 | 15.63          | 15800     | 6.14             |
| 4-14 | 2200 | 22.58          | 38200     | .46              | 4-23 | 1800 | 14.27          | 13700     | 6.18             |
| 4-14 | 2400 | 22.75          | 39200     | .49              | 4-23 | 2400 | 13.22          | 12100     | 6.22             |
| 4-15 | 0300 | 22.98          | 40600     | .55              | 4-24 | 0600 | 12.52          | 10900     | 6.25             |
| 4-15 | 0600 | 23.20          | 41900     | .60              | 4-24 | 1200 | 12.09          | 10200     | 6.28             |
| 4-15 | 0900 | 23.38          | 43000     | .66              | 4-24 | 1800 | 11.87          | 9830      | 6.30             |
| 4-15 | 1200 | 23.55          | 44000     | .72              | 4-24 | 2400 | 11.76          | 9660      | 6.33             |
| 4-15 | 1800 | 23.78          | 45500     | .83              | 4-25 | 1200 | 11.59          | 9380      | 6.38             |
| 4-15 | 2400 | 24.12          | 47800     | .96              | 4-25 | 2400 | 11.40          | 9080      | 6.43             |
| 4-16 | 0600 | 24.57          | 51000     | 1.09             | 4-26 | 1200 | 11.25          | 8840      | 6.48             |
| 4-16 | 1200 | 25.24          | 55900     | 1.23             | 4-26 | 2400 | 11.08          | 8570      | 6.52             |
| 4-16 | 1800 | 26.25          | 64600     | 1.39             | 4-27 | 1200 | 10.74          | 8020      | 6.57             |
| 4-16 | 2400 | 27.41          | 75600     | 1.58             | 4-28 | 1200 | 9.64           | 6360      | 6.64             |
| 4-17 | 0600 | 28.64          | 88700     | 1.79             | 4-29 | 1200 | 8.74           | 5180      | 6.70             |
| 4-17 | 1200 | 29.50          | 99000     | 2.04             |      |      |                |           |                  |
| 4-17 | 1800 | 30.06          | 106000    | 2.31             |      |      |                |           |                  |
| 4-17 | 2400 | 30.31          | 109000    | 2.60             |      |      |                |           |                  |
| 4-18 | 0200 | 30.37          | 110000    | 2.70             |      |      |                |           |                  |
| 4-18 | 0800 | 30.33          | 110000    | 2.99             |      |      |                |           |                  |

## Flood hydrograph data--Continued

## PASCAGOULA RIVER BASIN

02479000 Pascagoula River at Merrill, Miss.

LOCATION.--Lat 30°58'40", long 88°43'35", in SW¼ sec.18, T.1 S., R.7 W., St. Stephens meridian, George County, near right bank on downstream side of bridge on highway between Merrill and Avent, 0.5 mile (0.8 km) downstream from confluence of Leaf and Chickasawhay Rivers, 0.5 mile (0.8 km) west of Merrill, and at mile 80.8 (130 km).

DRAINAGE AREA.--6,600 mi<sup>2</sup> (17,100 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--October 1930 to current year. Monthly discharge only for October and November 1930, published in WSP 1304. 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 (8.001 m) above mean sea level. Prior to Dec. 6, 1934, nonrecording gage at same site and datum.

REMARKS.--See page 59 for complete water year data.

GAGE HEIGHT, IN FEET; DISCHARGE, IN CUBIC FEET PER SECOND; AND ACCUMULATED RUNOFF, IN INCHES,  
AT INDICATED TIME, 1974

| DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF | DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF |
|------|------|----------------|-----------|------------------|------|------|----------------|-----------|------------------|
| 4-12 | 1200 | 10.16          | 9990      | .00              | 4-18 | 0600 |                | 12400     | 1.79             |
| 4-12 | 1800 | 9.85           | 9460      | .01              | 4-18 | 1200 |                | 130000    | 1.97             |
| 4-12 | 2100 | 9.73           | 9260      | .02              | 4-18 | 1800 |                | 135000    | 2.16             |
| 4-12 | 2400 | 9.80           | 9380      | .02              | 4-18 | 2400 |                | 138000    | 2.35             |
| 4-13 | 0300 | 10.15          | 9970      | .03              | 4-19 | 0600 |                | 138000    | 2.54             |
| 4-13 | 0600 | 10.99          | 11500     | .04              | 4-19 | 1200 |                | 134000    | 2.74             |
| 4-13 | 0900 | 12.66          | 14700     | .05              | 4-19 | 1800 |                | 128000    | 2.92             |
| 4-13 | 1200 | 14.23          | 18300     | .06              | 4-19 | 2400 |                | 122000    | 3.10             |
| 4-13 | 1500 | 15.57          | 21500     | .07              | 4-20 | 0600 |                | 116000    | 3.26             |
| 4-13 | 1800 | 16.51          | 24000     | .09              | 4-20 | 1200 |                | 111000    | 3.42             |
| 4-13 | 2100 | 17.24          | 26200     | .10              | 4-20 | 1800 |                | 106000    | 3.58             |
| 4-13 | 2400 | 17.94          | 28500     | .12              | 4-20 | 2400 |                | 100000    | 3.65             |
| 4-14 | 0300 | 18.55          | 30700     | .14              | 4-21 | 0600 |                | 95500     | 3.72             |
| 4-14 | 0600 | 19.09          | 32700     | .17              | 4-21 | 1200 |                | 91200     | 3.85             |
| 4-14 | 0900 | 19.61          | 34800     | .19              | 4-21 | 1800 |                | 87200     | 3.98             |
| 4-14 | 1200 | 19.96          | 36100     | .22              | 4-21 | 2400 |                | 82400     | 4.10             |
| 4-14 | 1500 | 20.67          | 39100     | .24              | 4-22 | 1200 |                | 73800     | 4.32             |
| 4-14 | 1800 | 20.89          | 40200     | .27              | 4-22 | 2400 |                | 66000     | 4.51             |
| 4-14 | 2100 | 21.35          | 42900     | .30              | 4-23 | 1200 |                | 58000     | 4.69             |
| 4-14 | 2400 | 21.78          | 45800     | .33              | 4-23 | 2400 |                | 51500     | 4.84             |
| 4-15 | 0300 | 22.15          | 48600     | .36              | 4-24 | 0600 |                | 48400     | 4.91             |
| 4-15 | 0600 | 22.30          | 49800     | .40              | 4-24 | 1200 | 21.84          | 46100     | 4.98             |
| 4-15 | 0900 | 22.74          | 53600     | .44              | 4-24 | 2400 | 21.18          | 41800     | 5.10             |
| 4-15 | 1200 | 23.04          | 56500     | .47              | 4-25 | 1200 | 20.51          | 38300     | 5.22             |
| 4-15 | 1500 | 23.27          | 59100     | .51              | 4-25 | 2400 | 19.67          | 34900     | 5.32             |
| 4-15 | 1800 | 23.39          | 60500     | .56              | 4-26 | 1200 | 18.70          | 31200     | 5.41             |
| 4-15 | 2100 | 23.52          | 62300     | .60              | 4-26 | 2400 | 17.67          | 27600     | 5.49             |
| 4-15 | 2400 | 23.79          | 66200     | .65              | 4-27 | 2400 | 15.22          | 20600     | 5.63             |
| 4-16 | 0600 | 24.09          | 70700     | .74              | 4-28 | 2400 | 13.12          | 15600     | 5.73             |
| 4-16 | 1100 | 24.32          | 74200     | .83              | 4-29 | 2400 | 11.55          | 12500     | 5.81             |
| 4-16 | 1800 | 24.48          | 76300     | .95              |      |      |                |           |                  |
| 4-16 | 2400 | 24.86          | 82900     | 1.06             |      |      |                |           |                  |
| 4-17 | 0600 | 25.32          | 90200     | 1.19             |      |      |                |           |                  |
| 4-17 | 0300 | 25.60          | 94700     | 1.23             |      |      |                |           |                  |
| 4-17 | 1200 |                | 98100     | 1.32             |      |      |                |           |                  |
| 4-17 | 1800 |                | 108000    | 1.46             |      |      |                |           |                  |
| 4-17 | 2400 |                | 117000    | 1.62             |      |      |                |           |                  |

Note:-- Discharge estimated from reconstructed graph  
Apr. 17 at 1200 to Apr. 24 at 0600.

## Flood hydrograph data--Continued

## PASCAGOULA RIVER BASIN

02479130 Black Creek near Brooklyn, Miss.

LOCATION.--Lat 31°03'06", long 89°12'16", in NW¼NE¼ sec.16, T.1 N., R.12 W., St. Stephens meridian, Forrest County, at bridge on U.S. Highway 49, 1.1 miles (1.8 km) southwest of Brooklyn, and 4.5 miles (7.2 km) upstream from Chaney Creek.

DRAINAGE AREA.--361 mi<sup>2</sup> (935 km<sup>2</sup>).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1954-57, 1959, 1964-66. October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 128.14 ft (39.057 m) above mean sea level (Mississippi State Highway Department bench mark).

EXTREMES.--See page 60 for complete water year data.

GAGE HEIGHT, IN FEET; DISCHARGE, IN CURIC FEET PER SECOND; AND ACCUMULATED RUNOFF, IN INCHES, AT INDICATED TIME, 1974

| DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF | DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF |
|------|------|----------------|-----------|------------------|------|------|----------------|-----------|------------------|
| 4-12 | 0600 |                | 496       | .00              | 4-15 | 0400 |                | 14600     | 3.02             |
| 4-12 | 1200 |                | 490       | .01              | 4-15 | 0800 |                | 13100     | 3.26             |
| 4-12 | 1600 |                | 586       | .02              | 4-15 | 1200 |                | 11800     | 3.47             |
| 4-12 | 1800 |                | 1080      | .02              | 4-15 | 1800 |                | 9990      | 3.75             |
| 4-12 | 2000 |                | 1760      | .04              | 4-15 | 2400 | 20.00          | 8700      | 3.99             |
| 4-12 | 2200 |                | 2600      | .05              |      |      |                |           |                  |
| 4-12 | 2400 |                | 3500      | .08              | 4-16 | 0600 | 18.88          | 7480      | 4.20             |
|      |      |                |           |                  | 4-16 | 1200 | 17.81          | 6570      | 4.38             |
| 4-13 | 0200 |                | 4260      | .11              | 4-16 | 1800 | 16.55          | 5730      | 4.54             |
| 4-13 | 0400 |                | 5040      | .15              | 4-16 | 2400 | 15.25          | 4950      | 4.68             |
| 4-13 | 0600 |                | 5580      | .20              |      |      |                |           |                  |
| 4-13 | 0800 |                | 6100      | .25              | 4-17 | 0600 | 13.87          | 4120      | 4.79             |
| 4-13 | 1000 |                | 6630      | .30              | 4-17 | 1200 | 12.75          | 3480      | 4.89             |
| 4-13 | 1200 |                | 7120      | .36              | 4-17 | 1800 | 11.88          | 3040      | 4.97             |
| 4-13 | 1400 |                | 7610      | .43              | 4-17 | 2400 | 11.13          | 2660      | 5.05             |
| 4-13 | 1600 |                | 8170      | .49              |      |      |                |           |                  |
| 4-13 | 1800 |                | 8700      | .57              | 4-18 | 1200 | 10.09          | 2140      | 5.17             |
| 4-13 | 2000 |                | 10500     | .65              | 4-18 | 2400 | 9.34           | 1730      | 5.27             |
| 4-13 | 2200 |                | 12500     | .75              |      |      |                |           |                  |
| 4-13 | 2400 |                | 14200     | .86              | 4-19 | 1200 | 8.85           | 1580      | 5.36             |
|      |      |                |           |                  | 4-19 | 2400 | 8.44           | 1420      | 5.44             |
| 4-14 | 0200 |                | 16200     | .99              |      |      |                |           |                  |
| 4-14 | 0400 |                | 18100     | 1.14             | 4-20 | 1200 | 8.09           | 1280      | 5.51             |
| 4-14 | 0600 |                | 19500     | 1.30             | 4-20 | 2400 | 7.77           | 1150      | 5.57             |
| 4-14 | 0800 |                | 20300     | 1.47             |      |      |                |           |                  |
| 4-14 | 1000 |                | 20400     | 1.65             | 4-21 | 1200 | 7.54           | 1060      | 5.62             |
| 4-14 | 1200 |                | 20100     | 1.82             | 4-21 | 2400 | 7.35           | 989       | 5.68             |
| 4-14 | 1400 |                | 19500     | 1.99             |      |      |                |           |                  |
| 4-14 | 1600 |                | 18900     | 2.16             | 4-22 | 1200 | 7.23           | 943       | 5.73             |
| 4-14 | 1800 |                | 18200     | 2.32             | 4-22 | 2400 | 7.17           | 921       | 5.78             |
| 4-14 | 2100 |                | 17000     | 2.54             |      |      |                |           |                  |
| 4-14 | 2400 |                | 16000     | 2.75             | 4-23 | 1200 | 7.38           | 1000      | 5.82             |
|      |      |                |           |                  | 4-23 | 2400 | 7.37           | 997       | 5.83             |

Note:-- Discharge estimated from reconstructed graph  
Apr. 12 to Apr. 15 at 1800.

## Flood hydrograph data--Continued

## PEARL RIVER BASIN

02487710 Barretts Branch near Pinola, Miss.

LOCATION.--Lat 31°52'50", long 90°02'40", in NE¼NE¼SE¼ sec.36, T.1 N., R.2 E., Choctaw meridian, Simpson County, at a 10x10 ft (3.05x3.05 m) box culvert on State Highway 28, 5 miles (8 km) west of Pinola.

DRAINAGE AREA.--0.88 mi<sup>2</sup> (2.28 km<sup>2</sup>).PERIOD OF RECORD.--April 1955 to current year (annual peaks only prior to May 1965; all peaks above 70 ft<sup>3</sup>/s or 1.98 m<sup>3</sup>/s thereafter).

GAGE.--Water-stage recorder. Prior to May 18, 1965, crest-stage gage. May 18, 1965, to Sept. 14, 1971, circular-chart recorder, all at same site and datum.

GAGE HEIGHT, IN FEET; DISCHARGE, IN CUBIC FEET PER SECOND; AND ACCUMULATED RUNOFF, IN INCHES, AT INDICATED TIME, 1974

| DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF | DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF |
|------|------|----------------|-----------|------------------|------|------|----------------|-----------|------------------|
| 4-12 | 0710 | 1.97           | 5.1       | .00              | 4-13 | 0200 | 3.10           | 55        | 9.24             |
| 4-12 | 0730 | 2.67           | 23        | .00              | 4-13 | 0300 | 2.91           | 42        | 9.33             |
| 4-12 | 0800 | 2.72           | 30        | .06              | 4-13 | 0400 | 2.77           | 33        | 9.40             |
| 4-12 | 0830 | 3.28           | 68        | .11              | 4-13 | 0500 | 2.65           | 27        | 9.45             |
| 4-12 | 0900 | 3.66           | 94        | .27              | 4-13 | 0600 | 2.54           | 21        | 9.49             |
| 4-12 | 0930 | 3.72           | 93        | .36              | 4-13 | 0700 | 2.46           | 17        | 9.52             |
| 4-12 | 1000 | 3.89           | 111       | .57              | 4-13 | 0800 | 2.40           | 15        | 9.55             |
| 4-12 | 1030 | 3.91           | 113       | .67              | 4-13 | 0900 | 2.41           | 15        | 9.58             |
| 4-12 | 1100 | 3.80           | 104       | .89              | 4-13 | 1000 | 2.71           | 30        | 9.62             |
| 4-12 | 1130 | 3.59           | 89        | .98              | 4-13 | 1100 | 3.73           | 99        | 9.73             |
| 4-12 | 1200 | 3.46           | 80        | 1.15             | 4-13 | 1130 | 4.11           | 129       | 9.83             |
| 4-12 | 1230 | 3.50           | 83        | 1.22             | 4-13 | 1200 | 4.25           | 140       | 10.11            |
| 4-12 | 1300 | 3.89           | 111       | 1.42             | 4-13 | 1215 | 4.33           | 146       | 10.17            |
| 4-12 | 1330 | 4.27           | 142       | 1.54             | 4-13 | 1230 | 4.40           | 152       | 10.24            |
| 4-12 | 1400 | 4.45           | 156       | 1.74             | 4-13 | 1245 | 4.49           | 159       | 10.31            |
| 4-12 | 1430 | 4.54           | 164       | 1.98             | 4-13 | 1300 | 4.51           | 161       | 10.56            |
| 4-12 | 1445 | 4.60           | 169       | 2.06             | 4-13 | 1315 | 4.48           | 158       | 10.63            |
| 4-12 | 1500 | 4.66           | 174       | 2.33             | 4-13 | 1330 | 4.43           | 154       | 10.70            |
| 4-12 | 1515 | 4.85           | 192       | 2.41             | 4-13 | 1345 | 4.39           | 151       | 10.77            |
| 4-12 | 1530 | 4.99           | 204       | 2.50             | 4-13 | 1400 | 4.28           | 142       | 11.01            |
| 4-12 | 1545 | 5.23           | 228       | 2.60             | 4-13 | 1430 | 4.09           | 127       | 11.12            |
| 4-12 | 1600 | 5.43           | 248       | 2.98             | 4-13 | 1500 | 3.84           | 107       | 11.36            |
| 4-12 | 1615 | 5.78           | 233       | 3.10             | 4-13 | 1530 | 3.62           | 91        | 11.45            |
| 4-12 | 1630 | 6.02           | 307       | 3.23             | 4-13 | 1600 | 3.55           | 87        | 11.63            |
| 4-12 | 1645 | 6.28           | 333       | 3.37             | 4-13 | 1630 | 3.89           | 111       | 11.72            |
| 4-12 | 1700 | 6.82           | 387       | 3.95             | 4-13 | 1645 | 4.81           | 188       | 11.79            |
| 4-12 | 1715 | 7.51           | 461       | 4.13             | 4-13 | 1700 | 5.07           | 212       | 12.11            |
| 4-12 | 1730 | 7.99           | 514       | 4.35             | 4-13 | 1715 | 5.23           | 228       | 12.21            |
| 4-12 | 1745 | 8.16           | 534       | 4.58             | 4-13 | 1730 | 5.49           | 254       | 12.31            |
| 4-12 | 1750 | 8.27           | 547       | 4.66             | 4-13 | 1745 | 5.74           | 279       | 12.43            |
| 4-12 | 1800 | 8.21           | 540       | 5.46             | 4-13 | 1800 | 6.40           | 345       | 12.93            |
| 4-12 | 1815 | 8.04           | 520       | 5.69             | 4-13 | 1815 | 6.56           | 361       | 13.09            |
| 4-12 | 1830 | 7.75           | 498       | 5.91             | 4-13 | 1830 | 6.22           | 327       | 13.24            |
| 4-12 | 1845 | 7.32           | 440       | 6.12             | 4-13 | 1845 | 5.77           | 282       | 13.38            |
| 4-12 | 1900 | 6.85           | 390       | 6.79             | 4-13 | 1900 | 5.40           | 245       | 13.80            |
| 4-12 | 1915 | 6.26           | 331       | 6.95             | 4-13 | 1930 | 4.79           | 186       | 13.99            |
| 4-12 | 1930 | 5.84           | 289       | 7.08             | 4-13 | 2000 | 4.38           | 150       | 14.34            |
| 4-12 | 1945 | 5.46           | 251       | 7.20             | 4-13 | 2030 | 4.07           | 126       | 14.46            |
| 4-12 | 2000 | 5.11           | 216       | 7.58             | 4-13 | 2100 | 3.73           | 99        | 14.69            |
| 4-12 | 2015 | 4.88           | 194       | 7.67             | 4-13 | 2130 | 3.41           | 77        | 14.77            |
| 4-12 | 2030 | 4.71           | 179       | 7.75             | 4-13 | 2200 | 3.16           | 59        | 14.91            |
| 4-12 | 2100 | 4.43           | 154       | 8.09             | 4-13 | 2300 | 2.80           | 35        | 14.99            |
| 4-12 | 2130 | 4.18           | 134       | 8.22             | 4-13 | 2400 | 2.63           | 26        | 15.04            |
| 4-12 | 2200 | 3.98           | 118       | 8.48             |      |      |                |           |                  |
| 4-12 | 2230 | 3.79           | 103       | 8.57             | 4-14 | 0200 | 2.46           | 17        | 15.12            |
| 4-12 | 2300 | 3.63           | 92        | 8.77             | 4-14 | 0400 | 2.35           | 14        | 15.17            |
| 4-12 | 2330 | 3.49           | 82        | 8.95             | 4-14 | 0600 | 2.28           | 12        | 15.22            |
| 4-12 | 2400 | 3.40           | 76        | 9.01             | 4-14 | 0800 | 2.23           | 10        | 15.26            |
| 4-13 | 0100 | 3.24           | 65        | 9.14             |      |      |                |           |                  |



## Flood hydrograph data--Continued

## PEARL RIVER BASIN

02488340 Small Pine ditch near Monticello, Miss.

LOCATION.--Lat 31°32'50", long 90°15'40", in SW¼SW¼NW¼ sec.25, T.7 N., R.9 E., Washington meridian, Lawrence County, at a 6x6 ft (1.83x1.83 m) box culvert on U.S. Highway 84, 9 miles (14 km) west of Monticello.

DRAINAGE AREA.--0.16 mi<sup>2</sup> (0.41 km<sup>2</sup>).

PERIOD OF RECORD.--April 1955 to current year (annual peaks only prior to April 1975; all peaks above 30 ft<sup>3</sup>/s or 0.85 m<sup>3</sup>/s) thereafter).

GAGE.--Water-stage recorder. Prior to April 27, 1965, crest-stage gage at same site and datum.

GAGE HEIGHT, IN FEET; DISCHARGE, IN CUBIC FEET PER SECOND; AND ACCUMULATED RUNOFF, IN INCHES,  
AT INDICATED TIME, 1974

| DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF | DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF |
|------|------|----------------|-----------|------------------|------|------|----------------|-----------|------------------|
| 4-12 | 1100 | 2.49           | 6.4       | .00              | 4-13 | 0300 | 2.88           | 14        | 7.73             |
| 4-12 | 1200 | 2.99           | 17        | .11              | 4-13 | 0600 | 2.76           | 11        | 8.10             |
| 4-12 | 1215 | 3.25           | 25        | .16              | 4-13 | 0700 | 3.14           | 21        | 8.25             |
| 4-12 | 1230 | 3.43           | 30        | .23              | 4-13 | 0800 | 3.46           | 31        | 8.50             |
| 4-12 | 1245 | 3.36           | 23        | .30              | 4-13 | 0900 | 3.08           | 19        | 8.75             |
| 4-12 | 1300 | 3.23           | 24        | .53              | 4-13 | 1000 | 2.98           | 16        | 8.92             |
| 4-12 | 1400 | 2.95           | 16        | .72              | 4-13 | 1015 | 3.06           | 19        | 8.96             |
| 4-12 | 1500 | 2.93           | 15        | .87              | 4-13 | 1030 | 4.18           | 57        | 9.05             |
| 4-12 | 1600 | 3.51           | 32        | 1.10             | 4-13 | 1045 | 5.98           | 142       | 9.29             |
| 4-12 | 1615 | 4.23           | 50        | 1.21             | 4-13 | 1055 | 6.56           | 175       | 9.55             |
| 4-12 | 1630 | 4.86           | 96        | 1.38             | 4-13 | 1100 | 6.50           | 171       | 10.80            |
| 4-12 | 1645 | 4.71           | 79        | 1.58             | 4-13 | 1115 | 5.63           | 125       | 11.16            |
| 4-12 | 1700 | 4.14           | 56        | 2.18             | 4-13 | 1130 | 5.04           | 95        | 11.43            |
| 4-12 | 1730 | 3.69           | 38        | 2.41             | 4-13 | 1200 | 4.79           | 83        | 12.43            |
| 4-12 | 1745 | 4.70           | 78        | 2.55             | 4-13 | 1230 | 4.12           | 55        | 12.77            |
| 4-12 | 1800 | 5.70           | 128       | 3.47             | 4-13 | 1300 | 3.54           | 33        | 13.27            |
| 4-12 | 1815 | 6.01           | 144       | 3.79             | 4-13 | 1400 | 3.13           | 21        | 13.53            |
| 4-12 | 1830 | 5.69           | 128       | 4.12             | 4-13 | 1500 | 2.98           | 16        | 13.71            |
| 4-12 | 1845 | 5.31           | 109       | 4.41             | 4-13 | 1800 | 2.81           | 12        | 14.11            |
| 4-12 | 1900 | 4.95           | 91        | 5.30             | 4-13 | 2100 | 2.72           | 10        | 14.43            |
| 4-12 | 2000 | 3.88           | 45        | 5.96             | 4-13 | 2400 | 2.65           | 9.9       | 14.71            |
| 4-12 | 2100 | 3.77           | 41        | 6.37             |      |      |                |           |                  |
| 4-12 | 2200 | 3.49           | 32        | 6.73             |      |      |                |           |                  |
| 4-12 | 2300 | 3.28           | 25        | 7.00             |      |      |                |           |                  |
| 4-12 | 2400 | 3.14           | 21        | 7.23             |      |      |                |           |                  |

## Flood hydrograph data--Continued

## PEARL RIVER BASIN

02488500 Pearl River near Monticello, Miss.

LOCATION.--Lat 31°33', long 90°05', in SW¼ sec.23, T.7 N., R.21 W., St. Stephens meridian, Lawrence County, near left bank on downstream side of pier of bridge on U.S. Highway 84, 1.0 mile (1.6 km) east of Monticello, 2.5 miles (4.0 km) upstream from Halls Creek, 3 miles (5 km) upstream from Silver Creek, and at mile 190.8 (307.0 km).

DRAINAGE AREA.--5,040 mi<sup>2</sup> (13,050 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--October 1938 to current year. Gage-height records collected in vicinity since 1924, are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 158.66 ft (48.360 m) above mean sea level (levels by 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.--See page 73 for complete water year data.

GAGE HEIGHT, IN FEET; DISCHARGE, IN CUBIC FEET PER SECOND; AND ACCUMULATED RUNOFF, IN INCHES, AT INDICATED TIME, 1974

| DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF | DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF |
|------|------|----------------|-----------|------------------|------|------|----------------|-----------|------------------|
| 4-12 | 0600 | 13.93          | 8900      | .00              | 4-14 | 1800 | 31.87          | 75300     | .93              |
| 4-12 | 0800 | 13.87          | 8800      | .00              | 4-14 | 2000 | 31.75          | 74400     | .97              |
| 4-12 | 1000 | 13.90          | 8850      | .01              | 4-14 | 2200 | 31.64          | 73700     | 1.02             |
| 4-12 | 1200 | 14.30          | 9480      | .01              | 4-14 | 2400 | 31.52          | 72800     | 1.06             |
| 4-12 | 1400 | 15.74          | 11800     | .02              |      |      |                |           |                  |
| 4-12 | 1600 | 17.55          | 14700     | .03              | 4-15 | 0300 | 31.35          | 71600     | 1.13             |
| 4-12 | 1800 | 19.92          | 18900     | .04              | 4-15 | 0600 | 31.18          | 70500     | 1.19             |
| 4-12 | 2000 | 22.26          | 24000     | .05              | 4-15 | 0900 | 31.00          | 69200     | 1.26             |
| 4-12 | 2200 | 24.00          | 29200     | .07              | 4-15 | 1200 | 30.33          | 68000     | 1.32             |
| 4-12 | 2400 | 25.36          | 34800     | .09              | 4-15 | 1500 | 30.65          | 66800     | 1.38             |
|      |      |                |           |                  | 4-15 | 1800 | 30.49          | 65600     | 1.45             |
| 4-13 | 0200 | 26.15          | 38800     | .11              | 4-15 | 2100 | 30.33          | 64500     | 1.51             |
| 4-13 | 0400 | 26.82          | 42400     | .13              | 4-15 | 2400 | 30.18          | 63500     | 1.56             |
| 4-13 | 0600 | 27.61          | 47200     | .16              |      |      |                |           |                  |
| 4-13 | 0800 | 28.29          | 51200     | .19              | 4-16 | 0600 | 29.85          | 61200     | 1.68             |
| 4-13 | 1000 | 28.69          | 53600     | .22              | 4-16 | 1200 | 29.55          | 59000     | 1.79             |
| 4-13 | 1200 | 29.20          | 56700     | .26              | 4-16 | 1800 | 29.25          | 57000     | 1.90             |
| 4-13 | 1400 | 29.59          | 59300     | .29              | 4-16 | 2400 | 28.96          | 55300     | 2.00             |
| 4-13 | 1600 | 29.95          | 61800     | .33              |      |      |                |           |                  |
| 4-13 | 1800 | 30.40          | 65600     | .37              | 4-17 | 1200 | 29.45          | 52200     | 2.20             |
| 4-13 | 2000 | 30.90          | 68500     | .41              | 4-17 | 2400 | 27.97          | 49300     | 2.39             |
| 4-13 | 2200 | 31.45          | 72400     | .45              |      |      |                |           |                  |
| 4-13 | 2400 | 31.87          | 75300     | .50              | 4-18 | 1200 | 27.52          | 46600     | 2.56             |
|      |      |                |           |                  | 4-18 | 2400 | 27.10          | 44100     | 2.73             |
| 4-14 | 0200 | 32.12          | 77000     | .55              |      |      |                |           |                  |
| 4-14 | 0400 | 32.20          | 77600     | .59              | 4-19 | 1200 | 26.75          | 42000     | 2.89             |
| 4-14 | 0600 | 32.23          | 78200     | .64              | 4-19 | 2400 | 26.49          | 40400     | 3.04             |
| 4-14 | 0800 | 32.27          | 78100     | .69              |      |      |                |           |                  |
| 4-14 | 1000 | 32.22          | 77700     | .74              | 4-20 | 1200 | 26.29          | 39400     | 3.19             |
| 4-14 | 1200 | 32.16          | 77300     | .79              | 4-20 | 2400 | 26.12          | 38600     | 3.33             |
| 4-14 | 1400 | 32.08          | 76800     | .83              |      |      |                |           |                  |
| 4-14 | 1600 | 31.93          | 76100     | .88              | 4-21 | 1200 | 26.03          | 38200     | 3.47             |

## Flood hydrograph data--Continued

## PEARL RIVER BASIN

02488510 Roadside Park ditch near Monticello, Miss.

LOCATION.--Lat 31°34'30", long 90°03'20", in SW¼SE¼NW¼ sec.18, T.7 N., R.12 E., St. Stephens meridian, Lawrence County, at an 8x4 ft (2.43x2.43 m) box culvert on U.S. Highway 84, 3.0 miles (4.8 km) east of Monticello.

DRAINAGE AREA.--0.25 mi<sup>2</sup> (0.65 km<sup>2</sup>).

PERIOD OF RECORD.--April 1955 to current year (Annual peaks only prior to May 1965; all peaks above 50 ft<sup>3</sup>/s or 1.42 m<sup>3</sup>/s) thereafter).

GAGE.--Water-stage recorder. Prior to May 18, 1965, crest-stage gage. May 18, 1965, to Sept. 28, 1971, circular-chart recorder, all at same site and datum.

GAGE HEIGHT, IN FEET; DISCHARGE, IN CUBIC FEET PER SECOND; AND ACCUMULATED RUNOFF, IN INCHES, AT INDICATED TIME, 1974

| DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF | DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF |
|------|------|----------------|-----------|------------------|------|------|----------------|-----------|------------------|
| 4-12 | 1230 | 2.16           | 0         | .00              | 4-13 | 0100 | 3.10           | 34        | 10.73            |
| 4-12 | 1300 | 2.68           | 17        | .06              | 4-13 | 0200 | 2.93           | 27        | 10.91            |
| 4-12 | 1330 | 3.26           | 40        | .14              | 4-13 | 0300 | 2.71           | 18        | 11.05            |
| 4-12 | 1400 | 4.22           | 88        | .61              | 4-13 | 0400 | 2.52           | 11        | 11.14            |
| 4-12 | 1415 | 4.46           | 103       | .76              | 4-13 | 0500 | 2.43           | 7.2       | 11.20            |
| 4-12 | 1430 | 4.43           | 101       | .91              | 4-13 | 0730 | 2.42           | 6.8       | 11.31            |
| 4-12 | 1500 | 3.81           | 68        | 1.52             | 4-13 | 0745 | 2.62           | 15        | 11.33            |
| 4-12 | 1530 | 3.13           | 35        | 1.63             | 4-13 | 0800 | 2.95           | 28        | 11.45            |
| 4-12 | 1600 | 2.80           | 22        | 1.89             | 4-13 | 0815 | 3.41           | 48        | 11.51            |
| 4-12 | 1700 | 2.64           | 16        | 2.01             | 4-13 | 0830 | 3.76           | 65        | 11.59            |
| 4-12 | 1730 | 2.90           | 26        | 2.07             | 4-13 | 0845 | 3.72           | 63        | 11.69            |
| 4-12 | 1745 | 3.98           | 76        | 2.15             | 4-13 | 0900 | 3.47           | 51        | 12.02            |
| 4-12 | 1800 | 5.78           | 189       | 2.91             | 4-13 | 1000 | 2.74           | 20        | 12.24            |
| 4-12 | 1820 | 7.06           | 289       | 3.40             | 4-13 | 1100 | 2.59           | 14        | 12.34            |
| 4-12 | 1830 | 6.97           | 282       | 3.69             | 4-13 | 1130 | 2.99           | 30        | 12.41            |
| 4-12 | 1845 | 6.74           | 263       | 4.12             | 4-13 | 1145 | 3.67           | 61        | 12.48            |
| 4-12 | 1900 | 6.60           | 252       | 5.58             | 4-13 | 1200 | 4.78           | 122       | 13.00            |
| 4-12 | 2000 | 6.30           | 228       | 7.07             | 4-13 | 1215 | 5.63           | 178       | 13.23            |
| 4-12 | 2015 | 5.99           | 203       | 7.40             | 4-13 | 1225 | 5.77           | 188       | 13.42            |
| 4-12 | 2030 | 5.51           | 170       | 7.69             | 4-13 | 1230 | 5.76           | 187       | 13.52            |
| 4-12 | 2045 | 4.92           | 130       | 7.92             | 4-13 | 1245 | 5.31           | 156       | 13.79            |
| 4-12 | 2100 | 4.36           | 97        | 8.57             | 4-13 | 1300 | 4.89           | 128       | 14.59            |
| 4-12 | 2130 | 3.68           | 61        | 8.31             | 4-13 | 1330 | 4.34           | 95        | 14.94            |
| 4-12 | 2200 | 3.55           | 55        | 9.23             | 4-13 | 1400 | 3.73           | 64        | 15.51            |
| 4-12 | 2230 | 3.64           | 59        | 9.41             | 4-13 | 1430 | 3.28           | 41        | 15.68            |
| 4-12 | 2300 | 3.72           | 63        | 9.85             | 4-13 | 1500 | 2.92           | 27        | 15.92            |
| 4-12 | 2330 | 3.52           | 53        | 10.03            | 4-13 | 1600 | 2.51           | 10        | 16.04            |
| 4-12 | 2400 | 3.22           | 39        | 10.36            | 4-13 | 1700 | 2.42           | 6.8       | 16.09            |
|      |      |                |           |                  | 4-13 | 1800 | 2.36           | 4.8       | 16.12            |
| 4-13 | 0030 | 3.13           | 35        | 10.48            | 4-13 | 2400 | 2.22           | 1         | 16.23            |

## Flood hydrograph data--Continued

## PEARL RIVER BASIN

02488700 Whitesand Creek near Oak Vale, Miss.

LOCATION.--Lat 31°28', long 89°58', in SW¼ sec.24, T.6 N., R.20 W., St. Stephens meridian, Lawrence County, near right bank on downstream side of bridge on State Highway 43, 1.2 miles (1.9 km) upstream from Illinois Central Railroad bridge, 2.3 miles (3.7 km) north of Oak Vale, and 3.7 miles (6.0 km) upstream from mouth.

DRAINAGE AREA.--131 mi<sup>2</sup> (339 km<sup>2</sup>).

PERIOD OF RECORD.--September 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 182.20 ft (55.535 m) above mean sea level (from information by Mississippi State Highway Department).

REMARKS.--See page 74 for complete water year data.

GAGE HEIGHT, IN FEET; DISCHARGE, IN CUBIC FEET PER SECOND; AND ACCUMULATED RUNOFF, IN INCHES, AT INDICATED TIME, 1974

| DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF | DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF |
|------|------|----------------|-----------|------------------|------|------|----------------|-----------|------------------|
| 4-12 | 0600 | 3.82           | 143       | .00              | 4-14 | 1200 | 12.96          | 7050      | 6.67             |
| 4-12 | 1200 | 4.09           | 199       | .01              | 4-14 | 1500 | 11.76          | 5510      | 6.89             |
| 4-12 | 1400 | 4.88           | 409       | .01              | 4-14 | 1800 | 10.91          | 4610      | 7.07             |
| 4-12 | 1500 | 5.11           | 494       | .02              | 4-14 | 2400 | 9.49           | 3290      | 7.35             |
| 4-12 | 1800 | 5.34           | 586       | .04              |      |      |                |           |                  |
| 4-12 | 1900 | 6.74           | 1320      | .05              | 4-15 | 0300 | 8.86           | 2800      | 7.46             |
| 4-12 | 2000 | 9.19           | 3050      | .08              | 4-15 | 0600 | 8.34           | 2440      | 7.55             |
| 4-12 | 2100 | 10.76          | 4460      | .12              | 4-15 | 0900 | 7.89           | 2120      | 7.63             |
| 4-12 | 2200 | 12.38          | 6200      | .18              | 4-15 | 1200 | 7.60           | 1920      | 7.70             |
| 4-12 | 2400 | 13.80          | 8250      | .36              | 4-15 | 1800 | 7.20           | 1640      | 7.83             |
|      |      |                |           |                  | 4-15 | 2400 | 6.94           | 1460      | 7.94             |
| 4-13 | 0200 | 14.16          | 3310      | .56              |      |      |                |           |                  |
| 4-13 | 0300 | 15.15          | 10600     | .67              | 4-16 | 0600 | 6.64           | 1250      | 8.03             |
| 4-13 | 0400 | 16.52          | 14400     | .82              | 4-16 | 1200 | 6.28           | 1040      | 8.12             |
| 4-13 | 0500 | 17.52          | 18800     | 1.02             | 4-16 | 1800 | 5.82           | 800       | 8.18             |
| 4-13 | 0600 | 18.31          | 22900     | 1.26             | 4-16 | 2400 | 5.45           | 628       | 8.23             |
| 4-13 | 0800 | 18.64          | 24700     | 1.83             |      |      |                |           |                  |
| 4-13 | 1000 | 18.19          | 22200     | 2.38             | 4-17 | 0300 | 5.35           | 582       | 8.25             |
| 4-13 | 1200 | 17.44          | 18400     | 2.86             | 4-17 | 0600 | 5.26           | 542       | 8.27             |
| 4-13 | 1500 | 17.14          | 17000     | 3.49             | 4-17 | 1200 | 5.13           | 487       | 8.31             |
| 4-13 | 1800 | 16.62          | 14300     | 4.05             | 4-17 | 2400 | 4.94           | 411       | 8.37             |
| 4-13 | 2100 | 15.81          | 12000     | 4.53             |      |      |                |           |                  |
| 4-13 | 2400 | 16.51          | 14300     | 5.00             | 4-18 | 1200 | 4.82           | 365       | 8.43             |
|      |      |                |           |                  | 4-18 | 2400 | 4.73           | 332       | 8.48             |
| 4-14 | 0300 | 16.81          | 15600     | 5.53             |      |      |                |           |                  |
| 4-14 | 0600 | 15.71          | 11900     | 6.01             | 4-19 | 1200 | 4.67           | 311       | 8.52             |
| 4-14 | 0900 | 14.26          | 8970      | 6.38             | 4-19 | 2400 | 4.61           | 290       | 8.57             |

## Flood hydrograph data--Continued

## PEARL RIVER BASIN

02489030 Elmers Draw near Columbia, Miss.

LOCATION.--Lat 31°12'00", long 89°58'00", in SE½SE¼NW¼ sec.26, T.3 N., R.12 E., Washington meridian, Marion County, at a 10x10 ft (3.05x3.05 m) box culvert on U.S. Highway 98, 5.7 miles (9.2 km) west of Columbia.

DRAINAGE AREA.--0.91 mi<sup>2</sup> (2.36 km<sup>2</sup>).

PERIOD OF RECORD.--April 1955 to current year (annual peaks only prior to April 1965; all peaks above 80 ft<sup>3</sup>/s or 2.27 m<sup>3</sup>/s thereafter)

GAGE.--Water-stage recorder. Prior to April 29, 1965, crest-stage gage at same site and datum.

GAGE HEIGHT, IN FEET; DISCHARGE, IN CUBIC FEET PER SECOND; AND ACCUMULATED RUNOFF, IN INCHES,  
AT INDICATED TIME, 1974

| DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF | DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF |
|------|------|----------------|-----------|------------------|------|------|----------------|-----------|------------------|
| 4-12 | 1900 | 2.37           | 8.1       | .00              | 4-12 | 2345 | 5.80           | 228       | 2.22             |
| 4-12 | 1915 | 2.48           | 11        | .00              | 4-12 | 2400 | 5.45           | 197       | 2.55             |
| 4-12 | 1930 | 2.99           | 31        | .01              |      |      |                |           |                  |
| 4-12 | 1945 | 3.43           | 53        | .03              | 4-13 | 0015 | 5.09           | 168       | 2.63             |
| 4-12 | 2000 | 3.67           | 67        | .12              | 4-13 | 0030 | 4.71           | 138       | 2.70             |
| 4-12 | 2030 | 4.27           | 106       | .19              | 4-13 | 0045 | 4.37           | 113       | 2.75             |
| 4-12 | 2100 | 4.98           | 159       | .46              | 4-13 | 0100 | 4.15           | 93        | 2.91             |
| 4-12 | 2130 | 5.47           | 199       | .61              | 4-13 | 0130 | 3.79           | 74        | 2.99             |
| 4-12 | 2200 | 6.05           | 251       | 1.06             | 4-13 | 0200 | 3.55           | 60        | 3.12             |
| 4-12 | 2215 | 6.33           | 276       | 1.17             | 4-13 | 0300 | 3.35           | 49        | 3.21             |
| 4-12 | 2230 | 6.48           | 290       | 1.29             | 4-13 | 0400 | 3.29           | 46        | 3.29             |
| 4-12 | 2245 | 6.57           | 299       | 1.41             | 4-13 | 0600 | 3.16           | 39        | 3.44             |
| 4-12 | 2300 | 6.57           | 299       | 1.88             | 4-13 | 0900 | 2.83           | 23        | 3.60             |
| 4-12 | 2330 | 6.12           | 257       | 2.12             | 4-13 | 1200 | 2.62           | 16        | 3.70             |



## Flood hydrograph data--Continued

## PEARL RIVER BASIN

02490500 Bogue Chitto near Tylertown, Miss.

LOCATION.--Lat 31°11', long 90°17', in SE¼ sec.34, T.3 N., R.9 E., Washington meridian, Pike County, near right bank on downstream side of bridge on U.S. Highway 98, 0.2 mile (0.3 km) upstream from Fernwood, Columbia and Gulf Railroad bridge, 0.2 mile (0.3 km) upstream from Bars Branch, 2.2 miles (3.5 km) downstream from Topisaw Creek, and 9 miles (14 km) northwest of Tylertown.

DRAINAGE AREA.--502 mi<sup>2</sup> (1,300 km<sup>2</sup>).

PERIOD OF RECORD.--August 1944 to current year.

GAGE.--Water-stage recorder. Datum of gage is 227.40 ft (69.312 m) above mean sea level.

REMARKS.--See page 76 for complete water year data.

GAGE HEIGHT, IN FEET; DISCHARGE, IN CUBIC FEET PER SECOND; AND ACCUMULATED RUNOFF, IN INCHES,  
AT INDICATED TIME, 1974

| DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF | DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF |
|------|------|----------------|-----------|------------------|------|------|----------------|-----------|------------------|
| 4-12 | 0600 | 7.13           | 505       | .00              | 4-14 | 1800 | 30.79          | 33500     | 3.16             |
| 4-12 | 1800 | 7.38           | 534       | .02              | 4-14 | 2400 | 30.26          | 31700     | 3.76             |
| 4-12 | 2000 | 8.19           | 882       | .02              |      |      |                |           |                  |
| 4-12 | 2100 | 9.14           | 1320      | .02              | 4-15 | 0400 | 29.40          | 29200     | 4.14             |
| 4-12 | 2200 | 10.08          | 1860      | .03              | 4-15 | 0800 | 28.00          | 26000     | 4.48             |
| 4-12 | 2400 | 11.80          | 3100      | .04              | 4-15 | 1000 | 27.06          | 24100     | 4.64             |
|      |      |                |           |                  | 4-15 | 1200 | 26.16          | 22300     | 4.78             |
| 4-13 | 0200 | 13.47          | 4520      | .07              | 4-15 | 1500 | 24.58          | 19200     | 4.97             |
| 4-13 | 0400 | 14.60          | 5600      | .10              | 4-15 | 1800 | 22.92          | 16100     | 5.13             |
| 4-13 | 0600 | 16.27          | 7270      | .14              | 4-15 | 2200 | 20.87          | 12700     | 5.31             |
| 4-13 | 0700 | 17.36          | 8360      | .16              | 4-15 | 2400 | 19.99          | 11400     | 5.39             |
| 4-13 | 0800 | 18.75          | 9820      | .19              |      |      |                |           |                  |
| 4-13 | 0900 | 20.57          | 12300     | .22              | 4-16 | 0300 | 18.74          | 9810      | 5.49             |
| 4-13 | 1000 | 22.87          | 16000     | .27              | 4-16 | 0700 | 17.40          | 8400      | 5.60             |
| 4-13 | 1100 | 25.11          | 20200     | .32              | 4-16 | 1200 | 16.17          | 7170      | 5.72             |
| 4-13 | 1200 | 26.90          | 23800     | .39              | 4-16 | 1800 | 14.94          | 5940      | 5.84             |
| 4-13 | 1300 | 28.18          | 26400     | .47              | 4-16 | 2400 | 14.04          | 5040      | 5.94             |
| 4-13 | 1400 | 29.12          | 28500     | .55              |      |      |                |           |                  |
| 4-13 | 1500 | 29.73          | 30100     | .64              | 4-17 | 0600 | 13.15          | 4240      | 6.03             |
| 4-13 | 1700 | 30.19          | 31400     | .83              | 4-17 | 1200 | 12.47          | 3640      | 6.10             |
| 4-13 | 2000 | 29.79          | 30300     | 1.12             | 4-17 | 2400 | 11.20          | 2650      | 6.22             |
| 4-13 | 2200 | 29.34          | 29100     | 1.30             |      |      |                |           |                  |
| 4-13 | 2400 | 28.92          | 28100     | 1.48             | 4-18 | 0600 | 10.18          | 1930      | 6.26             |
|      |      |                |           |                  | 4-18 | 1200 | 9.50           | 1510      | 6.29             |
| 4-14 | 0400 | 28.74          | 27600     | 1.82             | 4-18 | 2400 | 8.89           | 1200      | 6.34             |
| 4-14 | 0700 | 29.26          | 28900     | 2.09             |      |      |                |           |                  |
| 4-14 | 1000 | 29.91          | 30600     | 2.36             | 4-19 | 1200 | 8.55           | 1030      | 6.38             |
| 4-14 | 1300 | 30.48          | 32400     | 2.65             | 4-19 | 2400 | 8.30           | 907       | 6.42             |

## Flood hydrograph data--Continued

## BAYOU PIERRE BASIN

07290650 Bayou Pierre near Willows, Miss.

LOCATION.--Lat 32°00'55", long 90°53'00", in lot 16, T.12 N., R.3 E., Washington meridian, Claiborne County, near right bank at downstream side of bridge on county highway, 1.4 miles (2.3 km) upstream from South Fork Bayou Pierre, and 1.7 miles (2.7 km) southeast of Willows.

DRAINAGE AREA.--653 mi<sup>2</sup> (1,691 km<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 (25.097 m) above mean sea level. Sept. 9, 1958, to May 31, 1961, crest-stage gage at same site and datum.

REMARKS.--See page 108 for complete water year data.

GAGE HEIGHT, IN FEET; DISCHARGE, IN CUBIC FEET PER SECOND; AND ACCUMULATED RUNOFF, IN INCHES, AT INDICATED TIME, 1974

| DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF | DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF |
|------|------|----------------|-----------|------------------|------|------|----------------|-----------|------------------|
| 4-11 | 2400 | 4.06           | 168       | .00              | 4-14 | 0600 | 26.55          | 39700     | 3.47             |
| 4-12 | 0300 | 4.04           | 164       | .00              | 4-14 | 1000 | 26.64          | 41000     | 3.86             |
| 4-12 | 0600 | 4.72           | 383       | .00              | 4-14 | 1300 | 26.60          | 40400     | 4.15             |
| 4-12 | 0700 | 5.33           | 690       | .00              | 4-14 | 1700 | 26.45          | 38400     | 4.52             |
| 4-12 | 0800 | 6.23           | 1140      | .00              | 4-14 | 2200 | 26.37          | 37400     | 4.97             |
| 4-12 | 0900 | 7.67           | 2060      | .01              | 4-14 | 2400 | 26.33          | 37000     | 5.15             |
| 4-12 | 1000 | 9.58           | 3520      | .01              | 4-15 | 0100 | 26.26          | 36200     | 5.23             |
| 4-12 | 1100 | 12.02          | 5920      | .02              | 4-15 | 0400 | 26.15          | 35200     | 5.49             |
| 4-12 | 1200 | 14.55          | 8450      | .04              | 4-15 | 0700 | 25.84          | 32900     | 5.73             |
| 4-12 | 1300 | 17.91          | 12200     | .06              | 4-15 | 0900 | 25.55          | 30800     | 5.88             |
| 4-12 | 1400 | 20.45          | 16100     | .10              | 4-15 | 1100 | 25.00          | 27500     | 6.02             |
| 4-12 | 1500 | 21.66          | 18100     | .14              | 4-15 | 1200 | 24.59          | 25600     | 6.08             |
| 4-12 | 1600 | 22.39          | 19400     | .18              | 4-15 | 1300 | 24.05          | 23600     | 6.14             |
| 4-12 | 1700 | 22.98          | 20600     | .23              | 4-15 | 1400 | 23.33          | 21400     | 6.19             |
| 4-12 | 1800 | 23.31          | 21400     | .28              | 4-15 | 1500 | 22.47          | 19600     | 6.24             |
| 4-12 | 2000 | 23.90          | 23100     | .39              | 4-15 | 1600 | 21.55          | 17900     | 6.29             |
| 4-12 | 2200 | 24.29          | 24400     | .50              | 4-15 | 1700 | 20.55          | 16200     | 6.33             |
| 4-12 | 2400 | 24.66          | 25800     | .62              | 4-15 | 2000 |                | 12000     | 6.43             |
| 4-13 | 0100 | 24.87          | 26800     | .68              | 4-15 | 2400 |                | 7800      | 6.52             |
| 4-13 | 0300 | 25.14          | 28300     | .81              | 4-16 | 0300 |                | 7100      | 6.57             |
| 4-13 | 0500 | 25.46          | 30300     | .95              | 4-16 | 0600 |                | 6050      | 6.62             |
| 4-13 | 0700 | 25.76          | 32300     | 1.10             | 4-16 | 0900 |                | 5300      | 6.66             |
| 4-13 | 0900 | 26.19          | 35500     | 1.26             | 4-16 | 1200 |                | 4600      | 6.70             |
| 4-13 | 1100 | 26.46          | 38500     | 1.44             | 4-16 | 1800 |                | 3810      | 6.76             |
| 4-13 | 1300 | 26.81          | 43300     | 1.63             | 4-16 | 2400 |                | 3320      | 6.81             |
| 4-13 | 1400 | 26.97          | 45600     | 1.73             | 4-17 | 0200 |                | 3190      | 6.82             |
| 4-13 | 1600 | 27.21          | 49200     | 1.96             | 4-17 | 0800 |                | 2870      | 6.87             |
| 4-13 | 1700 | 27.25          | 49800     | 2.08             | 4-17 | 1600 |                | 2500      | 6.92             |
| 4-13 | 1800 | 27.30          | 50500     | 2.20             | 4-17 | 2400 |                | 2270      | 6.96             |
| 4-13 | 1900 | 27.27          | 50000     | 2.32             | 4-18 | 0200 |                | 2250      | 6.97             |
| 4-13 | 2000 | 27.19          | 48800     | 2.43             | 4-18 | 0800 |                | 2180      | 7.00             |
| 4-13 | 2200 | 27.05          | 46800     | 2.66             | 4-18 | 1600 |                | 1890      | 7.04             |
| 4-13 | 2400 | 26.89          | 44500     | 2.88             | 4-18 | 2400 |                | 1780      | 7.08             |
| 4-14 | 0200 | 26.74          | 42400     | 3.08             |      |      |                |           |                  |

Note.-- Discharge estimated from reconstructed graph Apr. 15 at 2000 to Apr. 18 at 2400.

## Flood hydrograph data--Continued

## HOMOCHITTO RIVER BASIN

07291000 Homochitto River at Eddiceton, Miss.

LOCATION.--Lat 31°30'10", long 90°46'35", in SE¼NE¼ sec.11, T.6 N., R.4 E., Washington meridian, Franklin County, on left bank at upstream side of Mississippi Central Railroad bridge, 900 ft (270 m) downstream from bridge on U.S. Highway 84, 0.4 mile (0.6 km) upstream from McCall Creek, and 0.8 mile (1.3 km) east of Eddiceton.

DRAINAGE AREA.--180 mi<sup>2</sup> (470 km<sup>2</sup>), approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 217.22 ft (66.209 m) above mean sea level. Prior to May 26, 1942, nonrecording gage at site 900 ft (270 m) upstream at present datum.

REMARKS.--See page 109 for complete water year data.

GAGE HEIGHT, IN FEET; DISCHARGE, IN CUBIC FEET PER SECOND; AND ACCUMULATED RUNOFF, IN INCHES,  
AT INDICATED TIME, 1974

| DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF | DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF |
|------|------|----------------|-----------|------------------|------|------|----------------|-----------|------------------|
| 4-12 | 1300 | 1.15           | 172       | .00              | 4-13 | 2300 | 16.39          | 30600     | 8.05             |
| 4-12 | 1600 | 1.26           | 202       | .00              | 4-13 | 2400 | 15.66          | 27000     | 8.30             |
| 4-12 | 1700 | 2.03           | 464       | .00              |      |      |                |           |                  |
| 4-12 | 1800 | 8.14           | 8100      | .04              | 4-14 | 0200 | 14.02          | 21600     | 8.72             |
| 4-12 | 1900 | 11.45          | 15100     | .14              | 4-14 | 0300 | 13.05          | 19000     | 8.89             |
| 4-12 | 2000 | 13.29          | 19700     | .29              | 4-14 | 0400 | 11.84          | 16000     | 9.04             |
| 4-12 | 2100 | 14.66          | 23400     | .47              | 4-14 | 0600 | 8.49           | 8680      | 9.25             |
| 4-12 | 2200 | 15.47          | 26200     | .69              | 4-14 | 0800 | 6.09           | 4660      | 9.37             |
| 4-12 | 2400 | 16.14          | 29200     | 1.17             | 4-14 | 1100 | 6.95           | 6010      | 9.51             |
|      |      |                |           |                  | 4-14 | 1300 | 9.17           | 9970      | 9.64             |
| 4-13 | 0200 | 16.03          | 28700     | 1.66             | 4-14 | 1500 | 8.75           | 9160      | 9.81             |
| 4-13 | 0400 | 15.33          | 25600     | 2.13             | 4-14 | 1700 | 7.66           | 7190      | 9.95             |
| 4-13 | 0500 | 14.82          | 23900     | 2.34             | 4-14 | 2000 | 5.93           | 4260      | 10.10            |
| 4-13 | 0600 | 14.39          | 22600     | 2.54             | 4-14 | 2400 | 4.49           | 2530      | 10.21            |
| 4-13 | 0800 | 13.91          | 21300     | 2.92             |      |      |                |           |                  |
| 4-13 | 0900 | 14.21          | 22100     | 3.11             | 4-15 | 0300 | 3.71           | 1830      | 10.27            |
| 4-13 | 1000 | 15.14          | 24900     | 3.31             | 4-15 | 0800 | 2.96           | 1220      | 10.34            |
| 4-13 | 1100 | 16.07          | 28900     | 3.54             | 4-15 | 1200 | 2.60           | 980       | 10.37            |
| 4-13 | 1200 | 16.91          | 33700     | 3.81             | 4-15 | 1800 | 2.35           | 832       | 10.42            |
| 4-13 | 1300 | 17.63          | 38500     | 4.12             | 4-15 | 2400 | 2.10           | 695       | 10.46            |
| 4-13 | 1400 | 18.39          | 44300     | 4.48             |      |      |                |           |                  |
| 4-13 | 1500 |                | 50800     | 4.89             | 4-16 | 0600 | 1.92           | 600       | 10.49            |
| 4-13 | 1600 |                | 54500     | 5.34             | 4-16 | 1200 | 1.78           | 531       | 10.52            |
| 4-13 | 1700 |                | 55400     | 5.82             | 4-16 | 1800 | 1.63           | 487       | 10.55            |
| 4-13 | 1800 |                | 51700     | 6.23             | 4-16 | 2400 | 1.56           | 441       | 10.57            |
| 4-13 | 1900 |                | 47600     | 6.70             |      |      |                |           |                  |
| 4-13 | 2000 |                | 44200     | 7.10             | 4-17 | 0100 | 1.54           | 434       | 10.58            |
| 4-13 | 2100 |                | 38300     | 7.45             | 4-17 | 1200 | 1.39           | 382       | 10.62            |
| 4-13 | 2200 | 17.10          | 34800     | 7.77             | 4-17 | 2400 | 1.28           | 343       | 10.65            |

Note:-- Discharge estimated from reconstructed graph  
Apr. 13 at 1200 to 2100.

## Flood hydrograph data--Continued

## HOMOCHITTO RIVER BASIN

07291260 Beaver Run near McCall Creek, Miss.

LOCATION.--Lat 31°30'30", long 90°43'10", in NW¼NW¼NE¼ sec.8, T.6 N., R.5 E., Washington meridian, Franklin County, at a 14x14 ft (4.27x4.27 m) box culvert on U.S. Highway 84, 1.4 miles (2.25 m) west of McCall Creek.

DRAINAGE AREA.--2.61 mi<sup>2</sup> (6.76 m<sup>2</sup>).

PERIOD OF RECORD.--April 1955 to current year (annual peaks only prior to 1965; all peaks above 100 ft<sup>3</sup>/s or 2.83 m<sup>3</sup>/s thereafter).

GAGE.--Water-stage recorder. Prior to April 28, 1975, crest-stage gage at same site and datum.

GAGE HEIGHT, IN FEET; DISCHARGE, IN CUBIC FEET PER SECOND; AND ACCUMULATED RUNOFF, IN INCHES,  
AT INDICATED TIME, 1974

| DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF | DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF |
|------|------|----------------|-----------|------------------|------|------|----------------|-----------|------------------|
| 4-12 | 1645 | 3.11           | 36        | .00              |      |      |                |           |                  |
| 4-12 | 1700 | 3.75           | 98        | .03              |      |      |                |           |                  |
| 4-12 | 1715 | 3.96           | 127       | .05              |      |      |                |           |                  |
| 4-12 | 1730 | 4.33           | 179       | .07              | 4-13 | 0900 | 6.89           | 554       | 3.52             |
| 4-12 | 1745 | 4.79           | 244       | .10              | 4-13 | 0915 | 7.47           | 642       | 3.61             |
| 4-12 | 1800 | 5.22           | 304       | .25              | 4-13 | 0930 | 8.09           | 741       | 3.71             |
| 4-12 | 1815 | 5.68           | 372       | .30              | 4-13 | 0945 | 8.45           | 802       | 3.83             |
| 4-12 | 1830 | 6.13           | 440       | .36              | 4-13 | 1000 | 8.74           | 851       | 4.28             |
| 4-12 | 1845 | 6.61           | 512       | .43              | 4-13 | 1015 | 9.23           | 934       | 4.41             |
| 4-12 | 1900 | 7.06           | 579       | .73              | 4-13 | 1030 | 9.83           | 1040      | 4.56             |
| 4-12 | 1915 | 7.64           | 669       | .82              | 4-13 | 1045 | 10.43          | 1150      | 4.72             |
| 4-12 | 1930 | 8.48           | 807       | .93              | 4-13 | 1100 | 10.78          | 1210      | 5.36             |
| 4-12 | 1940 | 8.54           | 817       | 1.01             | 4-13 | 1115 | 10.81          | 1220      | 5.54             |
| 4-12 | 2000 | 8.25           | 768       | 1.43             | 4-13 | 1130 | 10.67          | 1190      | 5.72             |
| 4-12 | 2015 | 7.88           | 703       | 1.59             | 4-13 | 1145 | 10.19          | 1100      | 5.89             |
| 4-12 | 2030 | 7.39           | 629       | 1.69             | 4-13 | 1200 | 9.55           | 989       | 6.46             |
| 4-12 | 2045 | 6.89           | 554       | 1.78             | 4-13 | 1215 | 8.85           | 870       | 6.60             |
| 4-12 | 2100 | 6.37           | 476       | 2.06             | 4-13 | 1230 | 8.19           | 757       | 6.72             |
| 4-12 | 2115 | 5.91           | 407       | 2.12             | 4-13 | 1245 | 7.70           | 679       | 6.83             |
| 4-12 | 2130 | 5.44           | 336       | 2.18             | 4-13 | 1300 | 7.23           | 605       | 7.18             |
| 4-12 | 2145 | 5.10           | 287       | 2.23             | 4-13 | 1400 | 7.16           | 594       | 7.53             |
| 4-12 | 2200 | 4.84           | 251       | 2.37             | 4-13 | 1415 | 7.03           | 575       | 7.62             |
| 4-12 | 2300 | 4.29           | 174       | 2.50             | 4-13 | 1430 | 7.11           | 587       | 7.70             |
| 4-12 | 2400 | 3.85           | 112       | 2.58             | 4-13 | 1500 | 7.47           | 642       | 8.13             |
|      |      |                |           |                  | 4-13 | 1515 | 7.47           | 642       | 8.22             |
| 4-13 | 0100 | 3.56           | 75        | 2.64             | 4-13 | 1530 | 7.45           | 639       | 8.32             |
| 4-13 | 0200 | 3.31           | 52        | 2.68             | 4-13 | 1545 | 7.51           | 649       | 8.42             |
| 4-13 | 0300 | 3.20           | 43        | 2.70             | 4-13 | 1600 | 7.47           | 642       | 8.77             |
| 4-13 | 0600 | 3.04           | 31        | 2.77             | 4-13 | 1700 | 6.71           | 527       | 9.11             |
| 4-13 | 0630 | 3.31           | 52        | 2.78             | 4-13 | 1730 | 6.02           | 423       | 9.25             |
| 4-13 | 0700 | 3.80           | 105       | 2.84             | 4-13 | 1800 | 5.20           | 301       | 9.51             |
| 4-13 | 0715 | 4.12           | 150       | 2.86             | 4-13 | 1830 | 4.66           | 225       | 9.58             |
| 4-13 | 0730 | 4.48           | 200       | 2.88             | 4-13 | 1900 | 4.28           | 172       | 9.72             |
| 4-13 | 0745 | 4.81           | 246       | 2.92             | 4-13 | 1930 | 3.98           | 130       | 9.77             |
| 4-13 | 0800 | 5.24           | 307       | 3.07             | 4-13 | 2000 | 3.71           | 92        | 9.84             |
| 4-13 | 0815 | 5.69           | 374       | 3.12             | 4-13 | 2100 | 3.50           | 69        | 9.89             |
| 4-13 | 0830 | 5.94           | 411       | 3.17             | 4-13 | 2200 | 3.33           | 54        | 9.93             |
| 4-13 | 0845 | 6.42           | 483       | 3.24             | 4-13 | 2400 | 3.16           | 40        | 9.98             |

## Flood hydrograph data--Continued

## HOMOCHITTO RIVER BASIN

07292500 Homochitto River at Rosetta, Miss.

LOCATION.--Lat 31°19'20", long 91°06'20", in sec.12, T.4 N., R.1 E., Washington meridian, Wilkinson County, on downstream side of bridge on State Highway 33 at Rosetta, 800 ft (240 m) downstream from Illinois Central Railroad bridge, 1 mile (1.6 km) downstream from Foster Creek, and 5 miles (8 km) upstream from Dry Creek.

DRAINAGE AREA.--750 mi<sup>2</sup> (1,940 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--June to November 1906 (gage heights and discharge measurements only), October 1951 to current year in reports of Geological Survey. February 1949 to September 1951 (gage heights and discharge measurements only) in reports of Corps of Engineers, Vicksburg district.

GAGE.--Water-stage recorder and nonrecording gage read twice daily. Datum of gage is 94.39 ft (28.770 m) above mean sea level. June 16 to Nov. 12, 1906, nonrecording gage at railroad bridge 800 ft (240 m) upstream at different datum.

REMARKS.--See page 110 for complete water year data.

GAGE HEIGHT, IN FEET; DISCHARGE, IN CUBIC FEET PER SECOND; AND ACCUMULATED RUNOFF, IN INCHES,  
AT INDICATED TIME, 1974

| DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF | DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF |
|------|------|----------------|-----------|------------------|------|------|----------------|-----------|------------------|
| 4-12 | 0200 | 10.00          | 420       | .00              | 4-14 | 1600 | 20.92          | 40200     | 9.25             |
| 4-12 | 1200 | 10.20          | 505       | .00              | 4-14 | 1800 | 21.00          | 40800     | 9.42             |
| 4-12 | 1600 | 10.60          | 725       | .01              | 4-14 | 2400 | 20.35          | 35600     | 9.89             |
| 4-12 | 1700 | 11.50          | 1390      | .01              |      |      |                |           |                  |
| 4-12 | 1800 | 13.70          | 4720      | .02              | 4-15 | 0400 | 19.50          | 29300     | 10.16            |
| 4-12 | 1900 | 15.80          | 10600     | .03              | 4-15 | 0800 | 16.90          | 14600     | 10.34            |
| 4-12 | 2000 | 13.00          | 20000     | .07              | 4-15 | 1000 | 15.20          | 10100     | 10.39            |
| 4-12 | 2100 | 20.00          | 32800     | .12              | 4-15 | 1200 | 14.05          | 7970      | 10.43            |
| 4-12 | 2200 | 23.30          | 62600     | .22              | 4-15 | 1600 | 13.45          | 6990      | 10.49            |
| 4-12 | 2300 | 25.90          | 99400     | .39              | 4-15 | 2000 | 13.58          | 7190      | 10.55            |
| 4-12 | 2400 | 26.30          | 106000    | .60              | 4-15 | 2400 | 13.55          | 7140      | 10.61            |
| 4-13 | 0200 | 26.25          | 105000    | 1.03             | 4-16 | 0600 | 13.10          | 6520      | 10.69            |
| 4-13 | 0400 | 25.75          | 97000     | 1.45             | 4-16 | 1200 | 11.65          | 4780      | 10.76            |
| 4-13 | 0600 | 25.00          | 86000     | 1.83             | 4-16 | 1800 | 10.88          | 3880      | 10.82            |
| 4-13 | 0800 | 24.85          | 83900     | 2.18             | 4-16 | 2400 | 10.72          | 3720      | 10.86            |
| 4-13 | 1000 | 25.50          | 93000     | 2.55             |      |      |                |           |                  |
| 4-13 | 1200 | 26.60          | 111000    | 2.97             | 4-17 | 0600 | 10.62          | 3620      | 10.91            |
| 4-13 | 1400 | 27.70          | 132000    | 3.47             | 4-17 | 1200 | 10.50          | 3500      | 10.95            |
| 4-13 | 1600 | 28.23          | 144000    | 4.04             | 4-17 | 1300 | 10.40          | 3400      | 11.00            |
| 4-13 | 1700 | 28.45          | 148000    | 4.34             | 4-17 | 2400 | 10.30          | 3300      | 11.04            |
| 4-13 | 2000 | 28.60          | 150000    | 5.27             |      |      |                |           |                  |
| 4-13 | 2200 | 28.40          | 147000    | 5.88             | 4-18 | 0600 | 10.20          | 3200      | 11.08            |
| 4-13 | 2400 | 28.08          | 140000    | 6.47             | 4-18 | 1200 | 10.00          | 3000      | 11.12            |
|      |      |                |           |                  | 4-18 | 2400 | 9.30           | 2300      | 11.18            |
| 4-14 | 0400 | 26.90          | 116000    | 7.53             |      |      |                |           |                  |
| 4-14 | 0800 | 24.80          | 83200     | 8.35             | 4-19 | 0600 | 9.10           | 2120      | 11.21            |
| 4-14 | 1000 | 23.40          | 63300     | 8.66             | 4-19 | 1200 | 8.95           | 1990      | 11.23            |
| 4-14 | 1200 | 21.80          | 47500     | 8.89             | 4-19 | 2400 | 8.75           | 1830      | 11.28            |



## Flood hydrograph data--Continued

## HOMOCHITTO RIVER BASIN

07294400 Observers Draw near Doloroso, Miss.

LOCATION.--Lat 31°19'10", long 91°21'20", between secs. 10 and 22, T.4 N., R.2 W., Washington meridian, Wilkinson County, at a 6x6-ft (1.83x1.83 m) box culvert on U.S. Highway 61, 1.3 miles (2.1 km) north of Doloroso.

DRAINAGE AREA.--0.22 mi<sup>2</sup> (0.57 km<sup>2</sup>).

PERIOD OF RECORD.--May 1954 to current year (annual peaks only prior to May 1965; all peaks above 100 ft<sup>3</sup>/s or 2.83 m<sup>3</sup>/s thereafter).

GAGE.--Water-stage recorder. Prior to May 18, 1965, crest-stage gage. May 18, 1965, to Sept. 22, 1971, circular-chart recorders, all at same site and datum.

GAGE HEIGHT, IN FEET; DISCHARGE, IN CUBIC FEET PER SECOND; AND ACCUMULATED RUNOFF, IN INCHES,  
AT INDICATED TIME, 1974

| DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF | DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF |
|------|------|----------------|-----------|------------------|------|------|----------------|-----------|------------------|
| 4-12 | 1415 | 2.25           | 3.3       | .00              | 4-13 | 0400 | 2.30           | 4         | 4.35             |
| 4-12 | 1430 | 3.22           | 24        | .02              | 4-13 | 0600 | 2.27           | 3.6       | 4.40             |
| 4-12 | 1445 | 3.73           | 39        | .07              | 4-13 | 0700 | 2.51           | 7.2       | 4.44             |
| 4-12 | 1500 | 4.78           | 81        | .46              | 4-13 | 0715 | 2.85           | 14        | 4.46             |
| 4-12 | 1515 | 4.62           | 75        | .60              | 4-13 | 0730 | 3.64           | 36        | 4.50             |
| 4-12 | 1530 | 4.38           | 65        | .72              | 4-13 | 0745 | 4.29           | 62        | 4.59             |
| 4-12 | 1545 | 4.44           | 68        | .84              | 4-13 | 0800 | 4.72           | 79        | 5.05             |
| 4-12 | 1600 | 4.36           | 64        | 1.27             | 4-13 | 0815 | 4.45           | 68        | 5.18             |
| 4-12 | 1615 | 4.04           | 52        | 1.37             | 4-13 | 0830 | 4.09           | 54        | 5.28             |
| 4-12 | 1630 | 3.88           | 45        | 1.45             | 4-13 | 0900 | 3.95           | 48        | 5.70             |
| 4-12 | 1700 | 3.69           | 38        | 1.79             | 4-13 | 1000 | 3.10           | 20        | 5.94             |
| 4-12 | 1730 | 4.24           | 60        | 1.97             | 4-13 | 1200 | 2.59           | 8.8       | 6.14             |
| 4-12 | 1745 | 4.40           | 66        | 2.08             | 4-13 | 1400 | 2.42           | 5.8       | 6.25             |
| 4-12 | 1800 | 5.06           | 95        | 2.60             | 4-13 | 1530 | 2.36           | 4.9       | 6.30             |
| 4-12 | 1815 | 4.55           | 72        | 2.74             | 4-13 | 1545 | 2.49           | 6.9       | 6.31             |
| 4-12 | 1830 | 4.02           | 51        | 2.85             | 4-13 | 1600 | 2.70           | 11        | 6.37             |
| 4-12 | 1900 | 3.81           | 42        | 3.24             | 4-13 | 1615 | 3.04           | 18        | 6.40             |
| 4-12 | 2000 | 4.06           | 52        | 3.57             | 4-13 | 1630 | 3.47           | 31        | 6.44             |
| 4-12 | 2030 | 3.60           | 35        | 3.72             | 4-13 | 1645 | 3.67           | 37        | 6.50             |
| 4-12 | 2100 | 3.17           | 22        | 3.95             | 4-13 | 1700 | 3.46           | 31        | 6.72             |
| 4-12 | 2200 | 2.77           | 12        | 4.07             | 4-13 | 1800 | 2.93           | 16        | 6.89             |
| 4-12 | 2400 | 2.49           | 6.9       | 4.21             | 4-13 | 1900 | 2.79           | 13        | 6.99             |
|      |      |                |           |                  | 4-13 | 2000 | 2.58           | 8.6       | 7.06             |
| 4-13 | 0200 | 2.35           | 4.8       | 4.29             | 4-13 | 2400 | 2.32           | 4.3       | 7.25             |

## Flood hydrograph data--Continued

## BUFFALO RIVER BASIN

07295000 Buffalo River near Woodville, Miss.

LOCATION.--Lat 31°13'35", long 91°17'45", in SW¼ sec.21, T.3 N., R.2 W., Washington meridian, Wilkinson County, near center of span on downstream side of bridge on U.S. Highway 61, 1.5 miles (2.4 km) downstream from Fords Creek, 2.8 miles (4.5 km) west of Wilkinson, and 8.5 miles (13.7 km) north of Woodville.

DRAINAGE AREA.--182 mi<sup>2</sup> (471 km<sup>2</sup>).

PERIOD OF RECORD.--March 1942 to current year. Prior to October 1950, published as Buffalo Bayou near Woodville.

GAGE.--Water-stage recorder. Datum of gage is 94.52 ft (28.810 m) above mean sea level. Prior to June 1, 1942, nonrecording gage at same site. Prior to Oct. 1, 1964, at datum 3.00 ft (0.914 m) higher.

REMARKS.--See page 111 for complete water year data.

GAGE HEIGHT, IN FEET; DISCHARGE, IN CURIC FEET PER SECOND; AND ACCUMULATED RUNOFF, IN INCHES, AT INDICATED TIME, 1974

| DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF | DATE | TIME | GAGE<br>HEIGHT | DISCHARGE | ACCUM-<br>RUNOFF |
|------|------|----------------|-----------|------------------|------|------|----------------|-----------|------------------|
| 4-12 | 1300 | 5.30           | 295       | .00              | 4-14 | 1200 | 10.20          | 5300      | 6.13             |
| 4-12 | 1700 | 5.35           | 312       | .01              | 4-14 | 1400 | 11.76          | 9580      | 6.26             |
| 4-12 | 1800 | 6.12           | 665       | .01              | 4-14 | 1800 | 10.88          | 6960      | 6.54             |
| 4-12 | 1900 | 9.06           | 3410      | .03              | 4-14 | 2100 | 9.66           | 4320      | 6.68             |
| 4-12 | 2000 | 13.06          | 13500     | .10              | 4-14 | 2400 | 8.88           | 3160      | 6.78             |
| 4-12 | 2100 | 15.94          | 24700     | .26              | 4-15 | 0400 | 8.01           | 2140      | 6.87             |
| 4-12 | 2200 | 17.85          | 33200     | .51              | 4-15 | 1200 | 7.18           | 1360      | 6.99             |
| 4-12 | 2300 | 19.02          | 39000     | .82              | 4-15 | 2400 | 6.62           | 953       | 7.11             |
| 4-13 | 0100 | 19.56          | 41700     | 1.50             | 4-16 | 1200 |                | 940       | 7.20             |
| 4-13 | 0200 | 19.51          | 41400     | 1.86             | 4-16 | 2400 |                | 815       | 7.29             |
| 4-13 | 0400 | 18.90          | 38400     | 2.54             | 4-17 | 1200 |                | 705       | 7.37             |
| 4-13 | 0500 | 17.59          | 31800     | 2.83             | 4-17 | 2400 |                | 555       | 7.44             |
| 4-13 | 0600 | 15.60          | 23300     | 3.07             | 4-18 | 1200 |                | 415       | 7.49             |
| 4-13 | 0800 | 12.13          | 10700     | 3.36             | 4-18 | 2400 |                | 370       | 7.53             |
| 4-13 | 1200 | 13.63          | 15400     | 3.80             | 4-19 | 1200 |                | 330       | 7.56             |
| 4-13 | 1500 | 14.85          | 20300     | 4.26             | 4-19 | 2400 |                | 264       | 7.59             |
| 4-13 | 1800 | 15.71          | 23700     | 4.82             | 4-20 | 1200 |                | 171       | 7.61             |
| 4-13 | 2100 | 14.10          | 17300     | 5.34             |      |      |                |           |                  |
| 4-13 | 2400 | 11.06          | 7480      | 5.66             |      |      |                |           |                  |
| 4-14 | 0200 | 10.33          | 5590      | 5.77             |      |      |                |           |                  |
| 4-14 | 0400 | 9.82           | 4580      | 5.86             |      |      |                |           |                  |
| 4-14 | 0900 | 8.89           | 3180      | 6.02             |      |      |                |           |                  |

Note.-- Discharge estimated from reconstructed graph  
Apr. 16 at 1200 to Apr. 20.

## Summary of flood stages and discharges

| Number                 | Stream and place of determination                                                    | Drainage area (mi <sup>2</sup> ) | River mile | Datum of gage (ft) | Maximum previously known    |                      |                   |                                | Maximum April 1974 |                                                    |                                |
|------------------------|--------------------------------------------------------------------------------------|----------------------------------|------------|--------------------|-----------------------------|----------------------|-------------------|--------------------------------|--------------------|----------------------------------------------------|--------------------------------|
|                        |                                                                                      |                                  |            |                    | Period                      | Year                 | Gage height (ft)  | Discharge (ft <sup>3</sup> /s) | Date               | Gage height (ft)                                   | Discharge (ft <sup>3</sup> /s) |
| Pascagoula River basin |                                                                                      |                                  |            |                    |                             |                      |                   |                                |                    |                                                    |                                |
| 02471100               | Leaf River at State Highway 18, 6 miles east of Raleigh                              | 143                              | 143.4      | msl                | 1957-73                     | 1961                 | 301.93            | 14,500                         | 13                 | 303.11<br>1u302.8<br>ru304.5<br>1d302.2<br>rd301.1 | 17,000                         |
| 02471250               | Leaf River at State Highway 28, near Taylorsville                                    | 466                              | 125.8      | msl                | 1968-73                     | 1969                 | 247.75            | 11,200                         | 13                 | 257.44<br>u258.2<br>d255.9                         | 40,000                         |
| 02471500               | Oakohay Creek at State Highway 28, at Mize                                           | 171                              |            | 274.18             | 1944-49<br>1961,<br>1967-73 | 1961                 | 15.13             | 13,000                         | 13                 | 17.26                                              | 28,900                         |
| 02471900               | Oakohay Creek at State Highway 37, near Hot Coffee                                   |                                  |            |                    |                             |                      |                   |                                | 13                 | u242.5<br>d241.2                                   |                                |
| 02472000               | Leaf River at U.S. Highway 84, near Collins                                          | 752                              | 114.5      | 197.48             | 1938-73                     | 1961<br>1856<br>1900 | 31.85<br>33<br>32 | 48,500                         | 13                 | 32.43<br>u34.7<br>d32.4                            | 52,000                         |
|                        | Etehomia Creek at State Highway 15, near Bay Springs                                 |                                  | 23.4       | msl                |                             | 1964                 | 351.7             |                                | 13                 | 351.3                                              |                                |
|                        | Etehomia Creek at county road, sec.20, T.1 N., R.10 E., 3.7 miles north of Stringer  |                                  | 20.6       | msl                |                             | 1964                 | u328.8<br>d328.1  |                                | 13                 | 328.4                                              |                                |
| 02472030               | Etehomia Creek at State Highway 15, 1.4 miles north of Stringer                      |                                  | 18.0       | msl                |                             | 1964                 | u310.4<br>d307.7  |                                | 13                 | u310.2<br>d308.2                                   |                                |
|                        | Etehomia Creek at county road, sec.2, T.10 N., R.13 W., 1.1 miles west of Stringer   |                                  | 16.7       | assumed            |                             | 1964                 | u49.6<br>d47.0    |                                | 13                 | u49.2<br>d47.3                                     |                                |
|                        | Etehomia Creek at county road, sec.34, T.10 N., R.13 W., 2.6 miles north of Soso     |                                  | 11.7       | assumed            |                             |                      |                   |                                | 13                 | u100.5<br>d98.4                                    |                                |
|                        | Etehomia Creek at State Highway 28, 2.4 miles northwest of Soso                      |                                  | 9.8        | msl                |                             | 1964                 | u261.4<br>d260.8  |                                | 13                 | u262.4<br>d261.3                                   |                                |
|                        | Etehomia Creek at I.C. Railroad, sec.9, T.9 N., R.13 W., 2.4 miles northwest of Soso |                                  | 7.7        | msl                |                             | 1964                 | u259.3<br>d258.5  |                                | 13                 | 258.5                                              |                                |
|                        | Etehomia Creek at county road, sec.28, T.9 N., R.13 W., 3.6 miles south of Soso      |                                  | 5.8        | assumed            |                             | 1964                 | d51.7             |                                | 13                 | 51.8                                               |                                |
| 02472100               | Big Creek at State Highway 84, 14.4 miles west of Laurel                             |                                  | 3.4        | msl                |                             | 1964                 | 223.1             |                                | 13                 | u224.9<br>d224.1                                   |                                |

## Summary of flood stages and discharges--Continued

| Number                            | Stream and place of determination                                                       | Drainage<br>area<br>(mi <sup>2</sup> ) | River<br>mile | Datum<br>of<br>gage<br>(ft) | Maximum previously known |      |                        | Maximum April 1974                |      |                                          |                                   |
|-----------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------|---------------|-----------------------------|--------------------------|------|------------------------|-----------------------------------|------|------------------------------------------|-----------------------------------|
|                                   |                                                                                         |                                        |               |                             | Period                   | Year | Gage<br>height<br>(ft) | Discharge<br>(ft <sup>3</sup> /s) | Date | Gage<br>height<br>(ft)                   | Discharge<br>(ft <sup>3</sup> /s) |
| Pascagoula River basin--Continued |                                                                                         |                                        |               |                             |                          |      |                        |                                   |      |                                          |                                   |
| 02472160                          | Big Creek tributary at U.S. Highway 84, 11.4 miles west of Laurel                       | 0.17                                   |               |                             | 1966-73                  | 1973 | 6.34                   | 202                               | 13   | 5.62                                     | 155                               |
| 02472170                          | Leaf River at State Highway 588, near Ellisville                                        |                                        | 101.7         | msl                         |                          | 1961 | d208.4                 |                                   |      | u210.4<br>d210.0                         |                                   |
| 02472360                          | Leaf River at State Highway 590, southwest of Ellisville                                |                                        | 94.9          | msl                         |                          |      |                        |                                   |      | 201.2                                    |                                   |
|                                   | Leaf River at State Highway 598, 2.5 miles northwest of Moselle                         |                                        | 91.6          | msl                         |                          | 1961 | 195.2                  |                                   |      | 196.2                                    |                                   |
|                                   | Leaf River at I-59, 1 mile west of Moselle                                              |                                        | 88.5          | msl                         | a1880                    | 1900 | 189                    |                                   |      | u189.6<br>d189.1                         |                                   |
| 02472370                          | Leaf River in SE $\frac{1}{4}$ sec.9, T.6 N., R.13 W., 1.5 miles west of Moselle        |                                        | 87.8          | msl                         |                          | 1961 | u186.1<br>d185.1       |                                   |      | d187.1                                   |                                   |
| 02472373                          | Leaf River at county highway, 1 mile west of Estabutchie                                |                                        | 82.1          | msl                         |                          | 1961 | 166.7                  |                                   |      | 168.5                                    |                                   |
| 02472380                          | Bowie Creek at U.S. Highway 84 near Prentiss, 11.5 miles west of Collins                | 57                                     | 47.6          | msl                         |                          | 1961 | 346.91                 |                                   |      | lu353.3<br>ru351.2<br>ld352.7<br>rd346.9 |                                   |
| 02472381                          | Bowie Creek at State Highway 35 near Prentiss                                           |                                        | 46.3          | msl                         |                          | 1961 | 334.4                  |                                   |      | u339.2<br>d335.7                         |                                   |
|                                   | Bowie Creek at county road, in sec.19, T.7 N., R.16 W., 8 miles west of Seminary        |                                        | 40.3          |                             |                          | 1961 | 274.6                  |                                   |      | 278.2                                    |                                   |
|                                   | Bowie Creek at county road, in sec.34, T.7 N., R.16 W., 5.7 miles southwest of Seminary |                                        | 35.7          |                             |                          |      |                        |                                   |      | 254.7                                    |                                   |
| 02472398                          | Bowie Creek at county road, in sec.12, T.6 N., R.16 W., 5.5 miles southwest of Seminary |                                        | 30.5          |                             |                          | 1961 | 236.6                  |                                   |      | 238.2                                    |                                   |
| 02472420                          | Bowie Creek at State Highway 589 near Sanford                                           | 262                                    | 26.6          | msl                         | 1961,<br>1968-73         | 1961 | d222.0                 |                                   |      | u222.7<br>d221.7                         |                                   |
| 02472500                          | Bowie Creek at U.S. Highway 49 near Hattiesburg                                         | 304                                    | 16.1          | 160.04                      | 1939-73                  | 1961 | b26.54<br>c26.92       | 34,800                            | 14   | 28.18<br>u28.9<br>d27.8                  | 45,500                            |
| 02472546                          | Okatoma Creek at county highway east of Magee                                           | 24                                     | 37.7          | msl                         |                          | 1972 | u367.4<br>d366.7       |                                   | 12   | u371.9<br>d369.6                         | 12,100                            |
| 02472550                          | Okatoma Creek at State Highway 28 near Magee                                            | 38                                     | 36.2          | msl                         |                          | 1961 | u364.9                 | e9,000                            |      | u367.2<br>d364.8                         | 16,100                            |

## Summary of flood stages and discharges--Continued

| Number                            | Stream and place of determination                                        | Drainage<br>area<br>(mi <sup>2</sup> ) | River<br>mile | Datum<br>of<br>gage<br>(ft) | Period        | Maximum previously known |                               |                                   | Maximum April 1974 |                                          |                                   |
|-----------------------------------|--------------------------------------------------------------------------|----------------------------------------|---------------|-----------------------------|---------------|--------------------------|-------------------------------|-----------------------------------|--------------------|------------------------------------------|-----------------------------------|
|                                   |                                                                          |                                        |               |                             |               | Year                     | Gage<br>height<br>(ft)        | Discharge<br>(ft <sup>3</sup> /s) | Date               | Gage<br>height<br>(ft)                   | Discharge<br>(ft <sup>3</sup> /s) |
| Pascagoula River basin--Continued |                                                                          |                                        |               |                             |               |                          |                               |                                   |                    |                                          |                                   |
| 02472600                          | Okatoma Creek at State Highway 35, at Mt. Olive                          |                                        | 28.3          | msl                         |               | 1961                     | d419.6                        |                                   |                    | u325.5<br>d323.8                         |                                   |
| 02472700                          | Okatoma Creek tributary at State Highway 532, 0.3 mile east of Mt. Olive | 0.33                                   |               |                             | 1965-73       | 1965                     | 4.69                          | 163                               |                    | 6.21                                     | 318                               |
| 02472800                          | Okatoma Creek at U.S. Highway 84 at Collins                              |                                        | 18.6          | msl                         |               | 1961                     | u277.1<br>d276.0              |                                   |                    | u280.8<br>d280.1                         |                                   |
| 02472820                          | Okatoma Creek at State Highway 590 at Seminary                           |                                        | 11.7          | msl                         |               |                          |                               |                                   |                    | d247.5                                   |                                   |
| 02472860                          | Okatoma Creek at county highway at Lux                                   |                                        |               | msl                         |               |                          |                               |                                   |                    | u188.9<br>d188.5                         |                                   |
| 02472940                          | Bowie Creek at I-59 near Hattiesburg                                     |                                        | 5.8           | msl                         |               | 1961                     | u164.3<br>d163.2              |                                   |                    | u165.7<br>d164.5                         |                                   |
| 02472945                          | Bowie Creek at Glendendale Road at Hattiesburg                           |                                        | 2.4           | msl                         |               | 1961                     | u155.4<br>d153.5              |                                   |                    | u154.9<br>d153.8                         |                                   |
| 02473000                          | Leaf River at U.S. Highway 11 at Hattiesburg                             | 1,760                                  | 71.8          | 118.23                      | 1939-73       | 1961                     | 31.53                         | 72,200                            | 15                 | 34.03                                    | 121,000                           |
| 02473320                          | Leaf River at county highway 1 mile northeast of McCollum                |                                        | 58.8          | msl                         |               | 1961                     | 126                           |                                   |                    | 130.9                                    |                                   |
| 02473360                          | Leaf River at county highway 1.5 miles north of Mahned                   |                                        | 48.6          | msl                         |               | 1961                     | 113.6                         |                                   |                    | 113.2                                    |                                   |
|                                   | Tallahala Creek at State Highway 18, 11.2 miles northeast of Bay Springs |                                        |               | msl                         |               | 1964                     | lu341.7<br>ld339.9<br>rd339.4 | 6                                 | 13                 | lu341.3<br>ld339.3<br>ru341.1<br>rd338.9 |                                   |
| 02473460                          | Tallahala Creek at State Highway 528, 0.8 miles east of Waldrup          | 1100                                   |               | msl                         |               | 1964                     | lu315.6<br>ru315.0<br>d313.4  |                                   | 13                 | 313.2                                    | 17,900                            |
| 02473480                          | Tallahattah Creek at county road, 8.7 miles south of Waldrup             | 30.7                                   |               | 265.25                      |               | 1961                     | u19.6<br>d17.1                |                                   | 13                 | 18.14                                    |                                   |
| 02473490                          | Tallahala Creek at county road, 2.4 miles west of Sandersville           |                                        |               | msl                         |               | 1964                     | ru255.9<br>d254.3             |                                   | 14                 | d254.41                                  |                                   |
|                                   | Tallahala Creek at U.S. Highway 11, 2.2 miles northeast of Laurel        |                                        |               | msl                         |               | 1964                     | lu236.5<br>ru235.9<br>d235.2  |                                   | 14                 | rd236.2                                  |                                   |
| 02473496                          | Tallahala Creek at Interstate Highway 59, at Laurel                      |                                        |               | msl                         | 1961,<br>1964 | 1964                     | lu234.9<br>ru232.8<br>d231.4  |                                   | 14                 | lu234.5<br>ru232.5<br>d231.4             |                                   |



## Summary of flood stages and discharges--Continued

| Number                            | Stream and place of determination                                      | Drainage<br>area<br>(mi <sup>2</sup> ) | River<br>mile | Datum<br>of<br>gage<br>(ft) | Maximum previously known |              |                                          |                                   | Maximum April 1974 |                                          |                                   |
|-----------------------------------|------------------------------------------------------------------------|----------------------------------------|---------------|-----------------------------|--------------------------|--------------|------------------------------------------|-----------------------------------|--------------------|------------------------------------------|-----------------------------------|
|                                   |                                                                        |                                        |               |                             | Period                   | Year         | Gage<br>height<br>(ft)                   | Discharge<br>(ft <sup>3</sup> /s) | Date               | Gage<br>height<br>(ft)                   | Discharge<br>(ft <sup>3</sup> /s) |
| Pascagoula River basin--Continued |                                                                        |                                        |               |                             |                          |              |                                          |                                   |                    |                                          |                                   |
|                                   | Tallahala Creek at U.S. Highway 84, 1.6 miles east of Laurel           |                                        |               | msl                         | 1961,<br>1964            | 1964         | 1u228.2<br>ru229.9<br>ld226.6<br>rd227.8 |                                   | 14                 | u229.2<br>ld228.6<br>rd228.4             |                                   |
| 02473500                          | Tallahala Creek at State Highway 15 at Laurel                          | 233                                    |               | 201.37                      | 1939-73                  | 1964         | 23.13                                    | 21,100                            | 14                 | 23.28                                    | 23,300                            |
|                                   | Tallahala Creek at county road, 1.9 miles southeast of Laurel          |                                        |               | msl                         |                          | 1964         | ru222.4<br>ld220.3                       |                                   | 14                 | d220.8                                   |                                   |
|                                   | Tallahala Creek at Walters Creek at Southern Railway                   |                                        |               | msl                         |                          |              |                                          |                                   | 14                 | 206.5                                    |                                   |
|                                   | Tallahala Creek at Walters Creek tributary at Southern Railway         |                                        |               |                             |                          |              |                                          |                                   | 14                 | 202.6                                    |                                   |
| 02473790                          | Tallahoma Creek at State Highway 18                                    |                                        | 30.6          | msl                         |                          | 1964         | u330.2<br>d329.7                         |                                   |                    | u330.3<br>d329.8                         |                                   |
| 02473804                          | Tallahoma Creek at State Highway 528 near Lake Como                    |                                        | 27.2          | msl                         |                          | 1964         | u312.8<br>d312.5                         |                                   |                    | u312.9<br>d312.6                         |                                   |
| 02473850                          | Tallahoma Creek tributary at State Highway 528 at Lake Como            | 3.21                                   |               |                             | 1964-73                  | 1964         | 12.27                                    | 3,120                             | 12                 | 9.34                                     | 1,780                             |
| 02474000                          | Tallahoma Creek at State Highway 15 near Moss                          | 149                                    | 7.7           | msl                         | 1940-48<br>1961,<br>1964 | 1964         | 249.03                                   | 12,700                            |                    | u250.3<br>rd249.7<br>ld248.2             |                                   |
| 02474110                          | Tallahoma Creek at U.S. Highway 84, 1.5 miles west of Laurel           |                                        | 3.7           | msl                         |                          | 1964         | 1u221.5<br>ld221.0                       |                                   |                    | 1u222.5<br>ru221.4<br>ld222.0<br>rd221.0 |                                   |
| 02474160                          | Tallahoma Creek at Interstate Highway 59 at Ellisville                 |                                        | 1.1           | msl                         |                          | 1964         | u203.8<br>d203.5                         |                                   |                    | u204.4<br>d203.9                         |                                   |
| 02474200                          | Tallahala Creek at county road, 1.0 mile northeast of Ellisville       |                                        |               | msl                         |                          | 1964         | u201.1<br>d200.6                         |                                   | 15                 | 201.3                                    |                                   |
| 02474300                          | Tallahala Creek at State Highway 29, 2.0 miles southeast of Ellisville |                                        |               | msl                         | 1961,<br>1964            | 1964         | 1u198.1<br>ru199.0<br>d197.5             |                                   | 15                 | 1u198.3<br>ru199.7<br>d196.8             |                                   |
| 02474330                          | Tallahala Creek at county road, 9.0 miles south of Ellisville          |                                        |               | msl                         |                          | 1964         | 174.6                                    |                                   | 15                 | 175.1                                    |                                   |
| 02474480                          | Tallahala Creek at State Highway 42, at Runnelstown                    |                                        |               | msl                         | 1961,<br>1964            | 1961         | u146.6<br>d145.8                         |                                   | 16                 | 144.6                                    |                                   |
| 02474500                          | Tallahala Creek at county road, 3.0 miles south of Runnelstown         | 612                                    |               | 104.58                      |                          | 1900<br>1961 | g35.5<br>b29.84<br>c30.07                | 32,800                            | 16                 | 28.44                                    | 27,900                            |

## Summary of flood stages and discharges--Continued

| Number                            | Stream and place of determination                                                         | Drainage<br>area<br>(mi <sup>2</sup> ) | River<br>mile | Datum<br>of<br>gage<br>(ft) | Period             | Maximum previously known |                        |                                   | Maximum April 1974 |                              |                                   |
|-----------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------|---------------|-----------------------------|--------------------|--------------------------|------------------------|-----------------------------------|--------------------|------------------------------|-----------------------------------|
|                                   |                                                                                           |                                        |               |                             |                    | Year                     | Gage<br>height<br>(ft) | Discharge<br>(ft <sup>3</sup> /s) | Date               | Gage<br>height<br>(ft)       | Discharge<br>(ft <sup>3</sup> /s) |
| Pascagoula River basin--Continued |                                                                                           |                                        |               |                             |                    |                          |                        |                                   |                    |                              |                                   |
| 02474560                          | Leaf River at State Highway 29 near New Augusta                                           | 3,120                                  |               | msl                         |                    | 1961                     | d107.2                 |                                   |                    | 1u108.8<br>ru107.6<br>d107.2 |                                   |
| 02474680                          | Leaf River at county highway, 2 miles north of Wingate                                    |                                        | 38.2          | msl                         |                    | 1961                     | 101.0                  |                                   |                    | 101.5                        |                                   |
| 02474740                          | Leaf River at State Highway 15 at Beaumont                                                |                                        | 29.8          | msl                         |                    | 1961                     | u89.9<br>d89.4         |                                   |                    | u89.6<br>d88.6               |                                   |
|                                   | Leaf River at county highway, in sec.20, T.2 N., R.8 W., 1 mile northeast of McLain       |                                        | 17.9          | msl                         |                    | 1961                     | 77.7                   |                                   |                    | 79.1                         |                                   |
| 02475000                          | Leaf River at U.S. Highway 98 near McLain                                                 | 3,510                                  | 14.6          | 42.15                       | 1940-73            | 1961<br>1900             | 31.64<br>32            | 128,000                           | 18                 | 30.38<br>u31.4               | 110,000                           |
| 02479000                          | Pascagoula River at Merrill                                                               | 6,600                                  | 80.8          | 26.25                       | 1931-73            | 1961                     | 30.66                  | 178,000                           | 19                 | 28.37                        | 139,000                           |
| Pearl River basin                 |                                                                                           |                                        |               |                             |                    |                          |                        |                                   |                    |                              |                                   |
| 02486000                          | Pearl River at Woodrow Wilson Bridge at Jackson                                           | 3,100                                  | 287.6         | 234.90                      | 1902-13<br>1929-73 | 1902                     | 37.5                   | 85,000                            | 19                 | 34.36                        | 40,200                            |
| 02487230                          | Strong River at State Highway 481, 3.4 miles southeast of Morton                          | 16                                     | 61.2          | msl                         | 1959-73            | 1959                     | 409.75                 | 2,500                             | 13                 | 411.23<br>u412.4<br>d411.2   | 4,500                             |
|                                   | Strong River at Interstate 20, 5.3 miles southeast of Morton                              |                                        | 60.8          | msl                         |                    |                          |                        |                                   | 13                 | u409.0<br>1d407.8<br>rd407.3 |                                   |
| 02487240                          | Strong River at county road, in sec.18, T.5 N., R.7 E., 1.2 miles west of Pulaski         |                                        | 58.1          | msl                         |                    |                          |                        |                                   | 13                 | 394.1                        |                                   |
| 02487270                          | Strong River at county road, in sec.24, T.4 N., R.6 E., 4.0 miles southeast of Polkville  |                                        | 51.0          | msl                         |                    |                          |                        |                                   | 13                 | 362.5                        |                                   |
| 02487300                          | Strong River at State Highway 18, 2 miles southeast of Puckett                            | 260                                    | 39.7          | 294.97                      | 1950,<br>1958-73   | 1950                     | 27.06                  | 19,300                            | 13                 | 26.78<br>u27.4<br>d26.8      | 18,000                            |
|                                   | Strong River at county road, in sec.18, T.2 N., R.5 E., 5.2 miles northeast of Mendenhall |                                        | 34.3          | msl                         |                    |                          |                        |                                   | 13                 | d307.0                       |                                   |
|                                   | Strong River at State Highway 13, 4.0 miles northeast of Mendenhall                       |                                        | 32.9          | msl                         |                    |                          |                        |                                   | 14                 | 1u299.8<br>ru302.7<br>d300.7 |                                   |
|                                   | Strong River at new U.S. Highway 49, 1.0 mile northeast of D'Lo                           |                                        | 29.7          | msl                         |                    |                          |                        |                                   | 14                 | u295.0<br>d294.4             |                                   |

Summary of flood stages and discharges--Continued

| Number                       | Stream and place of determination                                                                      | Drainage<br>area<br>(mi <sup>2</sup> ) | River<br>mile | Datum<br>of<br>gage<br>(ft) | Maximum                     |              | previously known       |                                   | Maximum April 1974 |                                                    |                                   |
|------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------------------|---------------|-----------------------------|-----------------------------|--------------|------------------------|-----------------------------------|--------------------|----------------------------------------------------|-----------------------------------|
|                              |                                                                                                        |                                        |               |                             | Period                      | Year         | Gage<br>height<br>(ft) | Discharge<br>(ft <sup>3</sup> /s) | Date               | Gage<br>height<br>(ft)                             | Discharge<br>(ft <sup>3</sup> /s) |
| Pearl River basin--Continued |                                                                                                        |                                        |               |                             |                             |              |                        |                                   |                    |                                                    |                                   |
| 02487500                     | Strong River at old U.S. Highway 49 at D'Lo                                                            | 429                                    | 27.8          | 257.99                      | 1900,<br>1928-73            | 1900<br>1950 | f33<br>33.0            | 24,800                            | 14                 | d32.75                                             | 24,000                            |
|                              | Strong River at county road, in sec.26, T.1 N., R.3 E., 1.5 miles north of Pinola                      |                                        | 17.2          | msl                         |                             |              |                        |                                   | 14                 | u263.7<br>d263.3                                   |                                   |
|                              | Strong River at State Highway 28, 2 miles west of Pinola                                               |                                        | 14.1          | msl                         |                             |              |                        |                                   | 14                 | u255.1<br>d253.7                                   |                                   |
| 02487000                     | Pearl River at State Highway 28, 1.7 miles east of Georgetown                                          | 3,790                                  | 231.7         | msl                         |                             | 1962         | 226.9                  |                                   |                    | 224.4                                              |                                   |
| 02487900                     | Copiah Creek at State Highway 28, 6.2 miles east of Hazlehurst                                         | 48.6                                   |               | 283.42                      | 1948-73                     | 1965         | 24.49                  | 22,000                            | 13                 | 22.24                                              | 14,200                            |
| 02488000                     | Pearl River at county road, 2.0 miles southeast of Rockport                                            | 4,600                                  | 221.7         | msl                         | 1939-73                     | 1962         | 217.6                  |                                   | 14                 | u216.7                                             |                                   |
| 02488250                     | Pearl River backwater at truss bridge on county road, 1.0 mile north of Wanilla                        |                                        | 204.9         | msl                         |                             | 1962         | 203.9                  |                                   | 14                 | 205.8                                              |                                   |
|                              | Pearl River at I.C. Railroad trestle, 1.0 mile east of Wanilla                                         |                                        | 202.7         | msl                         |                             | 1962         | 201.2                  |                                   | 14                 | 203.7                                              |                                   |
| 02488460                     | Pearl River at county road bridge, in sec.35, T.8 N., R.21 W., at St. Regis Paper Company near Rosella |                                        | 199.5         | msl                         |                             |              |                        |                                   | 14                 | u200.5<br>d199.5                                   |                                   |
| 02488500                     | Pearl River at U.S. Highway 84, 1.0 mile east of Monticello                                            | 5,040                                  | 190.8         | 158.66                      | 1902<br>1939-73             | 1902<br>1962 | f33<br>29.64           | f100,000<br>63,500                | 14                 | 32.28<br>lu32.9<br>ru33.8<br>ld31.9<br>rd33.5      | 78,200                            |
| 02488720                     | Pearl River at county road, 0.4 mile south of Tilton                                                   |                                        | 166.3         | msl                         |                             | 1962         | 168.7                  |                                   | 14                 | 172.3                                              |                                   |
| 02488780                     | Pearl River at Morgantown                                                                              |                                        | 151.5         | msl                         |                             | 1962         | 157.3                  |                                   | 15                 | 158.8                                              |                                   |
|                              | Pearl River at State Highway 13, 35 bypass near Columbia                                               |                                        |               | msl                         |                             | 1962         | 146.0                  |                                   | 15                 | u149.4<br>d148.4                                   |                                   |
|                              | Pearl River at Fernwood, Columbia & Gulf Railroad at Columbia                                          |                                        | 138.7         | msl                         |                             | 1962         | 141.8                  |                                   | 15                 | 144.8                                              |                                   |
| 02489000                     | Pearl River at U.S. Highway 98 at Columbia                                                             | 5,690                                  | 137.8         | msl                         | 1874<br>1929-54,<br>1956-73 | 1874<br>1938 | f147<br>142.21         | 72,600                            | 15                 | 143.06<br>lu143.7<br>ru144.4<br>ld141.8<br>rd141.2 | 93,900                            |

## Summary of flood stages and discharges--Continued

| Number                       | Stream and place of determination                                                       | Drainage<br>area<br>(mi <sup>2</sup> ) | River<br>mile | Datum<br>of<br>gage<br>(ft) | Maximum previously known |              |                                          |                                   | Maximum April 1974 |                                          |                                   |
|------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------|---------------|-----------------------------|--------------------------|--------------|------------------------------------------|-----------------------------------|--------------------|------------------------------------------|-----------------------------------|
|                              |                                                                                         |                                        |               |                             | Period                   | Year         | Gage<br>height<br>(ft)                   | Discharge<br>(ft <sup>3</sup> /s) | Date               | Gage<br>height<br>(ft)                   | Discharge<br>(ft <sup>3</sup> /s) |
| Pearl River basin--Continued |                                                                                         |                                        |               |                             |                          |              |                                          |                                   |                    |                                          |                                   |
| 02489252                     | Lower Little Creek at State Highway 43, 9 miles south of Columbia                       | 120                                    |               | msl                         | 1960,<br>1961            | 1960         | 126.81                                   |                                   | 13                 | 126.79                                   |                                   |
|                              | Pearl River backwater at Lower Little Creek at State Highway 43                         |                                        | 121.9         | msl                         | 1938,<br>1962            | 1938<br>1962 | 123.39<br>120.20                         |                                   | 17                 | 125.52                                   |                                   |
|                              | Pearl River backwater at Clear Creek at State Highway 43,<br>16 miles south of Columbia |                                        | 108.2         | msl                         |                          |              |                                          |                                   | 17                 | 111.28                                   |                                   |
| 02489500                     | Pearl River at Louisiana State Highway 10, near Bogalusa, La.                           | 6,630                                  | 78.2          | 55.00                       | 1939-73                  | 1961         | 21.70                                    | 88,200                            | 17                 | 22.13                                    | 99,000                            |
| Homochitto River basin       |                                                                                         |                                        |               |                             |                          |              |                                          |                                   |                    |                                          |                                   |
| 07290950                     | Homochitto River at State Highway 550, 4 miles west of Caseyville                       |                                        | 77.7          | msl                         | 1961,<br>1965            | 1965         | 321.2                                    |                                   | 13                 | u322.5<br>d322.1                         |                                   |
|                              | Homochitto River at county highway, 6.5 miles northeast of<br>McCalls Creek             |                                        | 71.3          | msl                         |                          | 1965         | 281.5                                    |                                   | 13                 | 283.1                                    |                                   |
|                              | Homochitto River at U.S. Highway 84 near Eddiceton                                      | 180                                    | 62.8          | msl                         | 1939-73                  | 1939<br>1964 | 1u235.1<br>ru234.7<br>1d234.6<br>rd332.8 | 30,900                            | 13                 | 1u238.4<br>ru238.0<br>1d237.4<br>rd234.4 |                                   |
| 07291000                     | Homochitto River near Eddiceton at Mississippi Central Railroad<br>bridge (gage)        | 180                                    | 62.6          | 217.22                      | 1942-73                  | 1965         | 16.82                                    | 29,400                            | 13                 | 19.53                                    | 55,400                            |
| 07291500                     | Homochitto River at U.S. Highway 98 near Bude                                           | 399                                    | 55.5          | msl                         | 1942-65                  | 1965         | 1d202.61                                 |                                   | 13                 | 1u208.3<br>ru207.2<br>1d205.6<br>rd205.7 |                                   |
| 07292500                     | Homochitto River near Rosetta                                                           | 750                                    | 30.0          | 94.39                       | 1952-73                  | 1953<br>1965 | 36.03<br>29.30                           | 141,000                           | 13                 | 28.60                                    | 150,000                           |
| 07294500                     | Homochitto River at U.S. Highway 61 near Dolorosa                                       | 1,120                                  | 9.5           | msl                         | 1938-73                  | 1938         | 80.7                                     |                                   | 13                 | 74.70                                    |                                   |

a Flood history since date.

b In gage well.

c Outside gage well.

e Estimated.

f Approximately.

g Maximum stage known since 1865, from information by local resident.

u Upstream.

d Downstream.

l Left.

r Right.

PART 2. WATER QUALITY RECORDS



## WATER QUALITY RECORDS

## EASTERN GULF OF MEXICO BASINS

## MOBILE RIVER BASIN

02430000 MACKEYS CREEK NEAR DENNIS, MISS.

LOCATION.--Lat 34°31'34", long 88°19'22", in NE¼SW¼ sec.26, T.6 S., R.9 E., Chickasaw meridian, Tishomingo County, at gaging station at old crossing 0.1 mile (0.2 km) downstream from bridge on State Highway 4, at Narrows dam site, 6 miles (9.7 km) southwest of Dennis, and 10 miles (16.1 km) upstream from confluence with Big Brown Creek.

DRAINAGE AREA.--66.8 mi<sup>2</sup> (173 km<sup>2</sup>).

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE  | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | DIS-<br>SOLVED<br>SILICA<br>(SiO <sub>2</sub> )<br>(MG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG) | BICAR-<br>BONATE<br>(HCO <sub>3</sub> )<br>(MG/L) | CAR-<br>BONATE<br>(CO <sub>3</sub> )<br>(MG/L) | ALKA-<br>LINITY<br>AS<br>CACO <sub>3</sub><br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(SO <sub>4</sub> )<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>FLUO-<br>RIDE<br>(F)<br>(MG/L) |
|-------|------|------------------------------------------|-----------------------------------------------------------|--------------------------------------------------|-----------------------------------------------|---------------------------------------------------|------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------|--------------------------------------------------|
| DEC.  |      |                                          |                                                           |                                                  |                                               |                                                   |                                                |                                                      |                                                           |                                                   |                                                  |
| 20... | 1630 | 178                                      | 2.5                                                       | --                                               | --                                            | 9                                                 | 0                                              | 7                                                    | 3.4                                                       | 1.6                                               | .1                                               |
| MAR.  |      |                                          |                                                           |                                                  |                                               |                                                   |                                                |                                                      |                                                           |                                                   |                                                  |
| 25... | 1700 | 137                                      | --                                                        | --                                               | --                                            | --                                                | --                                             | --                                                   | --                                                        | --                                                | --                                               |
| APR.  |      |                                          |                                                           |                                                  |                                               |                                                   |                                                |                                                      |                                                           |                                                   |                                                  |
| 03... | 1400 | 152                                      | 7.6                                                       | --                                               | --                                            | --                                                | --                                             | --                                                   | --                                                        | --                                                | --                                               |
| 22... | 1100 | 155                                      | --                                                        | 2.1                                              | 1.0                                           | 12                                                | --                                             | 10                                                   | 2.7                                                       | 2.2                                               | --                                               |
| MAY   |      |                                          |                                                           |                                                  |                                               |                                                   |                                                |                                                      |                                                           |                                                   |                                                  |
| 06... | 1030 | 152                                      | --                                                        | --                                               | --                                            | --                                                | --                                             | --                                                   | --                                                        | --                                                | --                                               |
| 21... | 1130 | 95                                       | --                                                        | 5.3                                              | 1.0                                           | 14                                                | --                                             | 11                                                   | --                                                        | --                                                | --                                               |
| JUNE  |      |                                          |                                                           |                                                  |                                               |                                                   |                                                |                                                      |                                                           |                                                   |                                                  |
| 03... | 1100 | 160                                      | --                                                        | 3.5                                              | .8                                            | 9                                                 | --                                             | 7                                                    | 3.6                                                       | 1.1                                               | --                                               |
| 17... | 1000 | 100                                      | --                                                        | 3.8                                              | .9                                            | 12                                                | --                                             | 10                                                   | --                                                        | --                                                | --                                               |
| JULY  |      |                                          |                                                           |                                                  |                                               |                                                   |                                                |                                                      |                                                           |                                                   |                                                  |
| 01... | 1130 | 72                                       | --                                                        | 4.1                                              | 1.0                                           | 12                                                | 0                                              | 10                                                   | 3.1                                                       | 2.1                                               | --                                               |
| 15... | 1300 | 60                                       | --                                                        | 2.7                                              | .9                                            | 12                                                | 0                                              | 10                                                   | --                                                        | --                                                | --                                               |
| 29... | 1130 | 70                                       | --                                                        | 2.8                                              | .6                                            | 15                                                | --                                             | 12                                                   | 2.8                                                       | 1.7                                               | --                                               |
| AUG.  |      |                                          |                                                           |                                                  |                                               |                                                   |                                                |                                                      |                                                           |                                                   |                                                  |
| 21... | 1100 | 55                                       | --                                                        | 1.9                                              | 1.0                                           | 25                                                | 0                                              | 21                                                   | --                                                        | --                                                | --                                               |
| SEP.  |      |                                          |                                                           |                                                  |                                               |                                                   |                                                |                                                      |                                                           |                                                   |                                                  |
| 03... | 1500 | 187                                      | --                                                        | 1.3                                              | .4                                            | 10                                                | 0                                              | 8                                                    | 3.7                                                       | 3.5                                               | --                                               |
| 19... | 1330 | 69                                       | --                                                        | .7                                               | .9                                            | 13                                                | 0                                              | 11                                                   | --                                                        | --                                                | --                                               |

| DATE  | TOTAL<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>NITRITE<br>(N)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(NO <sub>3</sub> )<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOL-<br>VED-<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) |
|-------|-----------------------------------|-----------------------------------|------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------------|-----------------------------------------|--------------------------------------------------------|-------------------------------------------|----------------------------------------------------------|
| DEC.  |                                   |                                   |                                                      |                                                               |                                           |                                           |                                                          |                                         |                                                        |                                           |                                                          |
| 20... | --                                | --                                | --                                                   | .11                                                           | --                                        | --                                        | --                                                       | --                                      | --                                                     | --                                        | --                                                       |
| MAR.  |                                   |                                   |                                                      |                                                               |                                           |                                           |                                                          |                                         |                                                        |                                           |                                                          |
| 25... | --                                | --                                | --                                                   | --                                                            | --                                        | --                                        | --                                                       | --                                      | --                                                     | --                                        | --                                                       |
| APR.  |                                   |                                   |                                                      |                                                               |                                           |                                           |                                                          |                                         |                                                        |                                           |                                                          |
| 03... | --                                | --                                | .05                                                  | --                                                            | .04                                       | .26                                       | .30                                                      | .35                                     | 1.6                                                    | .11                                       | --                                                       |
| 22... | .07                               | .01                               | .08                                                  | --                                                            | .29                                       | .20                                       | .49                                                      | .57                                     | 2.5                                                    | .04                                       | .02                                                      |
| MAY   |                                   |                                   |                                                      |                                                               |                                           |                                           |                                                          |                                         |                                                        |                                           |                                                          |
| 06... | --                                | --                                | --                                                   | --                                                            | --                                        | --                                        | --                                                       | --                                      | --                                                     | --                                        | --                                                       |
| 21... | .10                               | .01                               | .11                                                  | --                                                            | .03                                       | .24                                       | .27                                                      | .38                                     | 1.7                                                    | .03                                       | .01                                                      |
| JUNE  |                                   |                                   |                                                      |                                                               |                                           |                                           |                                                          |                                         |                                                        |                                           |                                                          |
| 03... | .09                               | .01                               | .10                                                  | --                                                            | .05                                       | .41                                       | .46                                                      | .56                                     | 2.5                                                    | .04                                       | .00                                                      |
| 17... | .10                               | .00                               | .10                                                  | --                                                            | .05                                       | .28                                       | .33                                                      | .43                                     | 1.9                                                    | .02                                       | .00                                                      |
| JULY  |                                   |                                   |                                                      |                                                               |                                           |                                           |                                                          |                                         |                                                        |                                           |                                                          |
| 01... | .06                               | .00                               | .06                                                  | --                                                            | .00                                       | .21                                       | .21                                                      | .27                                     | 1.2                                                    | .01                                       | .01                                                      |
| 15... | .11                               | .00                               | .11                                                  | --                                                            | .06                                       | .57                                       | .63                                                      | .74                                     | 3.3                                                    | .03                                       | --                                                       |
| 29... | .08                               | .01                               | .09                                                  | --                                                            | .01                                       | .38                                       | .39                                                      | .48                                     | 2.1                                                    | .02                                       | .01                                                      |
| AUG.  |                                   |                                   |                                                      |                                                               |                                           |                                           |                                                          |                                         |                                                        |                                           |                                                          |
| 21... | .08                               | .01                               | .09                                                  | --                                                            | .01                                       | .27                                       | .28                                                      | .37                                     | 1.6                                                    | .04                                       | .03                                                      |
| SEP.  |                                   |                                   |                                                      |                                                               |                                           |                                           |                                                          |                                         |                                                        |                                           |                                                          |
| 03... | .08                               | .01                               | .09                                                  | --                                                            | .05                                       | .50                                       | .55                                                      | .64                                     | 2.8                                                    | .09                                       | .01                                                      |
| 19... | .05                               | .00                               | .05                                                  | --                                                            | .01                                       | .22                                       | .23                                                      | .28                                     | 1.2                                                    | .02                                       | .00                                                      |

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

02430000 MACKEYS CREEK NEAR DENNIS, MISS.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE          | TOTAL<br>ORTHO<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHO.<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHO<br>PHOS-<br>PHATE<br>(PO4)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) |
|---------------|----------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|------------------------------------|---------------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|
| DEC.<br>20... | --                                                 | .02                                                          | .06                                                          | --                                                               | --                                                 | --                                               | --                                 | --                                                | 33                                                         | 6.1           | 6.0                         |
| MAR.<br>25... | --                                                 | --                                                           | --                                                           | --                                                               | --                                                 | --                                               | --                                 | --                                                | 40                                                         | 6.5           | 10.0                        |
| APR.<br>03... | --                                                 | --                                                           | --                                                           | 26                                                               | .04                                                | 10.7                                             | --                                 | --                                                | 30                                                         | 6.5           | 18.0                        |
| 22...         | --                                                 | --                                                           | --                                                           | 26                                                               | .04                                                | 10.9                                             | 9                                  | 0                                                 | 31                                                         | 6.7           | 18.5                        |
| MAY<br>06...  | --                                                 | --                                                           | --                                                           | --                                                               | --                                                 | --                                               | --                                 | --                                                | --                                                         | --            | --                          |
| 21...         | .05                                                | --                                                           | --                                                           | 40                                                               | .05                                                | 10.3                                             | 17                                 | 6                                                 | 39                                                         | 6.3           | 24.0                        |
| JUNE<br>03... | .02                                                | --                                                           | --                                                           | 28                                                               | .04                                                | 12.1                                             | 12                                 | 5                                                 | 32                                                         | 5.5           | 21.0                        |
| 17...         | .03                                                | --                                                           | --                                                           | 23                                                               | .03                                                | 6.21                                             | 13                                 | 3                                                 | 38                                                         | 6.4           | 21.5                        |
| JULY<br>01... | .01                                                | --                                                           | --                                                           | 40                                                               | .05                                                | 7.78                                             | 14                                 | 5                                                 | 35                                                         | 6.2           | 22.0                        |
| 15...         | .01                                                | --                                                           | --                                                           | 42                                                               | .06                                                | 6.80                                             | 10                                 | 1                                                 | 65                                                         | 6.1           | 25.0                        |
| 29...         | .02                                                | --                                                           | --                                                           | 45                                                               | .06                                                | 8.51                                             | 9                                  | 0                                                 | 35                                                         | 7.0           | 25.5                        |
| AUG.<br>21... | .01                                                | --                                                           | --                                                           | 44                                                               | .06                                                | 6.53                                             | 9                                  | 0                                                 | 38                                                         | 5.8           | 23.0                        |
| SEP.<br>03... | .02                                                | --                                                           | --                                                           | 18                                                               | .02                                                | 9.09                                             | 5                                  | 0                                                 | 32                                                         | 6.6           | 21.0                        |
| 19...         | .01                                                | --                                                           | --                                                           | 38                                                               | .05                                                | 7.08                                             | 5                                  | 0                                                 | 34                                                         | 5.9           | 20.5                        |

| DATE          | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(HIGH<br>LEVEL)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) | CARBON<br>DIOXIDE<br>(CO2)<br>(MG/L) | IMME-<br>DIATE<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | PHENOLS<br>(UG/L) | TOTAL<br>MERCURY<br>(HG)<br>(UG/L) |
|---------------|----------------------------------------------|------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|--------------------------------------|------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|---------------------------------------------|-------------------|------------------------------------|
| DEC.<br>20... | --                                           | --                                 | --                                                             | --                                                  | 11                                   | --                                                         | --                                                | --                                                    | --                                          | --                | --                                 |
| MAR.<br>25... | --                                           | 9.6                                | --                                                             | --                                                  | --                                   | --                                                         | --                                                | --                                                    | --                                          | --                | --                                 |
| APR.<br>03... | --                                           | 7.3                                | 16                                                             | --                                                  | --                                   | --                                                         | --                                                | --                                                    | --                                          | --                | --                                 |
| 22...         | 60                                           | 8.4                                | 8                                                              | --                                                  | 3.8                                  | --                                                         | --                                                | --                                                    | 7.7                                         | 0                 | --                                 |
| MAY<br>06...  | --                                           | --                                 | --                                                             | .0                                                  | --                                   | --                                                         | --                                                | --                                                    | --                                          | --                | --                                 |
| 21...         | 100                                          | 7.0                                | 4                                                              | .6                                                  | 11                                   | 500                                                        | 100                                               | 150                                                   | --                                          | --                | --                                 |
| JUNE<br>03... | 70                                           | 8.2                                | 12                                                             | 5.0                                                 | 46                                   | --                                                         | --                                                | --                                                    | 8.5                                         | 1                 | .7                                 |
| 17...         | 100                                          | 8.1                                | 10                                                             | --                                                  | 7.6                                  | --                                                         | --                                                | --                                                    | 4.9                                         | --                | --                                 |
| JULY<br>01... | 100                                          | 8.0                                | 13                                                             | --                                                  | 12                                   | --                                                         | --                                                | --                                                    | 5.4                                         | 2                 | .0                                 |
| 15...         | 70                                           | 8.5                                | 4                                                              | 2.0                                                 | 15                                   | --                                                         | --                                                | --                                                    | 9.5                                         | --                | --                                 |
| 29...         | 80                                           | 8.3                                | 2                                                              | 1.3                                                 | 2.4                                  | --                                                         | --                                                | --                                                    | 7.0                                         | 2                 | .1                                 |
| AUG.<br>21... | 50                                           | 8.3                                | --                                                             | .4                                                  | 63                                   | --                                                         | --                                                | --                                                    | 20                                          | --                | --                                 |
| SEP.<br>03... | 90                                           | 8.0                                | 20                                                             | --                                                  | 4.0                                  | --                                                         | --                                                | --                                                    | --                                          | 0                 | .0                                 |
| 19...         | 70                                           | 9.2                                | 12                                                             | 2.2                                                 | 26                                   | --                                                         | --                                                | --                                                    | 3.5                                         | --                | --                                 |

PH (UNITS) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| OCTOBER |     |     |     | NOVEMBER |      | DECEMBER |      | JANUARY |        | FEBRUARY |           | MARCH |  |
|---------|-----|-----|-----|----------|------|----------|------|---------|--------|----------|-----------|-------|--|
| DAY     | MAX | MIN | MAX | MIN      | MAX  | MIN      | MAX  | MIN     | MAX    | MIN      | MAX       | MIN   |  |
| 1       | 7.1 | 6.3 | 5.5 | 5.1      | 7.2  | 5.6      | 5.6  | 5.2     | ---    | ---      | 5.8       | 5.5   |  |
| 2       | 6.9 | 6.3 | 5.6 | 5.4      | 6.8  | 5.8      | 5.9  | 5.3     | ---    | ---      | 5.8       | 5.6   |  |
| 3       | 6.2 | 5.8 | --- | ---      | ---  | ---      | 6.6  | 4.9     | ---    | ---      | 6.0       | 5.6   |  |
| 4       | 6.3 | 5.8 | 5.8 | 5.6      | ---  | ---      | ---  | ---     | 6.4    | 5.4      | 6.0       | 5.7   |  |
| 5       | 6.0 | 5.6 | 6.6 | 6.2      | ---  | ---      | ---  | ---     | 6.6    | 6.1      | 6.0       | 5.8   |  |
| 6       | 6.6 | 5.6 | 6.6 | 5.9      | ---  | ---      | 6.6  | 5.3     | ---    | ---      | 6.0       | 5.7   |  |
| 7       | 5.8 | 5.4 | 6.5 | 6.1      | ---  | ---      | 6.3  | 5.4     | ---    | ---      | 5.8       | 5.5   |  |
| 8       | 5.8 | 5.5 | 6.5 | 6.1      | ---  | ---      | 7.3  | 5.3     | ---    | ---      | 6.2       | 5.5   |  |
| 9       | 6.2 | 5.9 | 6.3 | 5.9      | ---  | ---      | 6.8  | 5.8     | 6.9    | 6.6      | 5.6       | 5.2   |  |
| 10      | 6.8 | 5.6 | 6.3 | 5.7      | ---  | ---      | 6.9  | 5.5     | 7.0    | 6.6      | 5.4       | 5.0   |  |
| 11      | 5.9 | 5.6 | 6.3 | 5.7      | ---  | ---      | ---  | ---     | 7.0    | 6.4      | 5.4       | 5.0   |  |
| 12      | 6.5 | 6.0 | 6.3 | 5.6      | ---  | ---      | ---  | ---     | 6.9    | 6.5      | 6.5       | 5.0   |  |
| 13      | 7.1 | 5.0 | 6.2 | 5.6      | ---  | ---      | ---  | ---     | ---    | ---      | 6.5       | 5.0   |  |
| 14      | --- | --- | 5.9 | 5.6      | ---  | ---      | ---  | ---     | ---    | ---      | 6.7       | 5.0   |  |
| 15      | --- | --- | 5.7 | 5.0      | ---  | ---      | ---  | ---     | ---    | ---      | ---       | ---   |  |
| 16      | --- | --- | 6.8 | 5.9      | ---  | ---      | ---  | ---     | ---    | ---      | ---       | ---   |  |
| 17      | --- | --- | 7.2 | 5.9      | ---  | ---      | ---  | ---     | ---    | ---      | ---       | ---   |  |
| 18      | --- | --- | --- | ---      | ---  | ---      | ---  | ---     | ---    | ---      | ---       | ---   |  |
| 19      | --- | --- | 6.1 | 5.0      | ---  | ---      | ---  | ---     | ---    | ---      | ---       | ---   |  |
| 20      | --- | --- | 6.9 | 6.2      | 5.9  | 5.7      | ---  | ---     | ---    | ---      | ---       | ---   |  |
| 21      | 5.9 | 5.4 | --- | ---      | 6.2  | 5.8      | ---  | ---     | ---    | ---      | ---       | ---   |  |
| 22      | 5.7 | 5.4 | --- | ---      | 6.1  | 5.7      | ---  | ---     | ---    | ---      | ---       | ---   |  |
| 23      | 5.6 | 5.3 | --- | ---      | 6.2  | 6.0      | ---  | ---     | ---    | ---      | ---       | ---   |  |
| 24      | --- | --- | --- | ---      | 6.1  | 6.0      | ---  | ---     | ---    | ---      | ---       | ---   |  |
| 25      | 6.6 | 5.1 | --- | ---      | 6.0  | 5.8      | ---  | ---     | 6.0    | 5.3      | ---       | ---   |  |
| 26      | 7.8 | 5.2 | --- | ---      | 5.8  | 5.3      | ---  | ---     | 6.0    | 5.4      | ---       | ---   |  |
| 27      | 6.4 | 5.2 | --- | ---      | 5.7  | 5.3      | ---  | ---     | 5.8    | 5.4      | ---       | ---   |  |
| 28      | --- | --- | --- | ---      | 5.7  | 5.3      | ---  | ---     | 5.7    | 5.4      | ---       | ---   |  |
| 29      | --- | --- | 5.3 | 4.9      | 5.8  | 5.4      | ---  | ---     | ---    | ---      | ---       | ---   |  |
| 30      | --- | --- | 5.6 | 5.3      | 5.9  | 5.4      | ---  | ---     | ---    | ---      | ---       | ---   |  |
| 31      | --- | --- | --- | ---      | 5.8  | 5.3      | ---  | ---     | ---    | ---      | ---       | ---   |  |
| MONTH   | --- | --- | --- | ---      | ---  | ---      | ---  | ---     | ---    | ---      | ---       | ---   |  |
|         |     |     |     |          |      |          |      |         |        |          |           |       |  |
| APRIL   |     |     | MAY |          | JUNE |          | JULY |         | AUGUST |          | SEPTEMBER |       |  |
| DAY     | MAX | MIN | MAX | MIN      | MAX  | MIN      | MAX  | MIN     | MAX    | MIN      | MAX       | MIN   |  |
| 1       | --- | --- | 6.2 | 5.7      | ---  | ---      | 7.2  | 6.9     | ---    | ---      | ---       | ---   |  |
| 2       | --- | --- | 6.6 | 6.1      | ---  | ---      | 7.0  | 6.9     | ---    | ---      | ---       | ---   |  |
| 3       | --- | --- | 6.8 | 6.0      | ---  | ---      | 6.9  | 6.2     | ---    | ---      | 6.9       | 6.0   |  |
| 4       | 6.5 | 6.2 | 6.9 | 6.2      | ---  | ---      | 6.4  | 6.3     | ---    | ---      | 6.3       | 6.5   |  |
| 5       | 7.2 | 6.3 | 7.2 | 6.6      | ---  | ---      | 7.1  | 5.7     | ---    | ---      | 6.9       | 5.8   |  |
| 6       | 7.1 | 6.2 | 6.8 | 5.5      | ---  | ---      | 6.2  | 5.7     | 7.1    | 6.8      | 6.0       | 5.5   |  |
| 7       | 7.1 | 6.5 | 5.3 | 5.6      | ---  | ---      | 6.5  | 6.2     | 7.1    | 7.0      | 6.8       | 5.1   |  |
| 8       | 6.9 | 6.1 | 5.1 | 5.3      | ---  | ---      | 6.6  | 6.5     | 7.0    | 6.7      | 6.5       | 5.1   |  |
| 9       | 6.7 | 5.9 | 6.0 | 5.1      | ---  | ---      | 6.9  | 6.3     | 7.0    | 6.8      | 6.5       | 5.4   |  |
| 10      | --- | --- | 5.4 | 5.1      | ---  | ---      | 7.1  | 6.9     | 7.0    | 6.8      | ---       | ---   |  |
| 11      | --- | --- | 5.1 | 4.6      | ---  | ---      | 7.1  | 6.9     | 6.8    | 6.6      |           |       |  |

02430000 MACKEYS CREEK NEAR DENNIS, MISS.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| OCTOBER |      |      | NOVEMBER |      | DECEMBER |      | JANUARY |      | FEBRUARY |     | MARCH |      |
|---------|------|------|----------|------|----------|------|---------|------|----------|-----|-------|------|
| DAY     | MAX  | MIN  | MAX      | MIN  | MAX      | MIN  | MAX     | MIN  | MAX      | MIN | MAX   | MIN  |
| 1       | 23.0 | 22.0 | 12.0     | 10.5 | 12.0     | 8.0  | 8.0     | 5.0  | ---      | --- | 14.0  | 10.0 |
| 2       | 21.5 | 20.5 | 13.0     | 11.0 | 13.0     | 8.5  | 6.5     | 4.0  | ---      | --- | 15.0  | 14.0 |
| 3       | 22.5 | 20.5 | ---      | ---  | 12.0     | 9.5  | 7.0     | 4.5  | ---      | --- | 16.0  | 15.0 |
| 4       | 21.5 | 20.5 | ---      | ---  | 11.0     | 10.5 | 8.5     | 4.0  | 9.0      | 8.0 | 17.5  | 16.0 |
| 5       | 22.0 | 20.5 | 13.0     | 13.0 | 12.0     | 9.5  | 9.0     | 7.0  | 9.5      | 8.0 | 16.5  | 16.0 |
| 6       | 21.0 | 19.0 | 12.5     | 10.0 | 9.5      | 8.0  | 11.0    | 9.0  | ---      | --- | 18.0  | 17.0 |
| 7       | 21.0 | 19.0 | 11.5     | 10.0 | ---      | ---  | 11.0    | 6.5  | ---      | --- | 18.5  | 17.0 |
| 8       | 21.5 | 20.5 | 12.0     | 11.0 | ---      | ---  | 10.0    | ---  | ---      | 6.0 | 19.0  | 17.0 |
| 9       | 21.5 | 21.0 | 12.0     | 12.0 | ---      | ---  | 11.0    | 10.0 | 6.0      | 5.0 | 18.0  | 17.0 |
| 10      | 22.0 | 21.0 | 9.0      | 8.0  | ---      | ---  | 11.5    | 12.0 | 6.5      | 5.5 | 18.0  | 18.0 |
| 11      | 22.0 | 20.0 | 9.0      | 7.5  | ---      | ---  | 12.0    | 10.0 | 8.0      | 6.0 | 18.0  | 18.0 |
| 12      | 22.0 | 20.0 | 9.0      | 7.0  | ---      | ---  | 12.0    | 13.0 | 9.0      | 6.0 | 18.0  | 17.0 |
| 13      | 22.0 | 20.0 | 10.0     | 8.0  | ---      | ---  | ---     | ---  | 10.0     | 8.0 | 16.5  | 13.0 |
| 14      | 21.0 | 20.0 | 13.0     | 9.0  | ---      | ---  | 8.0     | 8.0  | 10.0     | 9.0 | 13.0  | 10.0 |
| 15      | 22.0 | 19.0 | 15.0     | 12.5 | ---      | ---  | 8.5     | 8.5  | 11.0     | 9.0 | 13.0  | 10.5 |
| 16      | 21.0 | 18.0 | 15.0     | 11.5 | ---      | ---  | 11.5    | 11.0 | 10.0     | 9.0 | 13.0  | 10.5 |
| 17      | 19.0 | 16.0 | 12.0     | 10.0 | ---      | ---  | 12.5    | 12.0 | 10.5     | 9.0 | ---   | ---  |
| 18      | 18.0 | 13.5 | 12.0     | 10.0 | ---      | ---  | 13.0    | 13.0 | ---      | --- | ---   | ---  |
| 19      | 18.5 | 13.0 | 11.0     | 10.0 | ---      | ---  | 14.0    | 14.0 | ---      | --- | ---   | ---  |
| 20      | 18.0 | 14.0 | 12.0     | 10.5 | 6.0      | 5.0  | 15.0    | 15.0 | ---      | --- | ---   | ---  |
| 21      | 18.0 | 15.0 | 10.0     | 10.0 | 5.0      | 5.0  | 15.0    | 12.0 | 10.0     | 8.0 | ---   | ---  |
| 22      | 17.0 | 14.5 | ---      | ---  | 3.0      | 2.5  | 13.0    | 11.0 | 10.0     | 8.0 | ---   | ---  |
| 23      | 17.0 | 14.0 | 14.0     | 14.0 | 5.0      | 2.0  | 13.0    | 12.0 | 9.0      | 7.0 | ---   | ---  |
| 24      | 16.0 | 15.0 | 14.0     | 14.0 | 7.0      | 3.0  | 13.0    | 10.0 | 8.0      | 8.0 | ---   | ---  |
| 25      | 15.0 | 14.0 | 14.0     | 14.0 | 9.0      | 5.0  | ---     | ---  | 6.0      | 5.0 | ---   | ---  |
| 26      | 15.0 | 15.0 | 14.0     | 10.0 | 9.0      | 7.5  | ---     | ---  | 6.0      | 5.0 | ---   | ---  |
| 27      | 15.0 | 15.0 | ---      | ---  | 9.0      | 9.0  | ---     | ---  | 7.5      | 6.0 | ---   | ---  |
| 28      | 14.5 | 14.0 | 12.0     | 11.0 | 9.0      | 7.5  | ---     | ---  | 10.0     | 8.0 | ---   | ---  |
| 29      | 14.5 | 12.0 | 11.0     | 9.0  | 9.0      | 6.0  | ---     | ---  | ---      | --- | ---   | ---  |
| 30      | 12.0 | 11.0 | 10.5     | 8.0  | 10.0     | 7.5  | ---     | ---  | ---      | --- | ---   | ---  |
| 31      | 12.5 | 12.0 | ---      | ---  | 10.0     | 8.0  | ---     | ---  | ---      | --- | ---   | ---  |
| MONTH   | 23.0 | 11.0 | 15.0     | 7.0  | ---      | ---  | ---     | ---  | ---      | --- | ---   | ---  |

| APRIL |      |      | MAY  |      | JUNE |      | JULY |      | AUGUST |     | SEPTEMBER |      |
|-------|------|------|------|------|------|------|------|------|--------|-----|-----------|------|
| DAY   | MAX  | MIN  | MAX  | MIN  | MAX  | MIN  | MAX  | MIN  | MAX    | MIN | MAX       | MIN  |
| 1     | ---  | ---  | 21.0 | 18.0 | 23.0 | 21.5 | 27.5 | 25.0 | ---    | --- | 24.0      | 23.0 |
| 2     | ---  | ---  | 20.0 | 19.0 | 22.0 | 19.0 | 27.0 | 26.0 | ---    | --- | 22.0      | 23.0 |
| 3     | ---  | ---  | 20.0 | 19.0 | 22.0 | 17.5 | 25.5 | 23.0 | ---    | --- | 20.5      | 19.0 |
| 4     | 19.0 | 17.5 | 20.5 | 18.0 | 23.0 | 22.0 | 26.0 | 24.0 | ---    | --- | 19.0      | 16.5 |
| 5     | 17.0 | 13.5 | 18.0 | 17.0 | 24.0 | 22.5 | 25.0 | 23.0 | ---    | --- | 17.5      | 16.5 |
|       |      |      |      |      |      |      |      |      |        |     |           |      |



DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| OCTOBER |      |      | NOVEMBER |      | DECEMBER |      | JANUARY |      | FEBRUARY |      | MARCH     |     |
|---------|------|------|----------|------|----------|------|---------|------|----------|------|-----------|-----|
| DAY     | MAX  | MIN  | MAX      | MIN  | MAX      | MIN  | MAX     | MIN  | MAX      | MIN  | MAX       | MIN |
| 1       | 10.4 | 8.1  | 10.5     | 9.9  | 9.4      | 8.5  | 11.2    | 9.6  | 9.5      | 8.2  | 9.5       | 8.3 |
| 2       | 8.7  | 7.2  | 9.8      | 9.2  | 9.6      | 9.2  | 11.1    | 10.7 | 10.1     | 7.7  | 11.7      | 8.2 |
| 3       | 8.1  | 6.7  | 10.7     | 6.3  | ---      | ---  | 11.9    | 9.0  | 8.8      | 7.7  | 8.6       | 7.5 |
| 4       | 7.3  | 6.3  | 12.2     | 10.0 | 11.0     | 9.9  | 13.3    | 8.3  | 11.5     | 7.7  | 7.8       | 7.1 |
| 5       | 7.1  | 6.0  | 11.1     | 9.5  | 11.1     | 10.7 | 13.0    | 9.3  | 11.8     | 11.0 | 7.2       | 6.6 |
| 6       | 9.4  | 6.7  | 9.9      | 9.8  | ---      | ---  | 10.6    | 7.6  | 11.3     | 10.6 | 7.4       | 6.6 |
| 7       | 9.8  | 6.7  | 10.1     | 9.2  | ---      | ---  | ---     | ---  | 11.3     | 10.6 | 7.1       | 6.2 |
| 8       | 8.9  | 5.5  | 11.7     | 6.9  | ---      | ---  | 12.4    | 5.7  | 12.3     | 11.0 | 7.3       | 6.1 |
| 9       | 8.9  | 5.4  | 11.8     | 7.9  | ---      | ---  | 11.0    | 3.7  | 12.2     | 11.8 | 7.1       | 6.6 |
| 10      | 9.0  | 7.7  | 10.4     | 7.8  | ---      | ---  | 10.0    | 3.1  | 12.3     | 11.7 | 7.2       | 6.6 |
| 11      | 8.3  | 7.8  | 11.8     | 8.0  | ---      | ---  | 10.4    | 9.1  | 12.1     | 11.2 | 8.0       | 7.3 |
| 12      | 8.7  | 8.1  | 11.9     | 8.9  | ---      | ---  | 10.6    | 10.0 | 12.0     | 11.1 | 8.0       | 7.6 |
| 13      | 8.7  | 8.3  | 11.8     | 8.1  | ---      | ---  | 10.8    | 10.6 | 11.5     | 10.5 | 8.8       | 7.9 |
| 14      | 8.8  | 5.6  | 12.1     | 9.4  | ---      | ---  | ---     | ---  | ---      | ---  | 9.2       | 8.7 |
| 15      | 9.4  | 5.9  | 11.4     | 8.4  | ---      | ---  | ---     | ---  | ---      | ---  | 9.5       | 8.5 |
| 16      | 9.4  | 7.2  | 11.9     | 8.8  | ---      | ---  | 10.6    | 10.2 | ---      | ---  | 11.1      | 5.3 |
| 17      | 9.0  | 7.9  | 10.3     | 8.4  | ---      | ---  | 10.0    | 9.7  | ---      | ---  | 9.6       | 5.6 |
| 18      | 9.3  | 7.9  | 10.7     | 10.3 | ---      | ---  | ---     | ---  | ---      | ---  | ---       | --- |
| 19      | 9.5  | 7.8  | 11.5     | 9.3  | ---      | ---  | ---     | ---  | ---      | ---  | ---       | --- |
| 20      | 9.8  | 9.3  | 10.5     | 8.9  | 12.9     | 10.4 | 9.1     | 8.4  | ---      | ---  | ---       | --- |
| 21      | 11.2 | 9.8  | 9.1      | 6.2  | 12.5     | 10.2 | 9.8     | 8.8  | ---      | ---  | ---       | --- |
| 22      | 10.5 | 10.1 | 6.6      | 3.5  | 13.0     | 12.0 | ---     | ---  | ---      | ---  | ---       | --- |
| 23      | 11.4 | 9.8  | 7.1      | 2.7  | 12.1     | 11.0 | ---     | ---  | 11.1     | 5.6  | ---       | --- |
| 24      | ---  | 10.0 | 8.3      | 4.3  | 11.4     | 10.7 | ---     | ---  | ---      | ---  | ---       | --- |
| 25      | ---  | 10.1 | 6.8      | 5.5  | 11.0     | 8.5  | ---     | ---  | 11.7     | 10.9 | ---       | --- |
| 26      | ---  | 9.9  | 9.8      | 6.9  | 11.3     | 7.7  | ---     | ---  | 11.7     | 10.7 | ---       | --- |
| 27      | ---  | 9.8  | 10.0     | 5.9  | 12.1     | 10.8 | ---     | ---  | 11.3     | 10.4 | ---       | --- |
| 28      | ---  | 8.9  | 8.2      | 7.3  | 12.3     | 11.3 | 7.8     | 6.8  | 10.4     | 9.8  | ---       | --- |
| 29      | ---  | 10.1 | 9.4      | 8.5  | 11.7     | 10.9 | ---     | ---  | ---      | ---  | ---       | --- |
| 30      | ---  | 10.0 | 9.7      | 9.1  | 11.8     | 10.3 | ---     | ---  | ---      | ---  | ---       | --- |
| 31      | ---  | 10.1 | ---      | ---  | 11.2     | 9.6  | ---     | ---  | ---      | ---  | ---       | --- |
| MONTH   | ---  | 5.4  | 12.2     | 2.7  | ---      | ---  | ---     | ---  | ---      | ---  | ---       | --- |
|         |      |      |          |      |          |      |         |      |          |      |           |     |
| APRIL   |      |      | MAY      |      | JUNE     |      | JULY    |      | AUGUST   |      | SEPTEMBER |     |
| DAY     | MAX  | MIN  | MAX      | MIN  | MAX      | MIN  | MAX     | MIN  | MAX      | MIN  | MAX       | MIN |
| 1       | ---  | ---  | 7.2      | 6.7  | 7.5      | 6.9  | 9.9     | 8.5  | ---      | ---  | 7.1       | 6.5 |
| 2       | ---  | ---  | 6.9      | 6.0  | 7.0      | 6.9  | 9.8     | 8.7  | ---      | ---  | 7.0       | 6.5 |
| 3       | ---  | ---  | 7.6      | 5.9  | 7.9      | 6.5  | 9.2     | 9.1  | ---      | ---  | 8.8       | 8.3 |
| 4       | 7.8  | 6.9  | 7.3      | 6.1  | 7.8      | 7.1  | 9.5     | 9.0  | ---      | ---  | 9.6       | 8.9 |
| 5       | 9.0  | 7.9  | ---      | ---  | 7.4      | 7.0  | 9.6     | 9.0  | ---      | ---  | 9.6       | 9.3 |
| 6       | 9.4  | 8.4  | 8.0      | 7.3  | 7.0      | 6.7  | 9.9     | 8.5  | 8.1      | 8.0  | 9.4       | 9.0 |
| 7       | 8.9  | 8.4  | 7.2      | 6.9  | 6.8      | 6.3  | 9.6     | 9.3  |          |      |           |     |

## PASCAGOULA RIVER BASIN

02473260 LEAF RIVER NEAR PALMER, MISS.

LOCATION.--Lat 31°15'40", long 89°13'35", in SW¼SW¼ sec.32, T.4 N., R.24 E., St. Stephens meridian, Forrest County, on county road, 3 miles (4.8 km) east of Palmer.

DRAINAGE AREA.--1,820 mi<sup>2</sup> (4,710 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: November 1970 to September 1974.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) |
|-------|------|-----------------------------------------------|---------------------------------------------------|------------------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------------|
| OCT.  |      |                                               |                                                   |                                                      |                                           |                                           |                                                          |                                         |                                           |
| 16... | 0700 | 930                                           | --                                                | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| 16... | 1015 | 930                                           | --                                                | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| 16... | 1348 | 930                                           | --                                                | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| 16... | 1650 | 930                                           | --                                                | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| 17... | 0715 | 1080                                          | --                                                | --                                                   | .27                                       | .54                                       | .81                                                      | --                                      | --                                        |
| 17... | 1050 | 1100                                          | --                                                | --                                                   | .28                                       | .45                                       | .73                                                      | --                                      | --                                        |
| 17... | 1425 | 1270                                          | --                                                | --                                                   | .29                                       | .49                                       | .78                                                      | --                                      | --                                        |
| 17... | 2000 | 1330                                          | --                                                | --                                                   | .20                                       | .90                                       | 1.1                                                      | --                                      | --                                        |
| 18... | 0030 | 1350                                          | --                                                | --                                                   | .29                                       | .19                                       | .48                                                      | --                                      | --                                        |
| 18... | 0330 | 1350                                          | --                                                | --                                                   | .23                                       | .03                                       | .26                                                      | --                                      | --                                        |
| 18... | 0645 | 1400                                          | --                                                | --                                                   | .30                                       | .70                                       | 1.0                                                      | --                                      | --                                        |
| 18... | 1025 | 1420                                          | --                                                | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| 18... | 1330 | 1440                                          | --                                                | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| 18... | 1505 | 1440                                          | --                                                | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| DEC.  |      |                                               |                                                   |                                                      |                                           |                                           |                                                          |                                         |                                           |
| 06... | 1300 | 3050                                          | --                                                | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| 12... | 1530 | 1080                                          | --                                                | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| 18... | 1530 | 1020                                          | --                                                | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| JAN.  |      |                                               |                                                   |                                                      |                                           |                                           |                                                          |                                         |                                           |
| 17... | 1630 | 11600                                         | --                                                | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| 29... | 1530 | 13400                                         | 3.2                                               | .04                                                  | --                                        | --                                        | .53                                                      | .57                                     | 2.5                                       |
| FEB.  |      |                                               |                                                   |                                                      |                                           |                                           |                                                          |                                         |                                           |
| 26... | 1800 | 3550                                          | 6.3                                               | .20                                                  | --                                        | --                                        | .33                                                      | .53                                     | 2.3                                       |
| SEP.  |      |                                               |                                                   |                                                      |                                           |                                           |                                                          |                                         |                                           |
| 09... | 1400 | 10500                                         | --                                                | .12                                                  | .10                                       | 1.1                                       | 1.2                                                      | 1.3                                     | 5.8                                       |

## PASCAGOULA RIVER BASIN

177

02473260 LEAF RIVER NEAR PALMER, MISS.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE  | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICHO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | TUR-<br>BID-<br>ITY<br>(JTU) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|-------------------------------------------|------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------|------------------------------------|
| OCT.  |                                           |                                                                  |                                                    |                                                  |                                                            |               |                             |                              |                                    |
| 16... | --                                        | --                                                               | --                                                 | --                                               | 66                                                         | 6.4           | 23.8                        | --                           | 5.6                                |
| 16... | --                                        | --                                                               | --                                                 | --                                               | 66                                                         | 6.2           | 23.5                        | --                           | 5.6                                |
| 16... | --                                        | --                                                               | --                                                 | --                                               | 68                                                         | 6.3           | 24.0                        | --                           | 6.0                                |
| 16... | --                                        | --                                                               | --                                                 | --                                               | 68                                                         | 6.2           | 23.0                        | --                           | 6.3                                |
| 17... | .14                                       | --                                                               | --                                                 | --                                               | 85                                                         | 6.2           | 21.0                        | --                           | 6.5                                |
| 17... | .13                                       | --                                                               | --                                                 | --                                               | 60                                                         | 6.4           | 21.0                        | --                           | 6.9                                |
| 17... | .23                                       | --                                                               | --                                                 | --                                               | 78                                                         | 6.4           | 23.0                        | --                           | 7.0                                |
| 17... | .23                                       | --                                                               | --                                                 | --                                               | 60                                                         | 6.6           | 22.0                        | --                           | 7.2                                |
| 18... | .21                                       | --                                                               | --                                                 | --                                               | 56                                                         | 6.5           | 21.0                        | --                           | 7.1                                |
| 18... | .20                                       | --                                                               | --                                                 | --                                               | 56                                                         | 6.4           | 21.0                        | --                           | 6.7                                |
| 18... | .21                                       | --                                                               | --                                                 | --                                               | 60                                                         | 6.5           | 20.5                        | --                           | 7.1                                |
| 18... | --                                        | --                                                               | --                                                 | --                                               | 60                                                         | 6.5           | 21.0                        | --                           | 8.2                                |
| 18... | --                                        | --                                                               | --                                                 | --                                               | 56                                                         | 6.5           | 23.0                        | --                           | 7.5                                |
| 18... | --                                        | --                                                               | --                                                 | --                                               | 57                                                         | 6.6           | 23.2                        | --                           | 7.0                                |
| DEC.  |                                           |                                                                  |                                                    |                                                  |                                                            |               |                             |                              |                                    |
| 06... | --                                        | --                                                               | --                                                 | --                                               | 65                                                         | 6.7           | 15.0                        | --                           | 8.7                                |
| 12... | --                                        | --                                                               | --                                                 | --                                               | 75                                                         | 7.2           | 12.0                        | --                           | 9.1                                |
| 18... | --                                        | --                                                               | --                                                 | --                                               | 70                                                         | 6.1           | 11.0                        | --                           | 11.6                               |
| JAN.  |                                           |                                                                  |                                                    |                                                  |                                                            |               |                             |                              |                                    |
| 17... | --                                        | --                                                               | --                                                 | --                                               | 64                                                         | 6.4           | 15.0                        | --                           | 9.7                                |
| 29... | .03                                       | 33                                                               | .04                                                | 1190                                             | 30                                                         | 5.6           | 17.5                        | --                           | 9.1                                |
| FEB.  |                                           |                                                                  |                                                    |                                                  |                                                            |               |                             |                              |                                    |
| 26... | .09                                       | 48                                                               | .07                                                | 460                                              | 59                                                         | 5.8           | 12.0                        | --                           | 9.4                                |
| SEP.  |                                           |                                                                  |                                                    |                                                  |                                                            |               |                             |                              |                                    |
| 09... | .58                                       | 38                                                               | .05                                                | 1080                                             | 44                                                         | 5.8           | 22.0                        | 90                           | 6.8                                |

| DATE  | CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(HIGH<br>LEVEL)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) | IMME-<br>DIATE<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | PHENOLS<br>(UG/L) | SUS-<br>PENDE<br>MENT<br>(MG/L) | SUS-<br>PENDE<br>MENT<br>DIS-<br>CHARGE<br>(T/DAY) |
|-------|----------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|---------------------------------------------|-------------------|---------------------------------|----------------------------------------------------|
| OCT.  |                                                                |                                                     |                                                            |                                                   |                                                       |                                             |                   |                                 |                                                    |
| 16... | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                | --                              | --                                                 |
| 16... | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                | --                              | --                                                 |
| 16... | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                | --                              | --                                                 |
| 16... | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                | --                              | --                                                 |
| 17... | --                                                             | 2.5                                                 | 100000                                                     | 85000                                             | 340                                                   | --                                          | --                | --                              | --                                                 |
| 17... | --                                                             | 2.5                                                 | --                                                         | --                                                | --                                                    | --                                          | --                | --                              | --                                                 |
| 17... | --                                                             | 2.9                                                 | 55000                                                      | 85000                                             | 180                                                   | --                                          | --                | --                              | --                                                 |
| 17... | --                                                             | 1.8                                                 | --                                                         | --                                                | --                                                    | --                                          | --                | --                              | --                                                 |
| 18... | --                                                             | 1.8                                                 | 180000                                                     | 85000                                             | 140                                                   | --                                          | --                | --                              | --                                                 |
| 18... | --                                                             | 2.1                                                 | --                                                         | --                                                | --                                                    | --                                          | --                | --                              | --                                                 |
| 18... | --                                                             | 1.9                                                 | 58000                                                      | 85000                                             | 80                                                    | --                                          | --                | --                              | --                                                 |
| 18... | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                | --                              | --                                                 |
| 18... | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                | --                              | --                                                 |
| 18... | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                | --                              | --                                                 |
| DEC.  |                                                                |                                                     |                                                            |                                                   |                                                       |                                             |                   |                                 |                                                    |
| 06... | --                                                             | 2.2                                                 | 81000                                                      | 4400                                              | 170                                                   | --                                          | --                | --                              | --                                                 |
| 12... | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                | --                              | --                                                 |
| 18... | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                | --                              | --                                                 |
| JAN.  |                                                                |                                                     |                                                            |                                                   |                                                       |                                             |                   |                                 |                                                    |
| 17... | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                | --                              | --                                                 |
| 29... | 26                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | 0                 | --                              | --                                                 |
| FEB.  |                                                                |                                                     |                                                            |                                                   |                                                       |                                             |                   |                                 |                                                    |
| 26... | 24                                                             | 2.2                                                 | 22500                                                      | 3650                                              | 160                                                   | 7.2                                         | 8                 | --                              | --                                                 |
| SEP.  |                                                                |                                                     |                                                            |                                                   |                                                       |                                             |                   |                                 |                                                    |
| 09... | 24                                                             | --                                                  | --                                                         | 81700                                             | 2063                                                  | 12                                          | --                | 636                             | 18000                                              |

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

LOCATION.--Lat 30°58'40", long 88°43'35", in SW¼ sec.18, T.1 S., R.7 W., St. Stephens meridian, George County, at gaging station at bridge on highway between Merrill and Avent, 0.5 mile (0.8 km) downstream from confluence of Leaf and Chickasawhay Rivers, 0.5 mile (0.8 km) west of Merrill, and at mile 80.8 (130 km).

DRAINAGE AREA.--6,600 mi<sup>2</sup> (17,100 km<sup>2</sup>), approximately.

DRAINAGE AREA.--6,600 mi<sup>2</sup> (17,100 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--Chemical analyses: April 1970 to September 1972.

Specific conductance: April 1970 to September 1974.

Water temperature: April 1970 to June 1972, discontinued.

EXTREMES, 1973-74.--Specific conductance: Maximum, 180 micromhos Aug. 3; minimum, 40 micromhos Apr. 14-19, Sept. 9.  
EXTREMES, 1971-74.--Specific conductance: Maximum, 260 micromhos Dec. 23-24, 1971; minimum, 40 micromhos Apr. 14-19, Sept. 9, 1974.

|       | OCTOBER |     | NOVEMBER |     | DECEMBER |     | JANUARY |     | FEBRUARY |     | MARCH     |     |
|-------|---------|-----|----------|-----|----------|-----|---------|-----|----------|-----|-----------|-----|
| DAY   | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
| 1     | 95      | 80  | ---      | --- | 100      | 95  | 50      | 50  | 70       | 70  | ---       | --- |
| 2     | 100     | 85  | ---      | --- | 110      | 100 | 50      | 50  | 70       | 70  | ---       | --- |
| 3     | 100     | 80  | ---      | --- | 110      | 110 | 50      | 50  | 70       | 70  | ---       | --- |
| 4     | 85      | 80  | ---      | --- | 110      | 100 | 55      | 50  | 70       | 60  | ---       | --- |
| 5     | 100     | 85  | ---      | --- | 100      | 90  | 60      | 55  | 70       | 70  | ---       | --- |
| 6     | 110     | 100 | ---      | --- | 95       | 90  | 65      | 60  | 70       | 70  | ---       | --- |
| 7     | 115     | 105 | ---      | --- | 100      | 90  | 70      | 65  | 90       | 70  | ---       | --- |
| 8     | 110     | 105 | ---      | --- | 110      | 100 | 70      | 70  | 105      | 90  | ---       | --- |
| 9     | 110     | 110 | ---      | --- | 110      | 110 | 80      | 70  | 105      | 105 | ---       | --- |
| 10    | 115     | 110 | ---      | --- | 110      | 110 | 80      | 80  | 110      | 105 | ---       | --- |
| 11    | 110     | 110 | ---      | --- | 110      | 110 | 80      | 80  | 110      | 100 | ---       | --- |
| 12    | 115     | 110 | ---      | --- | 110      | 110 | 80      | 80  | 105      | 100 | ---       | --- |
| 13    | 110     | 105 | ---      | --- | 120      | 120 | 80      | 80  | 100      | 90  | ---       | --- |
| 14    | 105     | 100 | ---      | --- | 130      | 120 | 80      | 80  | 90       | 60  | ---       | --- |
| 15    | 105     | 100 | ---      | --- | 135      | 125 | 80      | 80  | 60       | 60  | ---       | --- |
| 16    | 115     | 105 | ---      | --- | 130      | 125 | 80      | 80  | 60       | 60  | ---       | --- |
| 17    | 125     | 110 | ---      | --- | 130      | 125 | 85      | 80  | 65       | 60  | ---       | --- |
| 18    | 120     | 100 | ---      | --- | 130      | 125 | 85      | 85  | 70       | 65  | ---       | --- |
| 19    | 115     | 100 | ---      | --- | 130      | 125 | 85      | 85  | 70       | 70  | ---       | --- |
| 20    | 120     | 100 | ---      | --- | 130      | 130 | 85      | 75  | 70       | 70  | ---       | --- |
| 21    | 120     | 100 | ---      | --- | 90       | 85  | 75      | 70  | 70       | 70  | ---       | --- |
| 22    | 120     | 110 | ---      | --- | 90       | 80  | 70      | 70  | 70       | 70  | ---       | --- |
| 23    | 120     | 110 | ---      | --- | 95       | 80  | 70      | 70  | 75       | 70  | ---       | --- |
| 24    | 120     | 120 | ---      | --- | 95       | 90  | 70      | 70  | 70       | 70  | ---       | --- |
| 25    | 120     | 120 | ---      | --- | 95       | 90  | 70      | 70  | 70       | 70  | ---       | --- |
| 26    | 125     | 120 | ---      | --- | 95       | 50  | 70      | 70  | 70       | 70  | ---       | --- |
| 27    | 125     | 120 | 105      | 100 | 50       | 50  | 70      | 70  | 70       | 70  | ---       | --- |
| 28    | 120     | 120 | 100      | 100 | 45       | 45  | 70      | 70  | 70       | 70  | 55        | 55  |
| 29    | 120     | 120 | 100      | 90  | 50       | 45  | 75      | 70  | ---      | --- | 65        | 55  |
| 30    | 120     | 100 | 95       | 90  | 50       | 50  | 70      | 70  | ---      | --- | 70        | 65  |
| 31    | ---     | --- | ---      | --- | 50       | 50  | 70      | 70  | ---      | --- | 75        | 70  |
| MONTH | 125     | 80  | ---      | --- | 135      | 45  | 85      | 50  | 110      | 60  | ---       | --- |
|       |         |     |          |     |          |     |         |     |          |     |           |     |
|       | APRIL   |     | MAY      |     | JUNE     |     | JULY    |     | AUGUST   |     | SEPTEMBER |     |
| DAY   | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
| 1     | 85      | 75  | 95       | 90  | 110      | 110 | 120     | --- | 120      | 105 | 115       | 115 |
| 2     | 90      | 85  | 100      | 95  | 110      | --- | 130     | --- | 150      | 120 | 115       | 80  |
| 3     | 90      | 80  | 95       | 95  | 100      | --- | 135     | --- | 180      | 135 | 80        | 65  |
| 4     | 80      | 70  | 100      | 95  | 100      | --- | 140     | --- | 140      | 120 | 65        | 60  |
| 5     | 85      | 70  | 100      | 95  | 105      | --- | 150     | --- | 120      | 110 | 70        | 65  |
| 6     | 80      | 75  | 110      | 100 | 115      | --- | 145     | --- | 130      | 120 | 80        | 70  |
| 7     | 80      | 80  | 110      | 110 | 120      | --- | 145     | --- | 140      | 120 | 80        | 80  |
| 8     | 80      | 80  | 110      | 110 | 100      | --- | 135     | --- | 130      | 120 | 80        | 45  |
|       |         |     |          |     |          |     |         |     |          |     |           |     |

## PASCAGOULA RIVER BASIN

02479020 PASCAGOULA RIVER NEAR BENNDAL, MISS.  
(National stream-quality accounting network)

LOCATION.--Lat 30°52'45", long 88°46'22", on line between secs. 15 and 22, T.2 S., R.8 W., St. Stephens meridian, George County, at bridge on State Highway 26, 0.4 mile (0.6 km) upstream from Bates Creek, 2.1 mile (3.4 km) east of Benndale, and 11.7 miles (18.8 km) southwest of Lucedale.

DRAINAGE AREA.--6,690 mi<sup>2</sup> (17,300 km<sup>2</sup>), approximately.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE  | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | DIS-<br>SOLVED<br>SILICA<br>(SIO <sub>2</sub> )<br>(MG/L) | TOTAL<br>IRON<br>(FE)<br>(UG/L) | DIS-<br>SOLVED<br>IRON<br>(FE)<br>(UG/L) | TOTAL<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | SUS-<br>PENDE<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG/L) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) |
|-------|------|------------------------------------------|-----------------------------------------------------------|---------------------------------|------------------------------------------|-------------------------------------------|---------------------------------------------------|----------------------------------------------------|--------------------------------------------------|-------------------------------------------------|--------------------------------------------|--------------------------------------------------------|
| OCT.  |      |                                          |                                                           |                                 |                                          |                                           |                                                   |                                                    |                                                  |                                                 |                                            |                                                        |
| 02... | 1400 | 4690                                     | 10                                                        | 1700                            | 460                                      | 100                                       | 67                                                | 33                                                 | 4.2                                              | 1.4                                             | 7.5                                        | .9                                                     |
| 30... | 1445 | 1820                                     | 12                                                        | 1300                            | 610                                      | 67                                        | 0                                                 | 67                                                 | 6.0                                              | 1.5                                             | 10                                         | 1.1                                                    |
| NOV.  |      |                                          |                                                           |                                 |                                          |                                           |                                                   |                                                    |                                                  |                                                 |                                            |                                                        |
| 27... | 1400 | 5130                                     | 11                                                        | 1900                            | 450                                      | 80                                        | 0                                                 | 80                                                 | 6.6                                              | 1.7                                             | 12                                         | 2.3                                                    |
| DEC.  |      |                                          |                                                           |                                 |                                          |                                           |                                                   |                                                    |                                                  |                                                 |                                            |                                                        |
| 06... | 1620 | 8740                                     | --                                                        | --                              | --                                       | --                                        | --                                                | --                                                 | --                                               | --                                              | --                                         | --                                                     |
| 12... | 1800 | 4500                                     | --                                                        | --                              | --                                       | --                                        | --                                                | --                                                 | --                                               | --                                              | --                                         | --                                                     |
| 19... | 1015 | 3670                                     | --                                                        | --                              | --                                       | --                                        | --                                                | --                                                 | --                                               | --                                              | --                                         | --                                                     |
| JAN.  |      |                                          |                                                           |                                 |                                          |                                           |                                                   |                                                    |                                                  |                                                 |                                            |                                                        |
| 18... | 0900 | 22900                                    | --                                                        | --                              | --                                       | --                                        | --                                                | --                                                 | --                                               | --                                              | --                                         | --                                                     |
| 30... | 1630 | 47300                                    | --                                                        | --                              | --                                       | --                                        | --                                                | --                                                 | --                                               | --                                              | --                                         | --                                                     |
| FEB.  |      |                                          |                                                           |                                 |                                          |                                           |                                                   |                                                    |                                                  |                                                 |                                            |                                                        |
| 26... | 1530 | 27100                                    | --                                                        | --                              | --                                       | --                                        | --                                                | --                                                 | --                                               | --                                              | --                                         | --                                                     |
| MAR.  |      |                                          |                                                           |                                 |                                          |                                           |                                                   |                                                    |                                                  |                                                 |                                            |                                                        |
| 14... | 1530 | 13200                                    | 9.1                                                       | --                              | --                                       | --                                        | --                                                | --                                                 | 4.5                                              | .9                                              | 6.4                                        | 1.3                                                    |
| APR.  |      |                                          |                                                           |                                 |                                          |                                           |                                                   |                                                    |                                                  |                                                 |                                            |                                                        |
| 09... | 1430 | 24300                                    | 8.0                                                       | --                              | --                                       | --                                        | --                                                | --                                                 | 5.0                                              | .8                                              | 5.6                                        | 1.4                                                    |
| MAY   |      |                                          |                                                           |                                 |                                          |                                           |                                                   |                                                    |                                                  |                                                 |                                            |                                                        |
| 28... | 1430 | 8440                                     | 7.4                                                       | --                              | --                                       | --                                        | --                                                | --                                                 | 5.3                                              | 1.1                                             | 6.2                                        | 1.2                                                    |
| JULY  |      |                                          |                                                           |                                 |                                          |                                           |                                                   |                                                    |                                                  |                                                 |                                            |                                                        |
| 12... | 1245 | 2880                                     | 10                                                        | 1900                            | 450                                      | 170                                       | 60                                                | 110                                                | 5.5                                              | 1.5                                             | 10                                         | 1.6                                                    |
| AUG.  |      |                                          |                                                           |                                 |                                          |                                           |                                                   |                                                    |                                                  |                                                 |                                            |                                                        |
| 21... | 1030 | 6000                                     | 8.6                                                       | --                              | --                                       | --                                        | --                                                | --                                                 | 5.6                                              | 1.0                                             | 8.4                                        | 1.6                                                    |
| SEP.  |      |                                          |                                                           |                                 |                                          |                                           |                                                   |                                                    |                                                  |                                                 |                                            |                                                        |
| 05... | 1000 | 14400                                    | 7.1                                                       | --                              | --                                       | --                                        | --                                                | --                                                 | 3.3                                              | 1.0                                             | 5.4                                        | 1.3                                                    |

| DATE  | BICAR-<br>BONATE<br>(HCO <sub>3</sub> )<br>(MG/L) | CAR-<br>BONATE<br>(CO <sub>3</sub> )<br>(MG/L) | ALKA-<br>LINIT<br>AS<br>CACO <sub>3</sub><br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(SO <sub>4</sub> )<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>FLUO-<br>RIDE<br>(F)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(NO <sub>3</sub> )<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) |
|-------|---------------------------------------------------|------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------|--------------------------------------------------|------------------------------------------------------|----------------------------------------------------------|-----------------------------------------|--------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------|
| OCT.  |                                                   |                                                |                                                     |                                                           |                                                   |                                                  |                                                      |                                                          |                                         |                                                        |                                           |                                                                  |
| 02... | 18                                                | 0                                              | 15                                                  | 5.0                                                       | 8.3                                               | .1                                               | --                                                   | --                                                       | --                                      | --                                                     | --                                        | 47                                                               |
| 30... | 21                                                | 0                                              | 17                                                  | 4.9                                                       | 13                                                | .1                                               | --                                                   | --                                                       | --                                      | --                                                     | --                                        | 56                                                               |
| NOV.  |                                                   |                                                |                                                     |                                                           |                                                   |                                                  |                                                      |                                                          |                                         |                                                        |                                           |                                                                  |
| 27... | 17                                                | 0                                              | 14                                                  | 6.6                                                       | 19                                                | .3                                               | .00                                                  | .18                                                      | .18                                     | .80                                                    | .06                                       | 82                                                               |
| DEC.  |                                                   |                                                |                                                     |                                                           |                                                   |                                                  |                                                      |                                                          |                                         |                                                        |                                           |                                                                  |
| 06... | --                                                | --                                             | --                                                  | --                                                        | --                                                | --                                               | --                                                   | --                                                       | --                                      | --                                                     | --                                        | --                                                               |
| 12... | --                                                | --                                             | --                                                  | --                                                        | --                                                | --                                               | --                                                   | --                                                       | --                                      | --                                                     | --                                        | --                                                               |
| 19... | --                                                | --                                             | --                                                  | --                                                        | --                                                | --                                               | --                                                   | --                                                       | --                                      | --                                                     | --                                        | --                                                               |
| JAN.  |                                                   |                                                |                                                     |                                                           |                                                   |                                                  |                                                      |                                                          |                                         |                                                        |                                           |                                                                  |
| 18... | --                                                | --                                             | --                                                  | --                                                        | --                                                | --                                               | --                                                   | --                                                       | --                                      | --                                                     | --                                        | --                                                               |
| 30... | --                                                | --                                             | --                                                  | --                                                        | 6.9                                               | --                                               | .01                                                  | .44                                                      | .45                                     | 2.0                                                    | .02                                       | 63                                                               |
| FEB.  |                                                   |                                                |                                                     |                                                           |                                                   |                                                  |                                                      |                                                          |                                         |                                                        |                                           |                                                                  |
| 26... | --                                                | --                                             | --                                                  | --                                                        | 8.2                                               | --                                               | .11                                                  | .35                                                      | .46                                     | 2.0                                                    | .06                                       | 57                                                               |
| MAR.  |                                                   |                                                |                                                     |                                                           |                                                   |                                                  |                                                      |                                                          |                                         |                                                        |                                           |                                                                  |
| 14... | 13                                                | 0                                              | 11                                                  | 3.9                                                       | 10                                                | .2                                               | --                                                   | --                                                       | --                                      | --                                                     | --                                        | 55                                                               |
| APR.  |                                                   |                                                |                                                     |                                                           |                                                   |                                                  |                                                      |                                                          |                                         |                                                        |                                           |                                                                  |
| 09... | 15                                                | 0                                              | 12                                                  | 4.7                                                       | 8.2                                               | .2                                               | .12                                                  | .32                                                      | .44                                     | 1.9                                                    | .08                                       | 50                                                               |
| MAY   |                                                   |                                                |                                                     |                                                           |                                                   |                                                  |                                                      |                                                          |                                         |                                                        |                                           |                                                                  |
| 28... | 13                                                | 0                                              | 11                                                  | 3.3                                                       | 10                                                | .2                                               | .17                                                  | .81                                                      | .98                                     | 4.3                                                    | .26                                       | 56                                                               |
| JULY  |                                                   |                                                |                                                     |                                                           |                                                   |                                                  |                                                      |                                                          |                                         |                                                        |                                           |                                                                  |
| 12... | 24                                                | 0                                              | 20                                                  | 5.4                                                       | 13                                                | .1                                               | .00                                                  | .51                                                      | .51                                     | 2.3                                                    | .08                                       | 76                                                               |
| AUG.  |                                                   |                                                |                                                     |                                                           |                                                   |                                                  |                                                      |                                                          |                                         |                                                        |                                           |                                                                  |
| 21... | 14                                                | 0                                              | 11                                                  | 5.8                                                       | 18                                                | .1                                               | .29                                                  | .47                                                      | .76                                     | 3.4                                                    | .10                                       | 86                                                               |
| SEP.  |                                                   |                                                |                                                     |                                                           |                                                   |                                                  |                                                      |                                                          |                                         |                                                        |                                           |                                                                  |
| 05... | 7                                                 | 0                                              | 6                                                   | 5.4                                                       | 9.7                                               | .1                                               | .13                                                  | .56                                                      | .69                                     | 3.1                                                    | .08                                       | 60                                                               |



02479020 PASCAGOULA RIVER NEAR BENNDALE, MISS.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE  | DIS-<br>SOLVED<br>SOLIDS<br>(SUM OF<br>CONSTITUENTS)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | TUR-<br>BID-<br>ITY<br>(JTU) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|----------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|-------------------------------------|---------------------------------------------------|-------------------|-----------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------|------------------------------------|
| OCT.  |                                                                |                                                    |                                                  |                                     |                                                   |                   |                                         |                                                            |               |                             |                              |                                    |
| 02... | 47                                                             | .06                                                | 595                                              | 16                                  | 1                                                 | 48                | .8                                      | 70                                                         | 6.7           | 26.0                        | 30                           | 6.4                                |
| 30... | 60                                                             | .08                                                | 275                                              | 21                                  | 4                                                 | 49                | .9                                      | 90                                                         | 6.8           | 18.5                        | 5                            | 7.7                                |
| NOV.  |                                                                |                                                    |                                                  |                                     |                                                   |                   |                                         |                                                            |               |                             |                              |                                    |
| 27... | 68                                                             | .11                                                | 1140                                             | 23                                  | 10                                                | 50                | 1.1                                     | 110                                                        | 6.7           | 21.0                        | 30                           | 6.9                                |
| DEC.  |                                                                |                                                    |                                                  |                                     |                                                   |                   |                                         |                                                            |               |                             |                              |                                    |
| 06... | --                                                             | --                                                 | --                                               | --                                  | --                                                | --                | --                                      | 75                                                         | 5.6           | 14.0                        | --                           | 8.3                                |
| 12... | --                                                             | --                                                 | --                                               | --                                  | --                                                | --                | --                                      | 95                                                         | 7.2           | 10.0                        | --                           | 9.5                                |
| 19... | --                                                             | --                                                 | --                                               | --                                  | --                                                | --                | --                                      | 110                                                        | 6.5           | 10.0                        | --                           | 10.4                               |
| JAN.  |                                                                |                                                    |                                                  |                                     |                                                   |                   |                                         |                                                            |               |                             |                              |                                    |
| 18... | --                                                             | --                                                 | --                                               | --                                  | --                                                | --                | --                                      | 76                                                         | 6.5           | 15.4                        | --                           | 9.7                                |
| 30... | --                                                             | .09                                                | 8050                                             | --                                  | --                                                | --                | --                                      | 70                                                         | --            | 18.0                        | --                           | 8.3                                |
| FEB.  |                                                                |                                                    |                                                  |                                     |                                                   |                   |                                         |                                                            |               |                             |                              |                                    |
| 26... | --                                                             | .08                                                | 4170                                             | --                                  | --                                                | --                | --                                      | 45                                                         | 5.7           | 12.5                        | --                           | 9.1                                |
| MAR.  |                                                                |                                                    |                                                  |                                     |                                                   |                   |                                         |                                                            |               |                             |                              |                                    |
| 14... | 43                                                             | .07                                                | 1960                                             | 15                                  | 4                                                 | 46                | .7                                      | 66                                                         | 6.9           | 19.0                        | 30                           | 7.3                                |
| APR.  |                                                                |                                                    |                                                  |                                     |                                                   |                   |                                         |                                                            |               |                             |                              |                                    |
| 09... | 41                                                             | .07                                                | 3280                                             | 16                                  | 3                                                 | 41                | .6                                      | 63                                                         | 6.7           | 18.0                        | 30                           | 7.0                                |
| MAY   |                                                                |                                                    |                                                  |                                     |                                                   |                   |                                         |                                                            |               |                             |                              |                                    |
| 28... | 41                                                             | .08                                                | 1280                                             | 18                                  | 7                                                 | 41                | .6                                      | 70                                                         | 5.9           | 25.0                        | 30                           | 6.6                                |
| JULY  |                                                                |                                                    |                                                  |                                     |                                                   |                   |                                         |                                                            |               |                             |                              |                                    |
| 12... | 60                                                             | .10                                                | 591                                              | 20                                  | 0                                                 | 50                | 1.0                                     | 100                                                        | 6.7           | 29.0                        | 10                           | 7.4                                |
| AUG.  |                                                                |                                                    |                                                  |                                     |                                                   |                   |                                         |                                                            |               |                             |                              |                                    |
| 21... | 56                                                             | .12                                                | 1390                                             | 18                                  | 7                                                 | 48                | .9                                      | 78                                                         | 6.1           | 28.0                        | 20                           | 6.3                                |
| SEP.  |                                                                |                                                    |                                                  |                                     |                                                   |                   |                                         |                                                            |               |                             |                              |                                    |
| 05... | 37                                                             | .08                                                | 2330                                             | 12                                  | 7                                                 | 46                | .7                                      | 65                                                         | 5.4           | 22.5                        | 30                           | 6.7                                |

| DATE  | CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(HIGH<br>LEVEL)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) | CARBON<br>DIOXIDE<br>(CO2)<br>(MG/L) | TOTAL<br>PHYTO-<br>PLANK-<br>TON<br>(CELLS<br>PER<br>ML) | IMME-<br>DIATE<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | PHENOLS<br>(UG/L) | TOTAL<br>ARSENIC<br>(AS)<br>(UG/L) | SUS-<br>PENDE<br>D ARSENIC<br>(AS)<br>(UG/L) | DIS-<br>SOLVED<br>ARSENIC<br>(AS)<br>(UG/L) |
|-------|----------------------------------------------------------------|-----------------------------------------------------|--------------------------------------|----------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|---------------------------------------------|-------------------|------------------------------------|----------------------------------------------|---------------------------------------------|
| OCT.  |                                                                |                                                     |                                      |                                                          |                                                            |                                                   |                                                       |                                             |                   |                                    |                                              |                                             |
| 02... | --                                                             | --                                                  | 5.7                                  | 17000                                                    | --                                                         | --                                                | --                                                    | --                                          | --                | 5                                  | 0                                            | 5                                           |
| 30... | --                                                             | --                                                  | 5.3                                  | 1700                                                     | 4700                                                       | 20                                                | 215                                                   | --                                          | --                | 0                                  | 0                                            | 0                                           |
| NOV.  |                                                                |                                                     |                                      |                                                          |                                                            |                                                   |                                                       |                                             |                   |                                    |                                              |                                             |
| 27... | --                                                             | --                                                  | 5.4                                  | --                                                       | 4700                                                       | 900                                               | 20                                                    | --                                          | --                | 4                                  | 0                                            | 4                                           |
| DEC.  |                                                                |                                                     |                                      |                                                          |                                                            |                                                   |                                                       |                                             |                   |                                    |                                              |                                             |
| 06... | --                                                             | 2.0                                                 | --                                   | --                                                       | 81000                                                      | 1980                                              | 175                                                   | --                                          | --                | --                                 | --                                           | --                                          |
| 12... | --                                                             | --                                                  | --                                   | --                                                       | --                                                         | --                                                | --                                                    | --                                          | --                | --                                 | --                                           | --                                          |
| 19... | --                                                             | --                                                  | --                                   | --                                                       | --                                                         | --                                                | --                                                    | --                                          | --                | --                                 | --                                           | --                                          |
| JAN.  |                                                                |                                                     |                                      |                                                          |                                                            |                                                   |                                                       |                                             |                   |                                    |                                              |                                             |
| 18... | --                                                             | --                                                  | --                                   | --                                                       | --                                                         | --                                                | --                                                    | --                                          | --                | --                                 | --                                           | --                                          |
| 30... | 16                                                             | --                                                  | --                                   | --                                                       | --                                                         | --                                                | --                                                    | --                                          | 2                 | --                                 | --                                           | --                                          |
| FEB.  |                                                                |                                                     |                                      |                                                          |                                                            |                                                   |                                                       |                                             |                   |                                    |                                              |                                             |
| 28... | 30                                                             | .9                                                  | --                                   | --                                                       | 18500                                                      | 2250                                              | 18500                                                 | 7.4                                         | 1                 | --                                 | --                                           | --                                          |
| MAR.  |                                                                |                                                     |                                      |                                                          |                                                            |                                                   |                                                       |                                             |                   |                                    |                                              |                                             |
| 14... | --                                                             | --                                                  | 2.6                                  | --                                                       | --                                                         | --                                                | --                                                    | --                                          | --                | --                                 | --                                           | --                                          |
| APR.  |                                                                |                                                     |                                      |                                                          |                                                            |                                                   |                                                       |                                             |                   |                                    |                                              |                                             |
| 09... | --                                                             | --                                                  | 4.8                                  | --                                                       | --                                                         | --                                                | --                                                    | 12                                          | --                | --                                 | --                                           | --                                          |
| MAY   |                                                                |                                                     |                                      |                                                          |                                                            |                                                   |                                                       |                                             |                   |                                    |                                              |                                             |
| 28... | --                                                             | --                                                  | 26                                   | --                                                       | --                                                         | --                                                | --                                                    | --                                          | --                | --                                 | --                                           | --                                          |
| JULY  |                                                                |                                                     |                                      |                                                          |                                                            |                                                   |                                                       |                                             |                   |                                    |                                              |                                             |
| 12... | --                                                             | --                                                  | 7.7                                  | 19000                                                    | --                                                         | --                                                | --                                                    | 10                                          | --                | 1                                  | 0                                            | 1                                           |
| AUG.  |                                                                |                                                     |                                      |                                                          |                                                            |                                                   |                                                       |                                             |                   |                                    |                                              |                                             |
| 21... | --                                                             | --                                                  | 18                                   | 4900                                                     | --                                                         | --                                                | --                                                    | --                                          | --                | --                                 | --                                           | --                                          |
| SEP.  |                                                                |                                                     |                                      |                                                          |                                                            |                                                   |                                                       |                                             |                   |                                    |                                              |                                             |
| 05... | --                                                             | --                                                  | 45                                   | 700                                                      | --                                                         | --                                                | --                                                    | --                                          | --                | --                                 | --                                           | --                                          |

## PASCAGOULA RIVER BASIN

02479020 PASCAGOULA RIVER NEAR BENNDALE, MISS.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE  | TOTAL<br>CAD-<br>MIUM<br>(CD)<br>(UG/L) | SUS-<br>PENDE-<br>D CAD-<br>MIUM<br>(CD)<br>(UG/L) | DIS-<br>SOLVED<br>CAD-<br>MIUM<br>(CD)<br>(UG/L) | TOTAL<br>CHRO-<br>MIUM<br>(CR)<br>(UG/L) | SUS-<br>PENDE-<br>D CHRO-<br>MIUM<br>(CR)<br>(UG/L) | DIS-<br>SOLVED<br>CHRO-<br>MIUM<br>(CR)<br>(UG/L) | TOTAL<br>COBALT<br>(CO)<br>(UG/L) | SUS-<br>PENDE-<br>D COBALT<br>(CO)<br>(UG/L) | DIS-<br>SOLVED<br>COBALT<br>(CO)<br>(UG/L) | TOTAL<br>COPPER<br>(CU)<br>(UG/L) | SUS-<br>PENDE-<br>D COPPER<br>(CU)<br>(UG/L) | DIS-<br>SOLVED<br>COPPER<br>(CU)<br>(UG/L) |
|-------|-----------------------------------------|----------------------------------------------------|--------------------------------------------------|------------------------------------------|-----------------------------------------------------|---------------------------------------------------|-----------------------------------|----------------------------------------------|--------------------------------------------|-----------------------------------|----------------------------------------------|--------------------------------------------|
| OCT.  |                                         |                                                    |                                                  |                                          |                                                     |                                                   |                                   |                                              |                                            |                                   |                                              |                                            |
| 02... | 0                                       | 0                                                  | 0                                                | 0                                        | 0                                                   | 0                                                 | 1                                 | 0                                            | 1                                          | 4                                 | 0                                            | 7                                          |
| 30... | 0                                       | 0                                                  | 0                                                | 0                                        | 0                                                   | 0                                                 | 2                                 | 2                                            | 0                                          | 4                                 | 3                                            | 1                                          |
| NOV.  |                                         |                                                    |                                                  |                                          |                                                     |                                                   |                                   |                                              |                                            |                                   |                                              |                                            |
| 27... | 1                                       | 0                                                  | 1                                                | 56                                       | 51                                                  | 5                                                 | 3                                 | 0                                            | 3                                          | 3                                 | 0                                            | 3                                          |
| DEC.  |                                         |                                                    |                                                  |                                          |                                                     |                                                   |                                   |                                              |                                            |                                   |                                              |                                            |
| 06... | --                                      | --                                                 | --                                               | --                                       | --                                                  | --                                                | --                                | --                                           | --                                         | --                                | --                                           | --                                         |
| 12... | --                                      | --                                                 | --                                               | --                                       | --                                                  | --                                                | --                                | --                                           | --                                         | --                                | --                                           | --                                         |
| 19... | --                                      | --                                                 | --                                               | --                                       | --                                                  | --                                                | --                                | --                                           | --                                         | --                                | --                                           | --                                         |
| JAN.  |                                         |                                                    |                                                  |                                          |                                                     |                                                   |                                   |                                              |                                            |                                   |                                              |                                            |
| 18... | --                                      | --                                                 | --                                               | --                                       | --                                                  | --                                                | --                                | --                                           | --                                         | --                                | --                                           | --                                         |
| 30... | --                                      | --                                                 | --                                               | --                                       | --                                                  | --                                                | --                                | --                                           | --                                         | --                                | --                                           | --                                         |
| FEB.  |                                         |                                                    |                                                  |                                          |                                                     |                                                   |                                   |                                              |                                            |                                   |                                              |                                            |
| 26... | --                                      | --                                                 | --                                               | --                                       | --                                                  | --                                                | --                                | --                                           | --                                         | --                                | --                                           | --                                         |
| MAR.  |                                         |                                                    |                                                  |                                          |                                                     |                                                   |                                   |                                              |                                            |                                   |                                              |                                            |
| 14... | --                                      | --                                                 | --                                               | --                                       | --                                                  | --                                                | --                                | --                                           | --                                         | --                                | --                                           | --                                         |
| APR.  |                                         |                                                    |                                                  |                                          |                                                     |                                                   |                                   |                                              |                                            |                                   |                                              |                                            |
| 09... | --                                      | --                                                 | --                                               | --                                       | --                                                  | --                                                | --                                | --                                           | --                                         | --                                | --                                           | --                                         |
| MAY   |                                         |                                                    |                                                  |                                          |                                                     |                                                   |                                   |                                              |                                            |                                   |                                              |                                            |
| 28... | --                                      | --                                                 | --                                               | --                                       | --                                                  | --                                                | --                                | --                                           | --                                         | --                                | --                                           | --                                         |
| JULY  |                                         |                                                    |                                                  |                                          |                                                     |                                                   |                                   |                                              |                                            |                                   |                                              |                                            |
| 12... | 9                                       | 4                                                  | 5                                                | 15                                       | 14                                                  | 1                                                 | 3                                 | 2                                            | 1                                          | 2                                 | 0                                            | 4                                          |
| AUG.  |                                         |                                                    |                                                  |                                          |                                                     |                                                   |                                   |                                              |                                            |                                   |                                              |                                            |
| 21... | --                                      | --                                                 | --                                               | --                                       | --                                                  | --                                                | --                                | --                                           | --                                         | --                                | --                                           | --                                         |
| SEP.  |                                         |                                                    |                                                  |                                          |                                                     |                                                   |                                   |                                              |                                            |                                   |                                              |                                            |
| 05... | --                                      | --                                                 | --                                               | --                                       | --                                                  | --                                                | --                                | --                                           | --                                         | --                                | --                                           | --                                         |

| DATE  | TOTAL<br>LEAD<br>(PB)<br>(UG/L) | SUS-<br>PENDE-<br>D LEAD<br>(PB)<br>(UG/L) | DIS-<br>SOLVED<br>LEAD<br>(PB)<br>(UG/L) | TOTAL<br>MERCURY<br>(HG)<br>(UG/L) | SUS-<br>PENDE-<br>D MERCURY<br>(HG)<br>(UG/L) | DIS-<br>SOLVED<br>MERCURY<br>(HG)<br>(UG/L) | TOTAL<br>SELE-<br>NIUM<br>(SE)<br>(UG/L) |
|-------|---------------------------------|--------------------------------------------|------------------------------------------|------------------------------------|-----------------------------------------------|---------------------------------------------|------------------------------------------|
| OCT.  |                                 |                                            |                                          |                                    |                                               |                                             |                                          |
| 02... | 4                               | 0                                          | 4                                        | --                                 | --                                            | .1                                          | 8                                        |
| 30... | 4                               | 0                                          | 4                                        | --                                 | --                                            | .0                                          | 5                                        |
| NOV.  |                                 |                                            |                                          |                                    |                                               |                                             |                                          |
| 27... | 10                              | 0                                          | 10                                       | .0                                 | .0                                            | .0                                          | 10                                       |
| MAR.  |                                 |                                            |                                          |                                    |                                               |                                             |                                          |
| 14... | --                              | --                                         | --                                       | --                                 | --                                            | --                                          | --                                       |
| JULY  |                                 |                                            |                                          |                                    |                                               |                                             |                                          |
| 12... | 62                              | 38                                         | 24                                       | .2                                 | .0                                            | .2                                          | 3                                        |
| AUG.  |                                 |                                            |                                          |                                    |                                               |                                             |                                          |
| 21... | --                              | --                                         | --                                       | --                                 | --                                            | --                                          | --                                       |
| SEP.  |                                 |                                            |                                          |                                    |                                               |                                             |                                          |
| 05... | --                              | --                                         | --                                       | --                                 | --                                            | --                                          | --                                       |

| DATE  | SUS-<br>PENDE-<br>D SELE-<br>NIUM<br>(SE)<br>(UG/L) | DIS-<br>SOLVED<br>SELE-<br>NIUM<br>(SE)<br>(UG/L) | TOTAL<br>ZINC<br>(ZN)<br>(UG/L) | SUS-<br>PENDE-<br>D ZINC<br>(ZN)<br>(UG/L) | DIS-<br>SOLVED<br>ZINC<br>(ZN)<br>(UG/L) | SUS-<br>PENDE-<br>D SEDI-<br>MENT<br>(MG/L) | SUS-<br>PENDE-<br>D SEDI-<br>MENT<br>DIS-<br>CHARGE<br>(T/DAY) |
|-------|-----------------------------------------------------|---------------------------------------------------|---------------------------------|--------------------------------------------|------------------------------------------|---------------------------------------------|----------------------------------------------------------------|
| OCT.  |                                                     |                                                   |                                 |                                            |                                          |                                             |                                                                |
| 02... | 1                                                   | 7                                                 | 30                              | 0                                          | 50                                       | --                                          | --                                                             |
| 30... | 0                                                   | 5                                                 | 70                              | 30                                         | 40                                       | --                                          | --                                                             |
| NOV.  |                                                     |                                                   |                                 |                                            |                                          |                                             |                                                                |
| 27... | 8                                                   | 2                                                 | 0                               | 0                                          | 0                                        | 38                                          | 526                                                            |
| MAR.  |                                                     |                                                   |                                 |                                            |                                          |                                             |                                                                |
| 14... | --                                                  | --                                                | --                              | --                                         | --                                       | 99                                          | 3530                                                           |
| JULY  |                                                     |                                                   |                                 |                                            |                                          |                                             |                                                                |
| 12... | 0                                                   | 3                                                 | 290                             | 260                                        | 30                                       | 44                                          | 342                                                            |
| AUG.  |                                                     |                                                   |                                 |                                            |                                          |                                             |                                                                |
| 21... | --                                                  | --                                                | --                              | --                                         | --                                       | 37                                          | 599                                                            |
| SEP.  |                                                     |                                                   |                                 |                                            |                                          |                                             |                                                                |
| 05... | --                                                  | --                                                | --                              | --                                         | --                                       | 46                                          | 1790                                                           |

## PASCAGOULA RIVER BASIN

183

02479155 CYPRESS CREEK NEAR JANICE, MISS.  
(Hydrologic bench-mark and pesticide station)

LOCATION.--Lat 31°01'30", long 89°01'00", in NW¼NW¼ sec.29, T.1 N., R.10 W., St. Stephens meridian, Perry County,  
at gaging station at bridge on State Highway 29, 1.2 mile (1.9 km) east of Janice, and 5.5 miles (8.8 km) upstream  
from mouth.

DRAINAGE AREA.--52.2 mi<sup>2</sup> (135 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: December 1966 to September 1974.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

|       |      | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS)     | DIS-<br>SOLVED<br>SILICA<br>(SiO2)<br>(MG/L)      | DIS-<br>SOLVED<br>IRON<br>(FE)<br>(UG/L)         | DIS-<br>SOLVED<br>MAN-<br>GANESE<br>(MN)<br>(UG/L)         | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L)                 | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L)                     | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | BICAR-<br>BONATE<br>(HCO3)<br>(MG/L)             | CAR-<br>BONATE<br>(CO3)<br>(MG/L)                          | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L)          |                                                       |
|-------|------|---------------------------------------------------|---------------------------------------------------|--------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------|------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|
| DATE  | TIME |                                                   |                                                   |                                                  |                                                            |                                                                  |                                               |                                                                |                                                        |                                                  |                                                            |                                                   |                                                       |
| OCT.  |      |                                                   |                                                   |                                                  |                                                            |                                                                  |                                               |                                                                |                                                        |                                                  |                                                            |                                                   |                                                       |
| 02... | 1700 | 110                                               | --                                                | --                                               | --                                                         | --                                                               | --                                            | --                                                             | --                                                     | --                                               | --                                                         | --                                                |                                                       |
| 30... | 1330 | 17                                                | 12                                                | 2000                                             | 50                                                         | .8                                                               | .5                                            | 1.8                                                            | .3                                                     | 4                                                | 0                                                          | 3                                                 |                                                       |
| DEC.  |      |                                                   |                                                   |                                                  |                                                            |                                                                  |                                               |                                                                |                                                        |                                                  |                                                            |                                                   |                                                       |
| 06... | 1500 | 78                                                | --                                                | --                                               | --                                                         | --                                                               | --                                            | --                                                             | --                                                     | --                                               | --                                                         | --                                                |                                                       |
| MAR.  |      |                                                   |                                                   |                                                  |                                                            |                                                                  |                                               |                                                                |                                                        |                                                  |                                                            |                                                   |                                                       |
| 14... | 1330 | 90                                                | 9.1                                               | --                                               | --                                                         | 1.5                                                              | .5                                            | 2.7                                                            | .6                                                     | 3                                                | 0                                                          | 2                                                 |                                                       |
| MAY   |      |                                                   |                                                   |                                                  |                                                            |                                                                  |                                               |                                                                |                                                        |                                                  |                                                            |                                                   |                                                       |
| 28... | 1330 | 30                                                | 10                                                | --                                               | --                                                         | 2.0                                                              | .6                                            | 2.0                                                            | .5                                                     | 3                                                | 0                                                          | 2                                                 |                                                       |
| JULY  |      |                                                   |                                                   |                                                  |                                                            |                                                                  |                                               |                                                                |                                                        |                                                  |                                                            |                                                   |                                                       |
| 12... | 1030 | 14                                                | --                                                | --                                               | --                                                         | --                                                               | --                                            | --                                                             | --                                                     | --                                               | --                                                         | --                                                |                                                       |
| AUG.  |      |                                                   |                                                   |                                                  |                                                            |                                                                  |                                               |                                                                |                                                        |                                                  |                                                            |                                                   |                                                       |
| 21... | 1330 | 16                                                | 10                                                | --                                               | --                                                         | 2.5                                                              | .5                                            | 2.0                                                            | .4                                                     | 13                                               | 0                                                          | 11                                                |                                                       |
| SEP.  |      |                                                   |                                                   |                                                  |                                                            |                                                                  |                                               |                                                                |                                                        |                                                  |                                                            |                                                   |                                                       |
| 05... | 0900 | 44                                                | --                                                | --                                               | --                                                         | --                                                               | --                                            | --                                                             | --                                                     | --                                               | --                                                         | --                                                |                                                       |
|       |      | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L)      | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>FLUO-<br>RIDE<br>(F)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L)       | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | TOTAL<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L)  | DIS-<br>SOLVED<br>SOLIDS<br>(SUM OF<br>CONSTITUENTS)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT)     | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L)       | HARD-<br>NESS<br>(CA+MG)<br>(MG/L)                |                                                       |
| DATE  |      |                                                   |                                                   |                                                  |                                                            |                                                                  |                                               |                                                                |                                                        |                                                  |                                                            |                                                   |                                                       |
| OCT.  |      |                                                   |                                                   |                                                  |                                                            |                                                                  |                                               |                                                                |                                                        |                                                  |                                                            |                                                   |                                                       |
| 02... | --   | --                                                | --                                                | --                                               | --                                                         | --                                                               | --                                            | --                                                             | --                                                     | --                                               | --                                                         | --                                                |                                                       |
| 30... | 2.1  | 2.1                                               | .1                                                | .01                                              | .00                                                        | 33                                                               | 29                                            | 24                                                             | .04                                                    | 1.51                                             | 4                                                          | 4                                                 |                                                       |
| DEC.  |      |                                                   |                                                   |                                                  |                                                            |                                                                  |                                               |                                                                |                                                        |                                                  |                                                            |                                                   |                                                       |
| 06... | --   | --                                                | --                                                | --                                               | --                                                         | --                                                               | --                                            | --                                                             | --                                                     | --                                               | --                                                         | --                                                |                                                       |
| MAR.  |      |                                                   |                                                   |                                                  |                                                            |                                                                  |                                               |                                                                |                                                        |                                                  |                                                            |                                                   |                                                       |
| 14... | 2.2  | 3.5                                               | .1                                                | .05                                              | .03                                                        | 38                                                               | --                                            | 22                                                             | .05                                                    | 9.23                                             | --                                                         | 6                                                 |                                                       |
| MAY   |      |                                                   |                                                   |                                                  |                                                            |                                                                  |                                               |                                                                |                                                        |                                                  |                                                            |                                                   |                                                       |
| 28... | 1.2  | 3.5                                               | .1                                                | .04                                              | .01                                                        | 28                                                               | --                                            | 21                                                             | .04                                                    | 2.27                                             | --                                                         | 7                                                 |                                                       |
| JULY  |      |                                                   |                                                   |                                                  |                                                            |                                                                  |                                               |                                                                |                                                        |                                                  |                                                            |                                                   |                                                       |
| 12... | --   | --                                                | --                                                | --                                               | --                                                         | --                                                               | --                                            | --                                                             | --                                                     | --                                               | --                                                         | --                                                |                                                       |
| AUG.  |      |                                                   |                                                   |                                                  |                                                            |                                                                  |                                               |                                                                |                                                        |                                                  |                                                            |                                                   |                                                       |
| 21... | 3.0  | 3.1                                               | .0                                                | .03                                              | .02                                                        | 29                                                               | --                                            | 28                                                             | .04                                                    | 1.25                                             | --                                                         | 8                                                 |                                                       |
| SEP.  |      |                                                   |                                                   |                                                  |                                                            |                                                                  |                                               |                                                                |                                                        |                                                  |                                                            |                                                   |                                                       |
| 05... | --   | --                                                | --                                                | --                                               | --                                                         | --                                                               | --                                            | --                                                             | --                                                     | --                                               | --                                                         | --                                                |                                                       |
|       |      | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L) | PERCENT<br>SODIUM                                 | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS)                                                    | TEMPER-<br>ATURE<br>(DEG C)                   | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L)                             | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L)    | CARBON<br>DIOXIDE<br>(CO2)<br>(MG/L)             | IMME-<br>DIATE<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) |
| DATE  |      |                                                   |                                                   |                                                  |                                                            |                                                                  |                                               |                                                                |                                                        |                                                  |                                                            |                                                   |                                                       |
| OCT.  |      |                                                   |                                                   |                                                  |                                                            |                                                                  |                                               |                                                                |                                                        |                                                  |                                                            |                                                   |                                                       |
| 02... | --   | --                                                | --                                                | 20                                               | 4.9                                                        | 23.0                                                             | 7.2                                           | --                                                             | --                                                     | --                                               | --                                                         | --                                                | --                                                    |
| 30... | 1    | 47                                                | .4                                                | 18                                               | 6.0                                                        | 14.8                                                             | 10.1                                          | --                                                             | 6.4                                                    | 4500                                             | 60                                                         | 165                                               | 165                                                   |
| DEC.  |      |                                                   |                                                   |                                                  |                                                            |                                                                  |                                               |                                                                |                                                        |                                                  |                                                            |                                                   |                                                       |
| 06... | --   | --                                                | --                                                | 29                                               | 5.1                                                        | 12.5                                                             | 10.3                                          | .8                                                             | --                                                     | 20000                                            | 20                                                         | 15                                                | 15                                                    |
| MAR.  |      |                                                   |                                                   |                                                  |                                                            |                                                                  |                                               |                                                                |                                                        |                                                  |                                                            |                                                   |                                                       |
| 14... | 3    | 47                                                | .5                                                | 24                                               | 5.3                                                        | 15.0                                                             | 9.2                                           | --                                                             | 24                                                     | --                                               | --                                                         | --                                                | --                                                    |
| MAY   |      |                                                   |                                                   |                                                  |                                                            |                                                                  |                                               |                                                                |                                                        |                                                  |                                                            |                                                   |                                                       |
| 28... | 5    | 35                                                | .3                                                | 20                                               | 4.7                                                        | 23.0                                                             | 8.1                                           | --                                                             | 96                                                     | --                                               | --                                                         | --                                                | --                                                    |
| JULY  |      |                                                   |                                                   |                                                  |                                                            |                                                                  |                                               |                                                                |                                                        |                                                  |                                                            |                                                   |                                                       |
| 12... | --   | --                                                | --                                                | 21                                               | 6.4                                                        | 25.0                                                             | 8.5                                           | --                                                             | --                                                     | --                                               | --                                                         | --                                                | --                                                    |
| AUG.  |      |                                                   |                                                   |                                                  |                                                            |                                                                  |                                               |                                                                |                                                        |                                                  |                                                            |                                                   |                                                       |
| 21... | 0    | 33                                                | .3                                                | 22                                               | 5.4                                                        | 27.5                                                             | 7.8                                           | --                                                             | 83                                                     | --                                               | --                                                         | --                                                | --                                                    |
| SEP.  |      |                                                   |                                                   |                                                  |                                                            |                                                                  |                                               |                                                                |                                                        |                                                  |                                                            |                                                   |                                                       |
| 05... | --   | --                                                | --                                                | 32                                               | 4.4                                                        | 19.0                                                             | 8.4                                           | --                                                             | --                                                     | --                                               | --                                                         | --                                                | --                                                    |

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

03592800 YELLOW CREEK NEAR DOSKIE, MISS.

LOCATION.--Lat 34°54'02", long 88°17'35", in sec.18, T.2 S., R.10 E., Chickasaw meridian, Tishomingo County, at gaging station on county road at Moser Bridge, 0.4 mile (0.6 km) south of Doskie, Miss.

DRAINAGE AREA.--143 mi<sup>2</sup> (370 km<sup>2</sup>).

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE  | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | DIS-<br>SOLVED<br>SILICA<br>(SiO <sub>2</sub> )<br>(MG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG) | BICAR-<br>BONATE<br>(HCO <sub>3</sub> )<br>(MG/L) | CAR-<br>BONATE<br>(CO <sub>3</sub> )<br>(MG/L) | ALKA-<br>LINITY<br>AS<br>CACO <sub>3</sub><br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(SO <sub>4</sub> )<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>FLUO-<br>RIDE<br>(F)<br>(MG/L) | TOTAL<br>NITRATE<br>(N)<br>(MG/L) |
|-------|------|------------------------------------------|-----------------------------------------------------------|--------------------------------------------------|-----------------------------------------------|---------------------------------------------------|------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------|--------------------------------------------------|-----------------------------------|
| DEC.  |      |                                          |                                                           |                                                  |                                               |                                                   |                                                |                                                      |                                                           |                                                   |                                                  |                                   |
| 20... | 1230 | 647                                      | 7.1                                                       | --                                               | --                                            | 6                                                 | 0                                              | 5                                                    | 5.7                                                       | 1.9                                               | .1                                               | --                                |
| MAR.  |      |                                          |                                                           |                                                  |                                               |                                                   |                                                |                                                      |                                                           |                                                   |                                                  |                                   |
| 25... | 1400 | 274                                      | --                                                        | --                                               | --                                            | --                                                | --                                             | --                                                   | --                                                        | --                                                | --                                               | --                                |
| APR.  |      |                                          |                                                           |                                                  |                                               |                                                   |                                                |                                                      |                                                           |                                                   |                                                  |                                   |
| 03... | 0930 | 166                                      | 8.0                                                       | --                                               | --                                            | --                                                | --                                             | --                                                   | --                                                        | --                                                | --                                               | --                                |
| 22... | 1330 | 205                                      | --                                                        | 1.4                                              | .7                                            | 9                                                 | --                                             | 7                                                    | 1.1                                                       | 1.8                                               | --                                               | .05                               |
| MAY   |      |                                          |                                                           |                                                  |                                               |                                                   |                                                |                                                      |                                                           |                                                   |                                                  |                                   |
| 06... | 1400 | 170                                      | --                                                        | --                                               | --                                            | --                                                | --                                             | --                                                   | --                                                        | --                                                | --                                               | --                                |
| 21... | 1500 | 91                                       | --                                                        | 3.8                                              | .8                                            | 12                                                | --                                             | 10                                                   | --                                                        | --                                                | --                                               | .15                               |
| JUNE  |      |                                          |                                                           |                                                  |                                               |                                                   |                                                |                                                      |                                                           |                                                   |                                                  |                                   |
| 03... | 1330 | 1000                                     | --                                                        | 4.1                                              | .6                                            | 6                                                 | --                                             | 5                                                    | 4.5                                                       | 1.2                                               | --                                               | .11                               |
| 17... | 1200 | 125                                      | --                                                        | 4.4                                              | 1.1                                           | 16                                                | --                                             | 13                                                   | --                                                        | --                                                | --                                               | .12                               |
| JULY  |      |                                          |                                                           |                                                  |                                               |                                                   |                                                |                                                      |                                                           |                                                   |                                                  |                                   |
| 01... | 1330 | 55                                       | --                                                        | 3.4                                              | 1.1                                           | 15                                                | --                                             | 12                                                   | 3.1                                                       | 2.2                                               | --                                               | .10                               |
| 15... | 1430 | 37                                       | --                                                        | 1.8                                              | .6                                            | 10                                                | 0                                              | 8                                                    | --                                                        | --                                                | --                                               | .11                               |
| 29... | 1400 | 42                                       | --                                                        | 3.4                                              | 1.0                                           | 19                                                | --                                             | 16                                                   | 2.9                                                       | 1.7                                               | --                                               | .10                               |
| AUG.  |      |                                          |                                                           |                                                  |                                               |                                                   |                                                |                                                      |                                                           |                                                   |                                                  |                                   |
| 21... | 1400 | 39                                       | --                                                        | .9                                               | .6                                            | 10                                                | 0                                              | 8                                                    | --                                                        | --                                                | --                                               | .10                               |
| SEP.  |      |                                          |                                                           |                                                  |                                               |                                                   |                                                |                                                      |                                                           |                                                   |                                                  |                                   |
| 04... | 1300 | 68                                       | --                                                        | 1.3                                              | .6                                            | 9                                                 | 0                                              | 7                                                    | 4.2                                                       | 3.3                                               | --                                               | .06                               |
| 19... | 1000 | 52                                       | --                                                        | .4                                               | .7                                            | 12                                                | 0                                              | 10                                                   | --                                                        | --                                                | --                                               | .06                               |

| DATE  | TOTAL<br>NITRITE<br>(N)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(NO <sub>3</sub> )<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOL-<br>VED-<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>ORTHO<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHO<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) |
|-------|-----------------------------------|------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------------|-----------------------------------------|--------------------------------------------------------|-------------------------------------------|----------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------|
| DEC.  |                                   |                                                      |                                                               |                                           |                                           |                                                          |                                         |                                                        |                                           |                                                          |                                                    |                                                             |
| 20... | --                                | --                                                   | .00                                                           | --                                        | --                                        | --                                                       | --                                      | --                                                     | --                                        | --                                                       | --                                                 | .01                                                         |
| MAR.  |                                   |                                                      |                                                               |                                           |                                           |                                                          |                                         |                                                        |                                           |                                                          |                                                    |                                                             |
| 25... | --                                | --                                                   | --                                                            | --                                        | --                                        | --                                                       | --                                      | --                                                     | --                                        | --                                                       | --                                                 | --                                                          |
| APR.  |                                   |                                                      |                                                               |                                           |                                           |                                                          |                                         |                                                        |                                           |                                                          |                                                    |                                                             |
| 03... | --                                | .05                                                  | --                                                            | .03                                       | .20                                       | .23                                                      | .28                                     | 1.2                                                    | .14                                       | --                                                       | --                                                 | --                                                          |
| 22... | .02                               | .07                                                  | --                                                            | .12                                       | .13                                       | .25                                                      | .32                                     | 1.4                                                    | .08                                       | .06                                                      | --                                                 | --                                                          |
| MAY   |                                   |                                                      |                                                               |                                           |                                           |                                                          |                                         |                                                        |                                           |                                                          |                                                    |                                                             |
| 06... | --                                | --                                                   | --                                                            | --                                        | --                                        | --                                                       | --                                      | --                                                     | --                                        | --                                                       | --                                                 | --                                                          |
| 21... | .01                               | .16                                                  | --                                                            | .12                                       | .68                                       | .80                                                      | .96                                     | 4.3                                                    | .02                                       | .00                                                      | .04                                                | --                                                          |
| JUNE  |                                   |                                                      |                                                               |                                           |                                           |                                                          |                                         |                                                        |                                           |                                                          |                                                    |                                                             |
| 03... | .02                               | .13                                                  | --                                                            | .19                                       | .91                                       | 1.1                                                      | 1.2                                     | 5.4                                                    | .05                                       | .01                                                      | .02                                                | --                                                          |
| 17... | .00                               | .12                                                  | --                                                            | .09                                       | .39                                       | .48                                                      | .60                                     | 2.7                                                    | .03                                       | .00                                                      | .03                                                | --                                                          |
| JULY  |                                   |                                                      |                                                               |                                           |                                           |                                                          |                                         |                                                        |                                           |                                                          |                                                    |                                                             |
| 01... | .00                               | .10                                                  | --                                                            | .01                                       | .22                                       | .23                                                      | .33                                     | 1.5                                                    | .01                                       | .01                                                      | .01                                                | --                                                          |
| 15... | .00                               | .11                                                  | --                                                            | .15                                       | .65                                       | .80                                                      | .91                                     | 4.0                                                    | .04                                       | --                                                       | .01                                                | --                                                          |
| 29... | .01                               | .11                                                  | --                                                            | .01                                       | .35                                       | .36                                                      | .47                                     | 2.1                                                    | .03                                       | .00                                                      | .03                                                | --                                                          |
| AUG.  |                                   |                                                      |                                                               |                                           |                                           |                                                          |                                         |                                                        |                                           |                                                          |                                                    |                                                             |
| 21... | .01                               | .11                                                  | --                                                            | .05                                       | .27                                       | .32                                                      | .43                                     | 1.9                                                    | .03                                       | .02                                                      | .01                                                | --                                                          |
| SEP.  |                                   |                                                      |                                                               |                                           |                                           |                                                          |                                         |                                                        |                                           |                                                          |                                                    |                                                             |
| 04... | .01                               | .07                                                  | --                                                            | .00                                       | .42                                       | .42                                                      | .49                                     | 2.2                                                    | .05                                       | .01                                                      | .01                                                | --                                                          |
| 19... | .00                               | .06                                                  | --                                                            | .00                                       | .16                                       | .16                                                      | .22                                     | .97                                                    | .01                                       | .00                                                      | .01                                                | --                                                          |

## TENNESSEE RIVER BASIN

03592800 YELLOW CREEK NEAR DOSKIE, MISS.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE  | DIS-<br>SOLVED<br>ORTHO<br>PHOS-<br>PHATE<br>(PO4)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) |
|-------|--------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|------------------------------------------------------|------------------------------------|---------------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|----------------------------------------------|
| DEC.  |                                                              |                                                                  |                                                    |                                                  |                                                      |                                    |                                                   |                                                            |               |                             |                                              |
| 20... | .03                                                          | --                                                               | --                                                 | --                                               | --                                                   | --                                 | --                                                | 34                                                         | 6.1           | 6.0                         | --                                           |
| MAR.  |                                                              |                                                                  |                                                    |                                                  |                                                      |                                    |                                                   |                                                            |               |                             |                                              |
| 25... | --                                                           | --                                                               | --                                                 | --                                               | --                                                   | --                                 | --                                                | 28                                                         | 5.4           | 9.0                         | --                                           |
| APR.  |                                                              |                                                                  |                                                    |                                                  |                                                      |                                    |                                                   |                                                            |               |                             |                                              |
| 03... | --                                                           | 18                                                               | .02                                                | 8.07                                             | 11                                                   | --                                 | --                                                | 23                                                         | 5.4           | 18.0                        | --                                           |
| 22... | --                                                           | 12                                                               | .02                                                | 6.64                                             | --                                                   | 6                                  | 0                                                 | 24                                                         | 6.4           | 16.5                        | 100                                          |
| MAY   |                                                              |                                                                  |                                                    |                                                  |                                                      |                                    |                                                   |                                                            |               |                             |                                              |
| 06... | --                                                           | --                                                               | --                                                 | --                                               | --                                                   | --                                 | --                                                | 30                                                         | 4.8           | 15.0                        | --                                           |
| 21... | --                                                           | 41                                                               | .06                                                | 10.1                                             | --                                                   | 13                                 | 3                                                 | 47                                                         | 6.4           | 22.5                        | 100                                          |
| JUNE  |                                                              |                                                                  |                                                    |                                                  |                                                      |                                    |                                                   |                                                            |               |                             |                                              |
| 03... | --                                                           | 40                                                               | .05                                                | 108                                              | --                                                   | 13                                 | 8                                                 | 26                                                         | 7.0           | 19.0                        | 100                                          |
| 17... | --                                                           | 46                                                               | .06                                                | 15.5                                             | --                                                   | 16                                 | 2                                                 | 32                                                         | 6.5           | 18.5                        | 200                                          |
| JULY  |                                                              |                                                                  |                                                    |                                                  |                                                      |                                    |                                                   |                                                            |               |                             |                                              |
| 01... | --                                                           | 61                                                               | .08                                                | 9.19                                             | --                                                   | 13                                 | 1                                                 | 30                                                         | 6.4           | 21.0                        | 100                                          |
| 15... | --                                                           | 34                                                               | .05                                                | 3.40                                             | --                                                   | 7                                  | 0                                                 | 24                                                         | 6.9           | 23.0                        | 60                                           |
| 29... | --                                                           | 42                                                               | .06                                                | 4.76                                             | --                                                   | 13                                 | 0                                                 | 46                                                         | 7.0           | 23.5                        | 80                                           |
| AUG.  |                                                              |                                                                  |                                                    |                                                  |                                                      |                                    |                                                   |                                                            |               |                             |                                              |
| 21... | --                                                           | --                                                               | .08                                                | 6.11                                             | --                                                   | 5                                  | 0                                                 | 27                                                         | 6.7           | 23.0                        | 60                                           |
| SEP.  |                                                              |                                                                  |                                                    |                                                  |                                                      |                                    |                                                   |                                                            |               |                             |                                              |
| 04... | --                                                           | 20                                                               | .03                                                | 3.67                                             | --                                                   | 6                                  | 0                                                 | 28                                                         | 6.8           | 16.0                        | 90                                           |
| 19... | --                                                           | 43                                                               | .06                                                | 6.04                                             | --                                                   | 4                                  | 0                                                 | 28                                                         | 6.4           | 17.0                        | 80                                           |

| DATE  | TUR-<br>BID-<br>ITY<br>(JTU) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(HIGH<br>LEVEL)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) | CARBON<br>DIOXIDE<br>(CO2)<br>(MG/L) | IMME-<br>DIATE<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | PHENOLS<br>(UG/L) | TOTAL<br>MERCURY<br>(HG)<br>(UG/L) |
|-------|------------------------------|------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|--------------------------------------|------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|---------------------------------------------|-------------------|------------------------------------|
| DEC.  |                              |                                    |                                                                |                                                     |                                      |                                                            |                                                   |                                                       |                                             |                   |                                    |
| 20... | --                           | --                                 | --                                                             | --                                                  | 7.6                                  | --                                                         | --                                                | --                                                    | --                                          | --                | --                                 |
| MAR.  |                              |                                    |                                                                |                                                     |                                      |                                                            |                                                   |                                                       |                                             |                   |                                    |
| 25... | --                           | 9.8                                | --                                                             | --                                                  | --                                   | --                                                         | --                                                | --                                                    | --                                          | --                | --                                 |
| APR.  |                              |                                    |                                                                |                                                     |                                      |                                                            |                                                   |                                                       |                                             |                   |                                    |
| 03... | 10                           | 8.4                                | 12                                                             | --                                                  | --                                   | --                                                         | --                                                | --                                                    | --                                          | --                | --                                 |
| 22... | --                           | 8.4                                | 4                                                              | --                                                  | 5.7                                  | --                                                         | --                                                | --                                                    | 18                                          | 0                 | --                                 |
| MAY   |                              |                                    |                                                                |                                                     |                                      |                                                            |                                                   |                                                       |                                             |                   |                                    |
| 06... | --                           | 9.8                                | --                                                             | .4                                                  | --                                   | --                                                         | --                                                | --                                                    | --                                          | --                | --                                 |
| 21... | --                           | 7.8                                | 6                                                              | 3.4                                                 | 7.6                                  | 850                                                        | 240                                               | 415                                                   | --                                          | --                | --                                 |
| JUNE  |                              |                                    |                                                                |                                                     |                                      |                                                            |                                                   |                                                       |                                             |                   |                                    |
| 03... | --                           | 7.7                                | 20                                                             | 5.6                                                 | 1.0                                  | --                                                         | --                                                | --                                                    | 12                                          | 6                 | .7                                 |
| 17... | --                           | 8.9                                | 20                                                             | .0                                                  | 8.1                                  | --                                                         | --                                                | --                                                    | 13                                          | --                | --                                 |
| JULY  |                              |                                    |                                                                |                                                     |                                      |                                                            |                                                   |                                                       |                                             |                   |                                    |
| 01... | --                           | 8.4                                | 11                                                             | --                                                  | 9.6                                  | --                                                         | --                                                | --                                                    | 5.8                                         | 2                 | .0                                 |
| 15... | --                           | 9.2                                | 11                                                             | 1.8                                                 | 2.0                                  | --                                                         | --                                                | --                                                    | 7.7                                         | --                | --                                 |
| 29... | --                           | 7.5                                | 11                                                             | .7                                                  | 3.0                                  | --                                                         | --                                                | --                                                    | 8.5                                         | 1                 | .1                                 |
| AUG.  |                              |                                    |                                                                |                                                     |                                      |                                                            |                                                   |                                                       |                                             |                   |                                    |
| 21... | --                           | 6.9                                | 18                                                             | .6                                                  | 3.2                                  | --                                                         | --                                                | --                                                    | 17                                          | --                | --                                 |
| SEP.  |                              |                                    |                                                                |                                                     |                                      |                                                            |                                                   |                                                       |                                             |                   |                                    |
| 04... | --                           | 9.9                                | 16                                                             | --                                                  | 2.3                                  | --                                                         | --                                                | --                                                    | --                                          | --                | .0                                 |
| 19... | --                           | 9.5                                | 12                                                             | 2.0                                                 | 7.6                                  | --                                                         | --                                                | --                                                    | 2.9                                         | --                | --                                 |



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SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

03592800 YELLOW CREEK NEAR DOSKIE, MISS.--Continued

PH (UNITS) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

|       | OCTOBER |     | NOVEMBER |     | DECEMBER |     | JANUARY |     | FEBRUARY |     | MARCH |     |
|-------|---------|-----|----------|-----|----------|-----|---------|-----|----------|-----|-------|-----|
| DAY   | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX   | MIN |
| 1     | ---     | --- | ---      | --- | ---      | --- | ---     | --- | 6.5      | 5.2 | 6.3   | 5.9 |
| 2     | ---     | --- | ---      | --- | ---      | --- | ---     | --- | 6.7      | 5.2 | 6.5   | 6.1 |
| 3     | ---     | --- | ---      | --- | ---      | --- | ---     | --- | 5.5      | 5.3 | 6.7   | 6.0 |
| 4     | ---     | --- | ---      | --- | ---      | --- | ---     | --- | 5.5      | 5.3 | 6.7   | 5.6 |
| 5     | ---     | --- | ---      | --- | ---      | --- | ---     | --- | 5.7      | 5.2 | 6.7   | 5.8 |
| 6     | ---     | --- | 5.6      | 5.4 | 5.8      | 5.6 | ---     | --- | 5.8      | 5.1 | 6.6   | 5.9 |
| 7     | ---     | --- | 5.8      | 5.5 | 5.8      | 5.6 | ---     | --- | 5.7      | 4.9 | 6.7   | 5.6 |
| 8     | ---     | --- | 5.5      | 5.4 | 5.9      | 5.7 | ---     | --- | 5.7      | 5.0 | 6.5   | 5.4 |
| 9     | ---     | --- | 5.5      | 5.3 | 6.0      | 5.7 | ---     | --- | 5.9      | 5.0 | 6.7   | 5.5 |
| 10    | ---     | --- | 5.5      | 5.2 | 5.9      | 5.8 | ---     | --- | 6.0      | 5.1 | 6.6   | 5.5 |
| 11    | ---     | --- | 5.5      | 5.3 | 6.0      | 5.8 | ---     | --- | 6.1      | 5.0 | 6.3   | 5.6 |
| 12    | ---     | --- | 5.6      | 5.3 | ---      | --- | ---     | --- | 6.2      | 5.0 | 6.3   | 5.9 |
| 13    | ---     | --- | 5.6      | 5.3 | ---      | --- | ---     | --- | 6.1      | 5.3 | 6.6   | 5.8 |
| 14    | ---     | --- | 5.6      | 5.4 | ---      | --- | 6.0     | 5.7 | 6.2      | 5.3 | 6.8   | 5.9 |
| 15    | ---     | --- | 5.6      | 5.2 | ---      | --- | 6.1     | 5.9 | 5.9      | 5.4 | 6.8   | 6.0 |
| 16    | ---     | --- | 5.6      | 5.1 | ---      | --- | 6.1     | 5.9 | 6.5      | 5.2 | 6.8   | 5.9 |
| 17    | ---     | --- | 5.4      | 5.0 | ---      | --- | 6.2     | 5.9 | 6.4      | 5.2 | 6.6   | 6.1 |
| 18    | ---     | --- | 5.3      | 5.1 | ---      | --- | 6.2     | 5.7 | 6.0      | 5.0 | 6.9   | 6.3 |
| 19    | ---     | --- | 6.9      | 5.4 | ---      | --- | 6.2     | 5.8 | 6.0      | 5.3 | 6.9   | 6.3 |
| 20    | ---     | --- | ---      | --- | 5.8      | 5.6 | 6.3     | 5.9 | 5.9      | 5.1 | ---   | --- |
| 21    | ---     | --- | ---      | --- | 6.0      | 5.8 | 6.0     | 5.6 | 5.9      | 5.1 | ---   | --- |
| 22    | ---     | --- | ---      | --- | 6.0      | 4.9 | 6.0     | 5.4 | 5.6      | 4.9 | ---   | --- |
| 23    | 5.8     | 5.2 | ---      | --- | 6.1      | 5.8 | 6.0     | 5.6 | 6.2      | 5.0 | ---   | --- |
| 24    | 5.9     | 5.2 | ---      | --- | 6.1      | 5.9 | 6.0     | 5.8 | 5.8      | 5.0 | ---   | --- |
| 25    | 6.9     | 5.8 | 7.0      | 5.7 | 6.1      | 5.9 | 5.8     | 5.7 | 6.0      | 5.6 | ---   | --- |
| 26    | ---     | --- | 6.9      | 5.4 | 6.1      | 5.5 | 6.0     | 5.7 | 6.3      | 5.5 | ---   | --- |
| 27    | ---     | --- | 6.8      | 5.3 | 5.6      | 5.2 | 6.0     | 5.7 | 6.4      | 5.6 | ---   | --- |
| 28    | ---     | --- | 5.7      | 5.3 | 6.1      | 5.4 | 6.0     | 5.7 | 6.5      | 5.9 | ---   | --- |
| 29    | ---     | --- | 5.4      | 5.2 | 6.4      | 6.1 | ---     | --- | ---      | --- | ---   | --- |
| 30    | ---     | --- | 5.7      | 5.4 | ---      | --- | ---     | --- | ---      | --- | ---   | --- |
| 31    | ---     | --- | ---      | --- | ---      | --- | ---     | --- | ---      | --- | ---   | --- |
| MONTH | ---     | --- | ---      | --- | ---      | --- | ---     | --- | 6.7      | 4.9 | ---   | --- |

[illegible]

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03592800 YELLOW CREEK NEAR DOSKIE, MISS.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

|       | OCTOBER |      | NOVEMBER |      | DECEMBER |      | JANUARY |      | FEBRUARY |      | MARCH |      |
|-------|---------|------|----------|------|----------|------|---------|------|----------|------|-------|------|
| DAY   | MAX     | MIN  | MAX      | MIN  | MAX      | MIN  | MAX     | MIN  | MAX      | MIN  | MAX   | MIN  |
| 1     | ---     | ---  | 14.0     | 9.0  | 16.0     | 11.5 | ---     | ---  | 16.5     | 11.5 | 9.5   | 8.0  |
| 2     | 20.5    | 20.0 | 15.0     | 13.0 | 17.0     | 12.0 | ---     | ---  | ---      | ---  | 11.0  | 9.0  |
| 3     | 22.0    | 20.0 | 15.5     | 15.0 | 20.0     | 13.5 | ---     | ---  | ---      | ---  | 16.0  | 13.0 |
| 4     | 22.0    | 20.5 | 20.0     | 14.5 | 20.0     | 14.0 | ---     | ---  | 9.0      | 5.5  | 17.0  | 13.0 |
| 5     | 22.0    | 18.5 | 15.0     | 12.0 | ---      | ---  | ---     | ---  | 8.0      | 6.0  | 17.0  | 13.0 |
| 6     | 21.5    | 20.0 | 12.5     | 11.0 | 8.0      | 5.0  | ---     | ---  | 9.5      | 7.0  | 16.5  | 13.5 |
| 7     | 23.0    | 21.0 | 11.0     | 10.5 | 7.5      | 6.5  | ---     | ---  | 9.0      | 5.5  | 17.0  | 13.0 |
| 8     | 23.0    | 22.0 | 13.0     | 12.0 | 7.0      | 6.0  | ---     | ---  | 7.5      | 4.5  | 17.0  | 13.5 |
| 9     | ---     | ---  | 13.0     | 11.0 | 7.0      | 6.0  | 10.0    | ---  | 6.5      | 3.5  | 16.5  | 14.0 |
| 10    | ---     | ---  | 11.0     | 9.0  | 6.5      | 6.0  | 11.5    | 10.0 | 7.0      | 3.0  | 17.0  | 14.0 |
| 11    | ---     | ---  | 13.0     | 9.5  | ---      | ---  | 12.0    | 9.0  | 7.0      | 3.5  | 16.0  | 14.0 |
| 12    | ---     | ---  | 10.0     | 8.0  | ---      | ---  | 10.0    | 7.5  | 7.5      | 3.0  | 17.0  | 14.0 |
| 13    | ---     | ---  | 11.0     | 9.0  | ---      | ---  | 8.5     | 6.5  | 8.0      | 4.5  | 15.0  | 12.0 |
| 14    | ---     | ---  | 14.0     | 11.0 | ---      | ---  | 9.0     | 8.5  | 10.0     | 6.0  | 13.5  | 11.0 |
| 15    | ---     | ---  | 15.5     | 8.5  | ---      | ---  | 10.0    | 9.0  | 10.0     | 6.5  | 15.5  | 12.0 |
| 16    | ---     | ---  | 11.0     | 8.5  | ---      | ---  | 11.0    | 10.0 | 7.5      | 6.0  | 13.0  | 12.0 |
| 17    | ---     | ---  | 11.5     | 7.5  | ---      | ---  | 12.0    | 11.0 | 7.0      | 5.0  | 12.0  | 10.0 |
| 18    | ---     | ---  | 12.0     | 10.0 | ---      | ---  | 12.5    | 12.0 | 7.0      | 3.5  | 12.5  | 11.0 |
| 19    | ---     | ---  | 11.0     | 11.0 | ---      | ---  | 13.0    | 12.0 | 7.5      | 4.5  | 17.0  | 13.0 |
| 20    | ---     | ---  | ---      | ---  | 7.0      | 6.0  | 13.5    | 13.0 | 8.0      | 5.0  | 17.5  | 13.0 |
| 21    | ---     | ---  | ---      | ---  | 5.0      | 3.0  | 13.0    | 12.0 | 10.0     | 6.0  | 17.0  | 11.0 |
| 22    | ---     | ---  | ---      | ---  | 5.0      | 3.5  | 12.0    | 11.0 | 9.0      | 6.0  | ---   | ---  |
| 23    | 14.5    | 12.0 | ---      | ---  | 7.0      | 5.0  | 13.0    | 11.5 | 7.0      | 5.0  | ---   | ---  |
| 24    | 15.0    | 12.5 | ---      | ---  | 10.5     | 7.0  | 11.0    | 10.0 | 8.0      | 5.0  | ---   | ---  |
| 25    | 15.0    | 13.0 | ---      | ---  | 14.0     | 11.0 | 12.0    | 10.0 | 5.5      | 4.5  | 11.0  | 9.0  |
| 26    | 15.0    | 14.0 | 19.0     | 17.0 | 14.0     | 9.5  | 14.5    | 12.0 | 6.0      | 4.5  | ---   | ---  |
| 27    | 15.0    | 13.5 | 18.0     | 14.0 | 9.5      | 9.0  | 14.0    | 13.0 | 5.5      | 3.5  | ---   | ---  |
| 28    | 15.0    | 12.5 | ---      | ---  | 12.0     | 8.0  | 15.5    | 14.0 | 7.0      | 4.0  | ---   | ---  |
| 29    | 12.5    | 10.0 | 14.0     | 12.5 | 15.0     | 11.5 | 16.0    | 13.0 | ---      | ---  | ---   | ---  |
| 30    | 14.0    | 12.5 | 15.0     | 11.0 | 13.5     | 12.0 | 14.0    | 11.0 | ---      | ---  | ---   | ---  |
| 31    | 12.5    | 12.0 | ---      | ---  | 13.5     | 13.0 | 15.5    | 11.0 | ---      | ---  | ---   | ---  |
| MONTH | ---     | ---  | ---      | ---  | ---      | ---  | ---     | ---  | 16.5     | 3.0  | ---   | ---  |

[illegible]

## TENNESSEE RIVER BASIN

03592800 YELLOW CREEK NEAR DOSKIE, MISS.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

|       | OCTOBER |      | NOVEMBER |      | DECEMBER |      | JANUARY |      | FEBRUARY |      | MARCH |      |
|-------|---------|------|----------|------|----------|------|---------|------|----------|------|-------|------|
| DAY   | MAX     | MIN  | MAX      | MIN  | MAX      | MIN  | MAX     | MIN  | MAX      | MIN  | MAX   | MIN  |
| 1     | 7.6     | 7.3  | 11.1     | 10.2 | 10.5     | 9.9  | ---     | ---  | 9.6      | 8.9  | 11.3  | 10.5 |
| 2     | 7.4     | 7.4  | 10.2     | 9.7  | 10.8     | 10.3 | ---     | ---  | 9.1      | 8.8  | 11.3  | 10.0 |
| 3     | 8.1     | 6.5  | 11.4     | 11.3 | ---      | ---  | ---     | ---  | ---      | ---  | 10.7  | 9.7  |
| 4     | 7.9     | 4.7  | 11.6     | 11.3 | 12.4     | 11.6 | ---     | ---  | ---      | ---  | 10.0  | 7.8  |
| 5     | 8.8     | 4.1  | 11.8     | 10.5 | 12.0     | 12.7 | ---     | ---  | 13.1     | 12.5 | 10.3  | 7.7  |
| 6     | 9.7     | 8.7  | 12.0     | 11.5 | 12.7     | 12.5 | ---     | ---  | 12.5     | 11.8 | 10.2  | 7.4  |
| 7     | 9.2     | 8.2  | 11.9     | 11.2 | 12.9     | 12.6 | ---     | ---  | 13.0     | 11.6 | 10.1  | 7.1  |
| 8     | 8.8     | 8.0  | 10.7     | 7.7  | 12.8     | 12.3 | ---     | ---  | 13.5     | 12.6 | 9.9   | 7.0  |
| 9     | ---     | ---  | 11.0     | 6.9  | 12.6     | 11.7 | 10.5    | 10.3 | 13.7     | 13.1 | 10.3  | 7.6  |
| 10    | ---     | ---  | 12.0     | 11.5 | 11.7     | 10.7 | 10.7    | 10.2 | 13.6     | 12.6 | 10.1  | 5.8  |
| 11    | ---     | ---  | 12.3     | 10.9 | 10.8     | 10.2 | 10.6    | 7.4  | 13.4     | 12.0 | 6.3   | 5.4  |
| 12    | ---     | ---  | 11.8     | 8.3  | ---      | ---  | 11.7    | 10.9 | 13.1     | 11.8 | 10.0  | 7.8  |
| 13    | ---     | ---  | 9.2      | 8.3  | ---      | ---  | 12.7    | 11.8 | 12.8     | 11.6 | 10.1  | 6.9  |
| 14    | ---     | ---  | 8.7      | 8.0  | ---      | ---  | 12.7    | 11.6 | ---      | ---  | 10.2  | 9.8  |
| 15    | ---     | ---  | 8.4      | 6.2  | ---      | ---  | 12.1    | 11.3 | 10.4     | 9.9  | 10.8  | 9.3  |
| 16    | ---     | ---  | 8.4      | 6.1  | ---      | ---  | 11.7    | 11.3 | 12.1     | 10.1 | 9.9   | 4.5  |
| 17    | ---     | ---  | 9.8      | 8.8  | ---      | ---  | 11.5    | 11.1 | 12.1     | 10.4 | 8.2   | 7.5  |
| 18    | ---     | ---  | 10.7     | 9.7  | ---      | ---  | 11.5    | 11.3 | 11.8     | 10.7 | 10.7  | 7.8  |
| 19    | ---     | ---  | ---      | ---  | ---      | ---  | 11.5    | 11.0 | 12.2     | 10.9 | 8.1   | 7.2  |
| 20    | ---     | ---  | ---      | ---  | 12.8     | 11.4 | 11.2    | 10.5 | 11.6     | 10.8 | 8.0   | 6.7  |
| 21    | ---     | ---  | ---      | ---  | 12.6     | 11.7 | 11.1    | 10.6 | 11.4     | 10.2 | 7.7   | 6.5  |
| 22    | ---     | ---  | ---      | ---  | 13.0     | 12.0 | 11.4    | 10.7 | 11.2     | 10.0 | 7.0   | 5.6  |
| 23    | 11.0    | 10.2 | ---      | ---  | 12.1     | 11.4 | 11.9    | 11.2 | 12.6     | 11.1 | 6.7   | 4.5  |
| 24    | 10.4    | 9.7  | ---      | ---  | 12.0     | 10.9 | 12.3    | 11.7 | 11.8     | 11.0 | 7.0   | 5.4  |
| 25    | 9.8     | 9.5  | ---      | ---  | 10.9     | 8.9  | 11.7    | 10.8 | 12.3     | 11.8 | 9.6   | 7.9  |
| 26    | 9.8     | 9.5  | ---      | ---  | 11.7     | 11.3 | 11.7    | 10.7 | 12.9     | 12.1 | 9.9   | 7.5  |
| 27    | 10.0    | 9.6  | 11.6     | 7.1  | ---      | ---  | 11.8    | 11.0 | 12.6     | 10.7 | ---   | ---  |
| 28    | 10.1    | 9.6  | ---      | ---  | 11.9     | 9.6  | ---     | ---  | 12.6     | 11.2 | ---   | ---  |
| 29    | 10.7    | 9.9  | ---      | ---  | 9.9      | 9.5  | 9.8     | 8.6  | ---      | ---  | ---   | ---  |
| 30    | 10.8    | 10.2 | ---      | ---  | 10.2     | 9.5  | 9.8     | 8.5  | ---      | ---  | ---   | ---  |
| 31    | 10.5    | 10.1 | ---      | ---  | 10.1     | 9.4  | 9.6     | 8.7  | ---      | ---  | ---   | ---  |
| MONTH | ---     | ---  | ---      | ---  | ---      | ---  | ---     | ---  | 13.7     | 8.8  | 11.3  | 4.7  |

[illegible]

## 191

LOCATION.--Lat 34°57'13", long 88°13'14", in NW¼ sec.35, T.1 S., R.10 E., Chickasaw meridian, Tishomingo County, in Yellow Creek Embayment of Pickwick Lake at Mile 6 (9.6 km).  
PERIOD OF RECORD.--Chemical analyses: June to September 1974.

[illegible][illegible]

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]



## 193

LOCATION.--Lat 34°59'25", long 88°12'48", in S½ sec.14, T.1 S., R.10 E., Chickasaw meridian, Tishomingo County, in Yellow Creek Embayment at Pickwick Lake at Mile 1 (1.6 km).

PERIOD OF RECORD.--Chemical analyses: June to September 1974.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

## TENNESSEE RIVER BASIN

03592890 YELLOW CREEK AT MILE ONE NEAR PINE FLAT, MISS.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

03592890 YELLOW CREEK AT MILE ONE NEAR PINE FLAT, MISS.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE  | DIS-<br>SOL-<br>VED-<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) | SUS-<br>PENDED<br>SOLIDS<br>(MG/L) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | TUR-<br>BID-<br>ITY<br>(JTU) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|----------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------|------------------------------------|------------------------------------|---------------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------|------------------------------------|
| JUNE  |                                                          |                                                                  |                                                    |                                    |                                    |                                                   |                                                            |               |                             |                              |                                    |
| 11... | .00                                                      | 71                                                               | .10                                                | 6                                  | 43                                 | 4                                                 | 105                                                        | 6.7           | --                          | 8                            | 8.1                                |
| 11... | .01                                                      | 66                                                               | .09                                                | 9                                  | 47                                 | 7                                                 | 105                                                        | 6.9           | 24.5                        | 10                           | 8.2                                |
| 11... | .01                                                      | 81                                                               | .11                                                | 19                                 | 50                                 | 3                                                 | 120                                                        | 6.9           | 23.0                        | 20                           | 6.5                                |
| 11... | .01                                                      | 72                                                               | .10                                                | 36                                 | 43                                 | 6                                                 | 100                                                        | 6.9           | 23.0                        | 30                           | 5.1                                |
| 24... | .01                                                      | 70                                                               | .10                                                | 10                                 | 60                                 | 8                                                 | 145                                                        | 7.1           | 24.0                        | 9                            | 7.7                                |
| 24... | .02                                                      | 80                                                               | .11                                                | 14                                 | 60                                 | 9                                                 | 150                                                        | 7.1           | 24.0                        | 7                            | 6.5                                |
| 24... | .01                                                      | 76                                                               | .10                                                | 24                                 | 51                                 | 9                                                 | 135                                                        | 6.7           | 24.0                        | 10                           | 3.8                                |
| 24... | .01                                                      | 92                                                               | .13                                                | 336                                | 51                                 | 10                                                | 130                                                        | 6.7           | 23.5                        | 50                           | 2.4                                |
| JULY  |                                                          |                                                                  |                                                    |                                    |                                    |                                                   |                                                            |               |                             |                              |                                    |
| 09... | --                                                       | --                                                               | --                                                 | --                                 | --                                 | --                                                | 130                                                        | 7.7           | 27.0                        | 3                            | 9.1                                |
| 09... | --                                                       | --                                                               | --                                                 | --                                 | --                                 | --                                                | 135                                                        | --            | 26.5                        | --                           | 9.0                                |
| 09... | --                                                       | --                                                               | --                                                 | --                                 | --                                 | --                                                | 140                                                        | 7.4           | 26.0                        | 5                            | 8.4                                |
| 09... | --                                                       | --                                                               | --                                                 | --                                 | --                                 | --                                                | 150                                                        | --            | 26.0                        | --                           | 8.0                                |
| 09... | --                                                       | --                                                               | --                                                 | --                                 | --                                 | --                                                | 155                                                        | 7.0           | 25.5                        | 6                            | 6.6                                |
| 09... | --                                                       | --                                                               | --                                                 | --                                 | --                                 | --                                                | 160                                                        | --            | 25.0                        | --                           | 6.4                                |
| 09... | --                                                       | --                                                               | --                                                 | --                                 | --                                 | --                                                | 145                                                        | --            | 25.0                        | --                           | 4.3                                |
| 09... | --                                                       | --                                                               | --                                                 | --                                 | --                                 | --                                                | 130                                                        | 6.9           | 24.0                        | --                           | 2.4                                |
| 24... | .01                                                      | 82                                                               | .11                                                | 3                                  | 55                                 | 2                                                 | 155                                                        | 7.6           | 29.0                        | 3                            | 8.1                                |
| 24... | --                                                       | --                                                               | --                                                 | --                                 | --                                 | --                                                | 155                                                        | --            | 28.5                        | --                           | 7.8                                |
| 24... | --                                                       | --                                                               | --                                                 | --                                 | --                                 | --                                                | 160                                                        | --            | 28.0                        | --                           | 7.4                                |
| 24... | .00                                                      | 78                                                               | .11                                                | 8                                  | 54                                 | 0                                                 | 160                                                        | 7.2           | 28.0                        | 3                            | 6.7                                |
| 24... | --                                                       | --                                                               | --                                                 | --                                 | --                                 | --                                                | 160                                                        | --            | 28.0                        | --                           | 6.2                                |
| 24... | --                                                       | --                                                               | --                                                 | --                                 | --                                 | --                                                | 160                                                        | --            | 28.0                        | --                           | 5.3                                |
| 24... | --                                                       | --                                                               | --                                                 | --                                 | --                                 | --                                                | 160                                                        | --            | 28.0                        | --                           | 4.5                                |
| 24... | .00                                                      | 78                                                               | .11                                                | 32                                 | 54                                 | 5                                                 | 145                                                        | 6.8           | 27.0                        | 9                            | 1.5                                |
| AUG.  |                                                          |                                                                  |                                                    |                                    |                                    |                                                   |                                                            |               |                             |                              |                                    |
| 13... | --                                                       | --                                                               | --                                                 | --                                 | --                                 | --                                                | 165                                                        | 7.2           | 27.5                        | 3                            | 6.8                                |
| 13... | --                                                       | --                                                               | --                                                 | --                                 | --                                 | --                                                | 160                                                        | --            | 27.5                        | --                           | 6.6                                |
| 13... | --                                                       | --                                                               | --                                                 | --                                 | --                                 | --                                                | 160                                                        | 7.3           | 27.5                        | 4                            | 6.3                                |
| 13... | --                                                       | --                                                               | --                                                 | --                                 | --                                 | --                                                | 155                                                        | --            | 27.5                        | --                           | 6.2                                |
| 13... | --                                                       | --                                                               | --                                                 | --                                 | --                                 | --                                                | 160                                                        | 7.4           | 27.0                        | 2                            | 6.0                                |
| 13... | --                                                       | --                                                               | --                                                 | --                                 | --                                 | --                                                | 160                                                        | --            | 27.0                        | --                           | 5.7                                |
| 13... | --                                                       | --                                                               | --                                                 | --                                 | --                                 | --                                                | 175                                                        | 7.3           | 27.0                        | 10                           | 4.4                                |
| 28... | .04                                                      | 90                                                               | .12                                                | 4                                  | --                                 | --                                                | 150                                                        | 8.3           | 29.0                        | 7                            | 8.9                                |
| 28... | --                                                       | --                                                               | --                                                 | --                                 | --                                 | --                                                | 155                                                        | --            | 29.0                        | --                           | 8.3                                |
| 28... | .02                                                      | 86                                                               | .12                                                | 0                                  | --                                 | --                                                | 160                                                        | 8.4           | 29.0                        | 4                            | 7.4                                |
| 28... | --                                                       | --                                                               | --                                                 | --                                 | --                                 | --                                                | 165                                                        | --            | 29.0                        | --                           | 7.0                                |
| 28... | .04                                                      | 118                                                              | .16                                                | 4                                  | --                                 | --                                                | 175                                                        | 7.8           | 29.0                        | 4                            | 7.0                                |
| 28... | --                                                       | --                                                               | --                                                 | --                                 | --                                 | --                                                | 170                                                        | --            | 28.0                        | --                           | 4.1                                |
| 28... | --                                                       | --                                                               | --                                                 | --                                 | --                                 | --                                                | 165                                                        | --            | 28.0                        | --                           | 2.7                                |
| 28... | .02                                                      | 107                                                              | .15                                                | 14                                 | --                                 | --                                                | 160                                                        | 7.8           | 27.5                        | 10                           | 1.8                                |
| SEP.  |                                                          |                                                                  |                                                    |                                    |                                    |                                                   |                                                            |               |                             |                              |                                    |
| 10... | --                                                       | --                                                               | --                                                 | --                                 | --                                 | --                                                | 170                                                        | 7.2           | 24.0                        | 5                            | 6.7                                |
| 10... | --                                                       | --                                                               | --                                                 | --                                 | --                                 | --                                                | 175                                                        | --            | 24.0                        | --                           | 6.4                                |
| 10... | --                                                       | --                                                               | --                                                 | --                                 | --                                 | --                                                | 175                                                        | 7.3           | 24.5                        | 6                            | 6.3                                |
| 10... | --                                                       | --                                                               | --                                                 | --                                 | --                                 | --                                                | 170                                                        | --            | 24.5                        | --                           | 6.2                                |
| 10... | --                                                       | --                                                               | --                                                 | --                                 | --                                 | --                                                | 165                                                        | 7.3           | 24.0                        | 6                            | 5.8                                |
| 10... | --                                                       | --                                                               | --                                                 | --                                 | --                                 | --                                                | 160                                                        | --            | 24.0                        | --                           | 5.5                                |
| 10... | --                                                       | --                                                               | --                                                 | --                                 | --                                 | --                                                | 120                                                        | 6.9           | 23.5                        | 20                           | 4.1                                |

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

YAZOO RIVER BASIN  
(National water quality surveillance system)

197

07287500 YAZOO RIVER AT YAZOO CITY, MISS.

LOCATION.--Lat 32°52'45", long 90°29'25", in SE¼ sec.30, T.12 N., R.3 W., at downstream side of bridge on U.S. Highway 49 W., one mile (1.6 km) northwest of Yazoo City.

DRAINAGE AREA.--8,580 mi<sup>2</sup> (22,220 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: February to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | DIS-<br>SOLVED<br>SILICA<br>(SiO <sub>2</sub> )<br>(MG/L) | TOTAL<br>IRON<br>(FE)<br>(UG/L) | BICAR-<br>BONATE<br>(HCO <sub>3</sub> )<br>(MG/L) | CAR-<br>BONATE<br>(CO <sub>3</sub> )<br>(MG/L) | ALKA-<br>LINITY<br>AS<br>CACO <sub>3</sub><br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(SO <sub>4</sub> )<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) |
|-------|------|-----------------------------------------------|-----------------------------------------------------------|---------------------------------|---------------------------------------------------|------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------|------------------------------------------------------|-------------------------------------------|
| FEB.  |      |                                               |                                                           |                                 |                                                   |                                                |                                                      |                                                           |                                                   |                                                      |                                           |
| 2A... | 1800 | 18200                                         | --                                                        | --                              | --                                                | --                                             | --                                                   | --                                                        | --                                                | --                                                   | --                                        |
| MAR.  |      |                                               |                                                           |                                 |                                                   |                                                |                                                      |                                                           |                                                   |                                                      |                                           |
| 13... | 1700 | 17400                                         | 4.6                                                       | 6300                            | --                                                | --                                             | --                                                   | --                                                        | --                                                | .24                                                  | .13                                       |
| 28... | 1530 | 15800                                         | 4.9                                                       | 4700                            | --                                                | --                                             | --                                                   | --                                                        | --                                                | .28                                                  | .31                                       |
| APR.  |      |                                               |                                                           |                                 |                                                   |                                                |                                                      |                                                           |                                                   |                                                      |                                           |
| 11... | 1330 | 15600                                         | 5.2                                                       | 7000                            | --                                                | --                                             | --                                                   | --                                                        | --                                                | .33                                                  | .32                                       |
| 23... | 1445 | 15400                                         | --                                                        | --                              | 57                                                | 0                                              | 47                                                   | 12                                                        | 5.0                                               | --                                                   | --                                        |
| MAY   |      |                                               |                                                           |                                 |                                                   |                                                |                                                      |                                                           |                                                   |                                                      |                                           |
| 06... | 1400 | 10200                                         | 6.2                                                       | 10000                           | --                                                | --                                             | --                                                   | --                                                        | --                                                | .70                                                  | .00                                       |
| 21... | 1400 | 11300                                         | 4.5                                                       | 25000                           | --                                                | --                                             | --                                                   | --                                                        | --                                                | .57                                                  | .00                                       |
| JUNE  |      |                                               |                                                           |                                 |                                                   |                                                |                                                      |                                                           |                                                   |                                                      |                                           |
| 04... | 1330 | 14800                                         | 6.2                                                       | 12000                           | --                                                | --                                             | --                                                   | --                                                        | --                                                | .80                                                  | .17                                       |
| 14... | 1330 | 15600                                         | 6.1                                                       | 11000                           | --                                                | --                                             | --                                                   | --                                                        | --                                                | .50                                                  | .24                                       |
| JULY  |      |                                               |                                                           |                                 |                                                   |                                                |                                                      |                                                           |                                                   |                                                      |                                           |
| 08... | 1330 | 14000                                         | --                                                        | --                              | 28                                                | 0                                              | 23                                                   | 6.5                                                       | 3.3                                               | --                                                   | --                                        |
| 22... | 1315 | 11700                                         | 5.7                                                       | 7000                            | --                                                | --                                             | --                                                   | --                                                        | --                                                | .29                                                  | .11                                       |
| AUG.  |      |                                               |                                                           |                                 |                                                   |                                                |                                                      |                                                           |                                                   |                                                      |                                           |
| 09... | 1130 | 11400                                         | 5.6                                                       | 6100                            | --                                                | --                                             | --                                                   | --                                                        | --                                                | .25                                                  | .12                                       |
| 20... | 1230 | 10800                                         | 5.6                                                       | 5500                            | --                                                | --                                             | --                                                   | --                                                        | --                                                | .24                                                  | .23                                       |
| SEP.  |      |                                               |                                                           |                                 |                                                   |                                                |                                                      |                                                           |                                                   |                                                      |                                           |
| 03... | 1400 | 12600                                         | 6.5                                                       | 5600                            | --                                                | --                                             | --                                                   | --                                                        | --                                                | .30                                                  | .14                                       |
| 16... | 1500 | 9800                                          | 6.0                                                       | 4700                            | --                                                | --                                             | --                                                   | --                                                        | --                                                | .32                                                  | .07                                       |
| 30... | 1500 | 10400                                         | 5.7                                                       | 3200                            | --                                                | --                                             | --                                                   | --                                                        | --                                                | .20                                                  | .08                                       |

| DATE  | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(NO <sub>3</sub> )<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) |
|-------|-------------------------------------------|----------------------------------------------------------|-----------------------------------------|--------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|------------------------------------------------------|------------------------------------------------------------|
| FEB.  |                                           |                                                          |                                         |                                                        |                                           |                                                                  |                                                    |                                                  |                                                      |                                                            |
| 2A... | --                                        | --                                                       | --                                      | --                                                     | --                                        | --                                                               | --                                                 | --                                               | --                                                   | 58                                                         |
| MAR.  |                                           |                                                          |                                         |                                                        |                                           |                                                                  |                                                    |                                                  |                                                      |                                                            |
| 13... | .24                                       | .37                                                      | .61                                     | 2.7                                                    | .27                                       | 50                                                               | .07                                                | 2350                                             | 106                                                  | 60                                                         |
| 28... | .59                                       | .90                                                      | 1.2                                     | 5.2                                                    | .16                                       | 52                                                               | .07                                                | 2220                                             | 127                                                  | 65                                                         |
| APR.  |                                           |                                                          |                                         |                                                        |                                           |                                                                  |                                                    |                                                  |                                                      |                                                            |
| 11... | .09                                       | .41                                                      | .74                                     | 3.3                                                    | .22                                       | 43                                                               | .06                                                | 1810                                             | 60                                                   | 69                                                         |
| 23... | --                                        | --                                                       | --                                      | --                                                     | --                                        | --                                                               | --                                                 | --                                               | --                                                   | 128                                                        |
| MAY   |                                           |                                                          |                                         |                                                        |                                           |                                                                  |                                                    |                                                  |                                                      |                                                            |
| 06... | .60                                       | .60                                                      | 1.3                                     | 5.8                                                    | .39                                       | 117                                                              | .16                                                | 3220                                             | 333                                                  | 95                                                         |
| 21... | 1.8                                       | 1.8                                                      | 2.4                                     | 11                                                     | .82                                       | 72                                                               | .10                                                | 2200                                             | 603                                                  | 54                                                         |
| JUNE  |                                           |                                                          |                                         |                                                        |                                           |                                                                  |                                                    |                                                  |                                                      |                                                            |
| 04... | .57                                       | .74                                                      | 1.5                                     | 6.8                                                    | .44                                       | 56                                                               | .08                                                | 2240                                             | 266                                                  | 63                                                         |
| 14... | .74                                       | .98                                                      | 1.5                                     | 6.6                                                    | .21                                       | 60                                                               | .08                                                | 2530                                             | 260                                                  | 75                                                         |
| JULY  |                                           |                                                          |                                         |                                                        |                                           |                                                                  |                                                    |                                                  |                                                      |                                                            |
| 08... | --                                        | --                                                       | --                                      | --                                                     | --                                        | --                                                               | --                                                 | --                                               | --                                                   | 70                                                         |
| 22... | .78                                       | .89                                                      | 1.2                                     | 5.2                                                    | .30                                       | 52                                                               | .07                                                | 1640                                             | 260                                                  | 60                                                         |
| AUG.  |                                           |                                                          |                                         |                                                        |                                           |                                                                  |                                                    |                                                  |                                                      |                                                            |
| 09... | .78                                       | .90                                                      | 1.2                                     | 5.1                                                    | .22                                       | 176                                                              | .24                                                | 5420                                             | 316                                                  | 78                                                         |
| 20... | .60                                       | .83                                                      | 1.1                                     | 4.7                                                    | .21                                       | 57                                                               | .08                                                | 1660                                             | 164                                                  | 75                                                         |
| SEP.  |                                           |                                                          |                                         |                                                        |                                           |                                                                  |                                                    |                                                  |                                                      |                                                            |
| 03... | .86                                       | 1.0                                                      | 1.3                                     | 5.8                                                    | .22                                       | 64                                                               | .09                                                | 2180                                             | 129                                                  | 73                                                         |
| 16... | .49                                       | .56                                                      | .88                                     | 3.9                                                    | .19                                       | 69                                                               | .09                                                | 1830                                             | 182                                                  | 80                                                         |
| 30... | .32                                       | .40                                                      | .60                                     | 2.7                                                    | .14                                       | 78                                                               | .11                                                | 2190                                             | 126                                                  | 80                                                         |

## YAZOO RIVER BASIN

07287500 YAZOO RIVER AT YAZOO CITY, MISS.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE          | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | TUR-<br>BID-<br>ITY<br>(JTU) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(HIGH<br>LEVEL)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) | CARBON<br>DIOXIDE<br>(CO2)<br>(MG/L) | CHLORO-<br>PHYLL A<br>(UG/L) | CHLORO-<br>PHYLL B<br>(UG/L) | IMME-<br>DIATE<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) |
|---------------|---------------|-----------------------------|------------------------------|------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|--------------------------------------|------------------------------|------------------------------|------------------------------------------------------------|
| FEB.<br>28... | 6.6           | 11.0                        | --                           | 10.4                               | --                                                             | --                                                  | --                                   | --                           | --                           | 6500                                                       |
| MAR.<br>13... | 6.1           | 16.0                        | 100                          | 7.0                                | 23                                                             | --                                                  | --                                   | --                           | --                           | --                                                         |
| 28...         | 6.8           | 16.0                        | 100                          | 8.5                                | 20                                                             | --                                                  | --                                   | 19                           | 20                           | --                                                         |
| APR.<br>11... | 6.9           | 16.0                        | 200                          | 7.5                                | 16                                                             | --                                                  | --                                   | 19                           | 20                           | --                                                         |
| 23...         | 6.8           | 20.0                        | --                           | 6.2                                | 28                                                             | 1.0                                                 | 14                                   | 20                           | 44                           | --                                                         |
| MAY<br>06...  | 6.5           | 22.0                        | 200                          | 5.6                                | 4                                                              | --                                                  | --                                   | 15                           | 29                           | --                                                         |
| 21...         | 6.4           | 25.0                        | 300                          | 5.0                                | 20                                                             | --                                                  | --                                   | 33                           | 62                           | --                                                         |
| JUNE<br>04... | 6.0           | 25.0                        | 100                          | 5.0                                | 18                                                             | --                                                  | --                                   | --                           | --                           | --                                                         |
| 14...         | 5.7           | 14.0                        | 200                          | 7.2                                | 40                                                             | --                                                  | --                                   | 18                           | 31                           | --                                                         |
| JULY<br>08... | 5.9           | 27.0                        | --                           | 4.9                                | --                                                             | --                                                  | 56                                   | --                           | --                           | --                                                         |
| 22...         | 6.3           | 29.0                        | 50                           | 4.7                                | 39                                                             | --                                                  | --                                   | --                           | --                           | --                                                         |
| AUG.<br>09... | 6.6           | 27.2                        | 100                          | 5.5                                | 22                                                             | --                                                  | --                                   | --                           | --                           | --                                                         |
| 20...         | 6.5           | 28.0                        | 80                           | 5.5                                | 25                                                             | --                                                  | --                                   | --                           | --                           | --                                                         |
| SEP.<br>03... | 6.4           | 24.0                        | 90                           | 5.7                                | 20                                                             | --                                                  | --                                   | --                           | --                           | --                                                         |
| 16...         | 6.2           | 26.0                        | 80                           | 6.5                                | 28                                                             | --                                                  | --                                   | --                           | --                           | --                                                         |
| 30...         | 6.7           | 22.0                        | 5                            | 7.6                                | 18                                                             | --                                                  | --                                   | --                           | --                           | --                                                         |

| DATE          | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | OIL<br>AND<br>GREASE<br>(MG/L) | TOTAL<br>ARSENIC<br>(AS)<br>(UG/L) | TOTAL<br>CAD-<br>MIUM<br>(CD)<br>(UG/L) | TOTAL<br>CHRO-<br>MIUM<br>(CR)<br>(UG/L) | TOTAL<br>LEAD<br>(PB)<br>(UG/L) | TOTAL<br>MERCURY<br>(HG)<br>(UG/L) | TOTAL<br>ZINC<br>(ZN)<br>(UG/L) |
|---------------|---------------------------------------------------|-------------------------------------------------------|---------------------------------------------|--------------------------------|------------------------------------|-----------------------------------------|------------------------------------------|---------------------------------|------------------------------------|---------------------------------|
| FEB.<br>28... | 246                                               | 280                                                   | --                                          | --                             | --                                 | --                                      | --                                       | --                              | --                                 | --                              |
| MAR.<br>13... | --                                                | --                                                    | 10                                          | 0                              | --                                 | --                                      | --                                       | --                              | --                                 | --                              |
| 28...         | --                                                | --                                                    | 7.0                                         | 1                              | --                                 | --                                      | --                                       | --                              | --                                 | --                              |
| APR.<br>11... | --                                                | --                                                    | 9.0                                         | 6                              | --                                 | --                                      | --                                       | --                              | --                                 | --                              |
| 23...         | --                                                | --                                                    | 14                                          | 3                              | 13                                 | 1                                       | 0                                        | 17                              | .0                                 | 80                              |
| MAY<br>06...  | --                                                | --                                                    | 16                                          | 2                              | --                                 | --                                      | --                                       | --                              | --                                 | --                              |
| 21...         | --                                                | --                                                    | 13                                          | 2                              | --                                 | --                                      | --                                       | --                              | --                                 | --                              |
| JUNE<br>04... | --                                                | --                                                    | 12                                          | 1                              | --                                 | --                                      | --                                       | --                              | --                                 | --                              |
| 14...         | --                                                | --                                                    | 9.6                                         | 1                              | --                                 | --                                      | --                                       | --                              | --                                 | --                              |
| JULY<br>08... | --                                                | --                                                    | 9.5                                         | 2                              | 6                                  | 0                                       | 20                                       | 29                              | .2                                 | 100                             |
| 22...         | --                                                | --                                                    | 9.5                                         | 0                              | --                                 | --                                      | --                                       | --                              | --                                 | --                              |
| AUG.<br>09... | --                                                | --                                                    | 6.4                                         | 0                              | --                                 | --                                      | --                                       | --                              | --                                 | --                              |
| 20...         | --                                                | --                                                    | 6.1                                         | 2                              | --                                 | --                                      | --                                       | --                              | --                                 | --                              |
| SEP.<br>03... | --                                                | --                                                    | 5.5                                         | 0                              | --                                 | --                                      | --                                       | --                              | --                                 | --                              |
| 16...         | --                                                | --                                                    | 5.5                                         | 0                              | --                                 | --                                      | --                                       | --                              | --                                 | --                              |
| 30...         | --                                                | --                                                    | 5.3                                         | 0                              | --                                 | --                                      | --                                       | --                              | --                                 | --                              |



YAZOO RIVER BASIN  
(National water quality surveillance system)

199

07288800 YAZOO RIVER AT REDWOOD, MISS.

LOCATION.--Lat 32°29'16", long 90°49'00", at Illinois Central Railroad bridge 0.55 mi (0.88 km) downstream from U.S. Highway 61 and 0.95 mi (1.53 km) northwest of Redwood.

DRAINAGE AREA.--12,603 mi<sup>2</sup> (33,642 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: December 1973 to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | DIS-<br>SOLVED<br>SILICA<br>(SI02)<br>(MG/L) | TOTAL<br>IRON<br>(FE)<br>(UG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | BICAR-<br>BONATE<br>(HC03)<br>(MG/L) | CAR-<br>BONATE<br>(C03)<br>(MG/L) |
|-------|------|-----------------------------------------------|----------------------------------------------|---------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------|--------------------------------------------------------|--------------------------------------|-----------------------------------|
| DEC.  |      |                                               |                                              |                                 |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 07... | 1300 | E38200                                        | --                                           | --                              | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| 17... | 1100 | E68800                                        | --                                           | --                              | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| JAN.  |      |                                               |                                              |                                 |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 30... | 1000 | E47300                                        | --                                           | --                              | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| FEB.  |      |                                               |                                              |                                 |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 28... | 1400 | 68000                                         | 5.2                                          | 6900                            | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| MAR.  |      |                                               |                                              |                                 |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 13... | 1500 | 54300                                         | 4.5                                          | 7500                            | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| 28... | 1330 | 24700                                         | 5.0                                          | 6000                            | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| APR.  |      |                                               |                                              |                                 |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 11... | 1030 | E39500                                        | 6.2                                          | 17000                           | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| 23... | 1140 | E37900                                        | --                                           | --                              | 10                                               | 3.0                                           | 4.5                                        | 2.8                                                    | 42                                   | 0                                 |
| MAY   |      |                                               |                                              |                                 |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 06... | 1155 | E51700                                        | 7.4                                          | 13000                           | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| 21... | 1145 | E24700                                        | 6.4                                          | 20000                           | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| JUNE  |      |                                               |                                              |                                 |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 04... | 1130 | E37600                                        | 6.6                                          | 10000                           | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| 14... | 1130 | E37400                                        | 6.0                                          | 12000                           | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| JULY  |      |                                               |                                              |                                 |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 08... | 1130 | E42800                                        | --                                           | --                              | --                                               | --                                            | --                                         | --                                                     | 38                                   | 0                                 |
| 22... | 1045 | E22300                                        | 7.4                                          | 11000                           | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| AUG.  |      |                                               |                                              |                                 |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 09... | 0930 | E19500                                        | 6.9                                          | 7600                            | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| 20... | 1030 | E21100                                        | 7.7                                          | 5700                            | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| SEP.  |      |                                               |                                              |                                 |                                                  |                                               |                                            |                                                        |                                      |                                   |
| 03... | 1130 | E27900                                        | 8.6                                          | 6000                            | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| 16... | 1300 | E17800                                        | 7.1                                          | 3200                            | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |
| 30... | 1300 | E19300                                        | 6.8                                          | 4500                            | --                                               | --                                            | --                                         | --                                                     | --                                   | --                                |

| DATE  | ALKA-<br>LITY<br>AS<br>CAC03<br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(S04)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N03)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) |
|-------|----------------------------------------|----------------------------------------------|---------------------------------------------------|------------------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------------|-------------------------------------------|
| DEC.  |                                        |                                              |                                                   |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |
| 07... | --                                     | --                                           | --                                                | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        | --                                        |
| 17... | --                                     | --                                           | --                                                | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        | --                                        |
| JAN.  |                                        |                                              |                                                   |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |
| 30... | --                                     | --                                           | 3.4                                               | .25                                                  | --                                        | --                                        | .25                                                      | .50                                     | 2.2                                       | .58                                       |
| FEB.  |                                        |                                              |                                                   |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |
| 28... | --                                     | --                                           | --                                                | .33                                                  | .15                                       | .26                                       | .41                                                      | .74                                     | 3.3                                       | .24                                       |
| MAR.  |                                        |                                              |                                                   |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |
| 13... | --                                     | --                                           | --                                                | .30                                                  | .20                                       | .49                                       | .69                                                      | .99                                     | 4.4                                       | .32                                       |
| 28... | --                                     | --                                           | --                                                | .40                                                  | .27                                       | .65                                       | .92                                                      | 1.3                                     | 5.8                                       | .17                                       |
| APR.  |                                        |                                              |                                                   |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |
| 11... | --                                     | --                                           | --                                                | .47                                                  | .38                                       | .00                                       | .32                                                      | .79                                     | 3.5                                       | .34                                       |
| 23... | 34                                     | 7.5                                          | 4.5                                               | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        | --                                        |
| MAY   |                                        |                                              |                                                   |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |
| 06... | --                                     | --                                           | --                                                | 1.1                                                  | .03                                       | .73                                       | .76                                                      | 1.9                                     | 8.2                                       | .56                                       |
| 21... | --                                     | --                                           | --                                                | 1.6                                                  | .00                                       | 1.6                                       | 1.6                                                      | 3.2                                     | 14                                        | .66                                       |
| JUNE  |                                        |                                              |                                                   |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |
| 04... | --                                     | --                                           | --                                                | 1.3                                                  | .06                                       | 1.1                                       | 1.2                                                      | 2.5                                     | 11                                        | .68                                       |
| 14... | --                                     | --                                           | --                                                | .77                                                  | .03                                       | 1.1                                       | 1.1                                                      | 1.9                                     | 8.3                                       | .50                                       |
| JULY  |                                        |                                              |                                                   |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |
| 08... | 31                                     | 6.0                                          | 3.4                                               | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        | --                                        |
| 22... | --                                     | --                                           | --                                                | .49                                                  | .02                                       | .82                                       | .84                                                      | 1.3                                     | 5.9                                       | .33                                       |
| AUG.  |                                        |                                              |                                                   |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |
| 09... | --                                     | --                                           | --                                                | .45                                                  | .05                                       | .72                                       | .77                                                      | 1.2                                     | 5.4                                       | .29                                       |
| 20... | --                                     | --                                           | --                                                | .41                                                  | .04                                       | .66                                       | .70                                                      | 1.1                                     | 4.9                                       | .25                                       |
| SEP.  |                                        |                                              |                                                   |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |
| 03... | --                                     | --                                           | --                                                | .42                                                  | .03                                       | .72                                       | .75                                                      | 1.2                                     | 5.2                                       | .22                                       |
| 16... | --                                     | --                                           | --                                                | .44                                                  | .01                                       | .60                                       | .61                                                      | 1.1                                     | 4.6                                       | .19                                       |
| 30... | --                                     | --                                           | --                                                | .38                                                  | .05                                       | .42                                       | .47                                                      | .85                                     | 3.8                                       | .20                                       |

## YAZOO RIVER BASIN

07288800 YAZOO RIVER AT REDWOOD, MISS.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE  | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>190 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) |
|-------|------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|------------------------------------------------------|------------------------------------|---------------------------------------------------|-------------------|-----------------------------------------|------------------------------------------------------------|---------------|
| DEC.  |                                                                  |                                                    |                                                  |                                                      |                                    |                                                   |                   |                                         |                                                            |               |
| 07... | --                                                               | --                                                 | --                                               | --                                                   | --                                 | --                                                | --                | --                                      | 85                                                         | 5.8           |
| 17... | --                                                               | --                                                 | --                                               | --                                                   | --                                 | --                                                | --                | --                                      | 80                                                         | 6.1           |
| JAN.  |                                                                  |                                                    |                                                  |                                                      |                                    |                                                   |                   |                                         |                                                            |               |
| 30... | 56                                                               | .08                                                | --                                               | --                                                   | --                                 | --                                                | --                | --                                      | 73                                                         | 6.3           |
| FEB.  |                                                                  |                                                    |                                                  |                                                      |                                    |                                                   |                   |                                         |                                                            |               |
| 28... | 57                                                               | .08                                                | 10500                                            | 213                                                  | --                                 | --                                                | --                | --                                      | 66                                                         | 6.1           |
| MAR.  |                                                                  |                                                    |                                                  |                                                      |                                    |                                                   |                   |                                         |                                                            |               |
| 13... | 59                                                               | .08                                                | 8650                                             | 206                                                  | --                                 | --                                                | --                | --                                      | 74                                                         | 6.3           |
| 28... | 65                                                               | .09                                                | 4340                                             | 186                                                  | --                                 | --                                                | --                | --                                      | 73                                                         | 6.9           |
| APR.  |                                                                  |                                                    |                                                  |                                                      |                                    |                                                   |                   |                                         |                                                            |               |
| 11... | 62                                                               | .08                                                | --                                               | 72                                                   | --                                 | --                                                | --                | --                                      | 92                                                         | 6.4           |
| 23... | --                                                               | --                                                 | --                                               | --                                                   | 37                                 | 3                                                 | 19                | .3                                      | 109                                                        | 6.6           |
| MAY   |                                                                  |                                                    |                                                  |                                                      |                                    |                                                   |                   |                                         |                                                            |               |
| 06... | 70                                                               | .10                                                | --                                               | 276                                                  | --                                 | --                                                | --                | --                                      | 95                                                         | 6.6           |
| 21... | 102                                                              | .14                                                | --                                               | 592                                                  | --                                 | --                                                | --                | --                                      | 100                                                        | 6.6           |
| JUNE  |                                                                  |                                                    |                                                  |                                                      |                                    |                                                   |                   |                                         |                                                            |               |
| 04... | 72                                                               | .10                                                | --                                               | 80                                                   | --                                 | --                                                | --                | --                                      | 75                                                         | 6.4           |
| 14... | 59                                                               | .08                                                | --                                               | 320                                                  | --                                 | --                                                | --                | --                                      | 85                                                         | 6.1           |
| JULY  |                                                                  |                                                    |                                                  |                                                      |                                    |                                                   |                   |                                         |                                                            |               |
| 08... | --                                                               | --                                                 | --                                               | --                                                   | --                                 | --                                                | --                | --                                      | 90                                                         | 6.3           |
| 22... | 84                                                               | .11                                                | --                                               | 292                                                  | --                                 | --                                                | --                | --                                      | 120                                                        | 6.4           |
| AUG.  |                                                                  |                                                    |                                                  |                                                      |                                    |                                                   |                   |                                         |                                                            |               |
| 09... | 83                                                               | .11                                                | --                                               | 464                                                  | --                                 | --                                                | --                | --                                      | 120                                                        | 7.0           |
| 20... | 196                                                              | .27                                                | --                                               | 202                                                  | --                                 | --                                                | --                | --                                      | 150                                                        | 6.9           |
| SEP.  |                                                                  |                                                    |                                                  |                                                      |                                    |                                                   |                   |                                         |                                                            |               |
| 03... | 115                                                              | .16                                                | --                                               | 191                                                  | --                                 | --                                                | --                | --                                      | 140                                                        | 6.9           |
| 16... | 94                                                               | .13                                                | --                                               | 293                                                  | --                                 | --                                                | --                | --                                      | 108                                                        | 6.5           |
| 30... | 90                                                               | .12                                                | --                                               | 264                                                  | --                                 | --                                                | --                | --                                      | 125                                                        | 6.8           |

| DATE  | TEMPER-<br>ATURE<br>(DEG C) | TUR-<br>BID-<br>ITY<br>(JTU) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(HIGH<br>LEVEL)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) | CARBON<br>DIOXIDE<br>(CO2)<br>(MG/L) | CHLORO-<br>PHYLL A<br>(UG/L) | CHLORO-<br>PHYLL B<br>(UG/L) | IMME-<br>DIATE<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) |
|-------|-----------------------------|------------------------------|------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|--------------------------------------|------------------------------|------------------------------|------------------------------------------------------------|---------------------------------------------------|
| DEC.  |                             |                              |                                    |                                                                |                                                     |                                      |                              |                              |                                                            |                                                   |
| 07... | 13.0                        | --                           | 6.8                                | --                                                             | 1.5                                                 | --                                   | --                           | --                           | --                                                         | --                                                |
| 17... | 6.5                         | --                           | 9.6                                | --                                                             | --                                                  | --                                   | --                           | --                           | --                                                         | --                                                |
| JAN.  |                             |                              |                                    |                                                                |                                                     |                                      |                              |                              |                                                            |                                                   |
| 30... | 12.2                        | --                           | 7.8                                | 16                                                             | --                                                  | --                                   | --                           | --                           | --                                                         | --                                                |
| FEB.  |                             |                              |                                    |                                                                |                                                     |                                      |                              |                              |                                                            |                                                   |
| 28... | 11.0                        | 200                          | 9.8                                | 24                                                             | --                                                  | --                                   | 23                           | 30                           | 17500                                                      | 900                                               |
| MAR.  |                             |                              |                                    |                                                                |                                                     |                                      |                              |                              |                                                            |                                                   |
| 13... | 17.5                        | 100                          | 6.9                                | 30                                                             | --                                                  | --                                   | --                           | --                           | --                                                         | --                                                |
| 28... | 15.0                        | 200                          | 7.8                                | 24                                                             | --                                                  | --                                   | 23                           | 30                           | --                                                         | --                                                |
| APR.  |                             |                              |                                    |                                                                |                                                     |                                      |                              |                              |                                                            |                                                   |
| 11... | 17.0                        | 300                          | 7.0                                | 28                                                             | --                                                  | --                                   | 23                           | 30                           | --                                                         | --                                                |
| 23... | 20.0                        | --                           | 6.2                                | 28                                                             | 2.3                                                 | 17                                   | --                           | --                           | --                                                         | --                                                |
| MAY   |                             |                              |                                    |                                                                |                                                     |                                      |                              |                              |                                                            |                                                   |
| 06... | 22.5                        | 200                          | 6.3                                | 36                                                             | --                                                  | --                                   | 17                           | 36                           | --                                                         | --                                                |
| 21... | 25.0                        | 300                          | 4.7                                | 40                                                             | --                                                  | --                                   | 12                           | 21                           | --                                                         | --                                                |
| JUNE  |                             |                              |                                    |                                                                |                                                     |                                      |                              |                              |                                                            |                                                   |
| 04... | 26.0                        | 200                          | 4.6                                | 32                                                             | --                                                  | --                                   | --                           | --                           | --                                                         | --                                                |
| 14... | 14.0                        | 60                           | 6.3                                | 47                                                             | --                                                  | --                                   | 76                           | 140                          | --                                                         | --                                                |
| JULY  |                             |                              |                                    |                                                                |                                                     |                                      |                              |                              |                                                            |                                                   |
| 08... | 27.0                        | --                           | 4.3                                | --                                                             | --                                                  | 30                                   | --                           | --                           | --                                                         | --                                                |
| 22... | 29.0                        | 40                           | 5.5                                | 52                                                             | --                                                  | --                                   | --                           | --                           | --                                                         | --                                                |
| AUG.  |                             |                              |                                    |                                                                |                                                     |                                      |                              |                              |                                                            |                                                   |
| 09... | 27.0                        | 200                          | 5.4                                | 22                                                             | --                                                  | --                                   | --                           | --                           | --                                                         | --                                                |
| 20... | 28.0                        | 90                           | 5.7                                | 22                                                             | --                                                  | --                                   | --                           | --                           | --                                                         | --                                                |
| SEP.  |                             |                              |                                    |                                                                |                                                     |                                      |                              |                              |                                                            |                                                   |
| 03... | 25.0                        | 100                          | 5.9                                | 16                                                             | --                                                  | --                                   | --                           | --                           | --                                                         | --                                                |
| 16... | 26.0                        | 100                          | 6.2                                | 22                                                             | --                                                  | --                                   | --                           | --                           | --                                                         | --                                                |
| 30... | 21.0                        | 7                            | 7.4                                | 16                                                             | --                                                  | --                                   | --                           | --                           | --                                                         | --                                                |

07288800 YAZOO RIVER AT REDWOOD, MISS.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE  | STREP-<br>TOCOCCI<br>(COL-<br>ONIFS<br>PER<br>100 ML) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | PHENOLS<br>(UG/L) | OIL<br>AND<br>GREASE<br>(MG/L) | TOTAL<br>ARSENIC<br>(AS)<br>(UG/L) | TOTAL<br>CAD-<br>MIUM<br>(CD)<br>(UG/L) | TOTAL<br>CHRO-<br>MIUM<br>(CR)<br>(UG/L) | TOTAL<br>LEAD<br>(PB)<br>(UG/L) | TOTAL<br>MERCURY<br>(HG)<br>(UG/L) | TOTAL<br>ZINC<br>(ZN)<br>(UG/L) |
|-------|-------------------------------------------------------|---------------------------------------------|-------------------|--------------------------------|------------------------------------|-----------------------------------------|------------------------------------------|---------------------------------|------------------------------------|---------------------------------|
| DEC.  |                                                       |                                             |                   |                                |                                    |                                         |                                          |                                 |                                    |                                 |
| 07... | --                                                    | --                                          | --                | --                             | --                                 | --                                      | --                                       | --                              | --                                 | --                              |
| 17... | --                                                    | --                                          | --                | --                             | --                                 | --                                      | --                                       | --                              | --                                 | --                              |
| JAN.  |                                                       |                                             |                   |                                |                                    |                                         |                                          |                                 |                                    |                                 |
| 30... | --                                                    | 7.7                                         | 5                 | --                             | --                                 | --                                      | --                                       | --                              | --                                 | --                              |
| FEB.  |                                                       |                                             |                   |                                |                                    |                                         |                                          |                                 |                                    |                                 |
| 28... | 204                                                   | 7.0                                         | --                | --                             | --                                 | --                                      | --                                       | --                              | --                                 | --                              |
| MAR.  |                                                       |                                             |                   |                                |                                    |                                         |                                          |                                 |                                    |                                 |
| 13... | --                                                    | 9.1                                         | --                | 0                              | --                                 | --                                      | --                                       | --                              | --                                 | --                              |
| 28... | --                                                    | 8.0                                         | --                | 1                              | --                                 | --                                      | --                                       | --                              | --                                 | --                              |
| APR.  |                                                       |                                             |                   |                                |                                    |                                         |                                          |                                 |                                    |                                 |
| 11... | --                                                    | 16                                          | --                | 2                              | --                                 | --                                      | --                                       | --                              | --                                 | --                              |
| 23... | --                                                    | 12                                          | --                | 3                              | 7                                  | 1                                       | 0                                        | 9                               | .2                                 | 50                              |
| MAY   |                                                       |                                             |                   |                                |                                    |                                         |                                          |                                 |                                    |                                 |
| 06... | --                                                    | 18                                          | --                | 2                              | --                                 | --                                      | --                                       | --                              | --                                 | --                              |
| 21... | --                                                    | --                                          | --                | 2                              | --                                 | --                                      | --                                       | --                              | --                                 | --                              |
| JUNE  |                                                       |                                             |                   |                                |                                    |                                         |                                          |                                 |                                    |                                 |
| 04... | --                                                    | 11                                          | --                | 1                              | --                                 | --                                      | --                                       | --                              | --                                 | --                              |
| 14... | --                                                    | 12                                          | --                | 2                              | --                                 | --                                      | --                                       | --                              | --                                 | --                              |
| JULY  |                                                       |                                             |                   |                                |                                    |                                         |                                          |                                 |                                    |                                 |
| 08... | --                                                    | --                                          | --                | 2                              | 9                                  | 4                                       | 30                                       | 42                              | .1                                 | 110                             |
| 22... | --                                                    | 8.8                                         | --                | 2                              | --                                 | --                                      | --                                       | --                              | --                                 | --                              |
| AUG.  |                                                       |                                             |                   |                                |                                    |                                         |                                          |                                 |                                    |                                 |
| 09... | --                                                    | 6.9                                         | --                | 0                              | --                                 | --                                      | --                                       | --                              | --                                 | --                              |
| 20... | --                                                    | 6.2                                         | --                | 1                              | --                                 | --                                      | --                                       | --                              | --                                 | --                              |
| SEP.  |                                                       |                                             |                   |                                |                                    |                                         |                                          |                                 |                                    |                                 |
| 03... | --                                                    | 8.4                                         | --                | 0                              | --                                 | --                                      | --                                       | --                              | --                                 | --                              |
| 16... | --                                                    | 5.1                                         | --                | 0                              | --                                 | --                                      | --                                       | --                              | --                                 | --                              |
| 30... | --                                                    | 7.1                                         | --                | 0                              | --                                 | --                                      | --                                       | --                              | --                                 | --                              |

## MISSISSIPPI RIVER MAIN STEM

07289000 MISSISSIPPI RIVER AT VICKSBURG, MISS.  
(National stream-quality accounting network)

LOCATION.--Lat 32°18'45", long 90°54'25", in T.16 N., R.3 E., Washington meridian, Warren County, at gaging station at combined highway and railway bridge of Vicksburg Bridge Commission of Warren County, at southern city limits of Vicksburg, 1.5 miles (2.4 km) downstream from Yazoo diversion canal and at mile 430.4 (692.5 km).

DRAINAGE AREA.--1,144,500 mi<sup>2</sup> (2,964,300 km<sup>2</sup>), approximately.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE          | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | DIS-<br>SOLVED<br>SILICA<br>(SI02)<br>(MG/L) | TOTAL<br>IRON<br>(FE)<br>(UG/L) | DIS-<br>SOLVED<br>IRON<br>(FE)<br>(UG/L) | TOTAL<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | SUS-<br>PENDE<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) |
|---------------|------|-----------------------------------------------|----------------------------------------------|---------------------------------|------------------------------------------|-------------------------------------------|---------------------------------------------------|----------------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------|--------------------------------------------------------|
| OCT.<br>04... | 1030 | 350000                                        | 5.3                                          | 3900                            | 40                                       | 230                                       | 200                                               | 33                                                 | 46                                               | 16                                            | 26                                         | 3.1                                                    |
| NOV.<br>01... | 1100 | 516000                                        | 8.9                                          | 8700                            | 40                                       | 270                                       | 270                                               | 0                                                  | 41                                               | 13                                            | 16                                         | 4.1                                                    |
| DEC.<br>04... | 1200 | 1050000                                       | 6.7                                          | 5800                            | 0                                        | 470                                       | 470                                               | 0                                                  | 33                                               | 10                                            | 18                                         | 5.8                                                    |
| 17...         | 1300 | 1260000                                       | --                                           | --                              | --                                       | --                                        | --                                                | --                                                 | --                                               | --                                            | --                                         | --                                                     |
| JAN.<br>15... | 1400 | 1280000                                       | 6.6                                          | 4500                            | 750                                      | 200                                       | 180                                               | 17                                                 | 30                                               | 8.5                                           | 11                                         | 2.5                                                    |
| 30...         | 1330 | 1410000                                       | --                                           | --                              | --                                       | --                                        | --                                                | --                                                 | --                                               | --                                            | --                                         | --                                                     |
| MAR.<br>12... | 1230 | 965000                                        | 7.1                                          | --                              | --                                       | --                                        | --                                                | --                                                 | 36                                               | 11                                            | 14                                         | 3.1                                                    |
| APR.<br>10... | 1400 | 1000000                                       | 6.5                                          | --                              | --                                       | --                                        | --                                                | --                                                 | 38                                               | 10                                            | 13                                         | 2.4                                                    |
| MAY<br>07...  | 1400 | 1910000                                       | 6.8                                          | --                              | --                                       | --                                        | --                                                | --                                                 | 38                                               | 11                                            | 18                                         | 2.7                                                    |
| JUNE<br>05... | 1400 | 1040000                                       | 6.6                                          | --                              | --                                       | --                                        | --                                                | --                                                 | 36                                               | 11                                            | 19                                         | 3.0                                                    |
| JULY<br>09... | 1200 | 900000                                        | 6.4                                          | 8800                            | 90                                       | 290                                       | 290                                               | 0                                                  | 34                                               | 11                                            | 13                                         | 3.0                                                    |
| AUG.<br>15... | 1200 | 334000                                        | .3                                           | --                              | --                                       | --                                        | --                                                | --                                                 | 47                                               | 15                                            | 20                                         | 2.9                                                    |
| SEP.<br>06... | 1200 | 480000                                        | 4.3                                          | --                              | --                                       | --                                        | --                                                | --                                                 | 42                                               | 13                                            | 24                                         | 3.0                                                    |

| DATE          | BICAR-<br>BONATE<br>(HCO3)<br>(MG/L) | CAR-<br>BONATE<br>(CO3)<br>(MG/L) | ALKA-<br>LITY<br>AS<br>CAC03<br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>FLUO-<br>RIDE<br>(F)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) |
|---------------|--------------------------------------|-----------------------------------|----------------------------------------|----------------------------------------------|---------------------------------------------------|--------------------------------------------------|------------------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------------|-------------------------------------------|------------------------------------------------------------------|
| OCT.<br>04... | 161                                  | 0                                 | 132                                    | 59                                           | 29                                                | .3                                               | --                                                   | --                                                       | --                                      | --                                        | --                                        | 271                                                              |
| NOV.<br>01... | 146                                  | 0                                 | 120                                    | 43                                           | 18                                                | .3                                               | --                                                   | --                                                       | --                                      | --                                        | --                                        | 216                                                              |
| DEC.<br>04... | 95                                   | 0                                 | 78                                     | 45                                           | 17                                                | .3                                               | .95                                                  | .69                                                      | 1.6                                     | 7.3                                       | .51                                       | 206                                                              |
| 17...         | --                                   | --                                | --                                     | --                                           | --                                                | --                                               | --                                                   | --                                                       | --                                      | --                                        | --                                        | --                                                               |
| JAN.<br>15... | 90                                   | 0                                 | 74                                     | 33                                           | 12                                                | .0                                               | 1.3                                                  | .39                                                      | 1.7                                     | 7.5                                       | .08                                       | 170                                                              |
| 30...         | --                                   | --                                | --                                     | --                                           | 12                                                | --                                               | 1.1                                                  | .24                                                      | 1.3                                     | 5.9                                       | .23                                       | 154                                                              |
| MAR.<br>12... | 118                                  | 0                                 | 97                                     | 39                                           | 16                                                | .4                                               | --                                                   | --                                                       | --                                      | --                                        | --                                        | 212                                                              |
| APR.<br>10... | 120                                  | 0                                 | 98                                     | 41                                           | 15                                                | .4                                               | 1.3                                                  | .28                                                      | 1.6                                     | 7.0                                       | .20                                       | 206                                                              |
| MAY<br>07...  | 131                                  | --                                | 107                                    | 45                                           | 19                                                | .3                                               | 1.6                                                  | .33                                                      | 1.9                                     | 8.5                                       | .30                                       | 240                                                              |
| JUNE<br>05... | 143                                  | 0                                 | 117                                    | 39                                           | 17                                                | .2                                               | 2.0                                                  | 1.2                                                      | 3.2                                     | 14                                        | .36                                       | 195                                                              |
| JULY<br>09... | 118                                  | 0                                 | 97                                     | 39                                           | 12                                                | .2                                               | 1.9                                                  | 1.4                                                      | 3.3                                     | 15                                        | .26                                       | 232                                                              |
| AUG.<br>15... | 171                                  | 0                                 | 140                                    | 53                                           | 17                                                | .2                                               | .82                                                  | .74                                                      | 1.6                                     | 6.9                                       | .14                                       | 256                                                              |
| SEP.<br>06... | 139                                  | 0                                 | 114                                    | 57                                           | 21                                                | .3                                               | .78                                                  | .55                                                      | 1.3                                     | 5.9                                       | .21                                       | 250                                                              |

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

## MISSISSIPPI RIVER MAIN STEM

07289000 MISSISSIPPI RIVER AT VICKSBURG, MISS.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE          | SUS-<br>PENDE<br>D LEAD<br>(PB)<br>(UG/L) | DIS-<br>SOLVED<br>LEAD<br>(PB)<br>(UG/L) | TOTAL<br>MERCURY<br>(HG)<br>(UG/L) | SUS-<br>PENDE<br>D MERCURY<br>(HG)<br>(UG/L) | DIS-<br>SOLVED<br>MERCURY<br>(HG)<br>(UG/L) | TOTAL<br>SELE-<br>NIUM<br>(SE)<br>(UG/L) | SUS-<br>PENDE<br>D SELE-<br>NIUM<br>(SE)<br>(UG/L) |
|---------------|-------------------------------------------|------------------------------------------|------------------------------------|----------------------------------------------|---------------------------------------------|------------------------------------------|----------------------------------------------------|
| OCT.<br>04... | 6                                         | 8                                        | --                                 | --                                           | .0                                          | 3                                        | 0                                                  |
| NOV.<br>01... | 20                                        | 17                                       | --                                 | --                                           | .0                                          | 4                                        | 0                                                  |
| DEC.<br>04... | 5                                         | 4                                        | .4                                 | .0                                           | .4                                          | 2                                        | 0                                                  |
| JAN.<br>15... | 16                                        | 13                                       | .1                                 | .1                                           | .0                                          | 0                                        | 0                                                  |
| APR.<br>10... | --                                        | --                                       | --                                 | --                                           | --                                          | --                                       | --                                                 |
| MAY<br>07...  | --                                        | --                                       | --                                 | --                                           | --                                          | --                                       | --                                                 |
| JUNE<br>05... | --                                        | --                                       | --                                 | --                                           | --                                          | --                                       | --                                                 |
| JULY<br>09... | 51                                        | 29                                       | .2                                 | .1                                           | .1                                          | 3                                        | 0                                                  |
| SEP.<br>06... | --                                        | --                                       | --                                 | --                                           | --                                          | --                                       | --                                                 |

| DATE          | DIS-<br>SOLVED<br>SELE-<br>NIUM<br>(SE)<br>(UG/L) | TOTAL<br>ZINC<br>(ZN)<br>(UG/L) | SUS-<br>PENDE<br>D ZINC<br>(ZN)<br>(UG/L) | DIS-<br>SOLVED<br>ZINC<br>(ZN)<br>(UG/L) | SUS-<br>PENDE<br>D SEDI-<br>MENT<br>(MG/L) | SUS-<br>PENDE<br>D SEDI-<br>MENT<br>DIS-<br>CHARGE<br>(T/DAY) |
|---------------|---------------------------------------------------|---------------------------------|-------------------------------------------|------------------------------------------|--------------------------------------------|---------------------------------------------------------------|
| OCT.<br>04... | 3                                                 | 9                               | 0                                         | 9                                        | 129                                        | 122000                                                        |
| NOV.<br>01... | 6                                                 | 100                             | 80                                        | 20                                       | 429                                        | 598000                                                        |
| DEC.<br>04... | 2                                                 | 60                              | 30                                        | 30                                       | 164                                        | 465000                                                        |
| JAN.<br>15... | 7                                                 | 100                             | 40                                        | 60                                       | --                                         | --                                                            |
| APR.<br>10... | --                                                | --                              | --                                        | --                                       | 223                                        | 602000                                                        |
| MAY<br>07...  | --                                                | --                              | --                                        | --                                       | 403                                        | 2070000                                                       |
| JUNE<br>05... | --                                                | --                              | --                                        | --                                       | 485                                        | 1360000                                                       |
| JULY<br>09... | 3                                                 | 190                             | 170                                       | 20                                       | 400                                        | 972000                                                        |
| SEP.<br>06... | --                                                | --                              | --                                        | --                                       | 275                                        | 356000                                                        |



TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

## MOBILE RIVER BASIN

02431000 - TOMBIGBEE RIVER NEAR FULTON, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE          | TIME                                                             | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS)                       | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L)    | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG) | BICAR-<br>BONATE<br>(HCO3)                               | CAR-<br>BONATE<br>(CO3)                                    | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L)    | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L)            | TOTAL<br>NITRATE<br>(N)<br>(MG/L)                            |
|---------------|------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------|----------------------------------------------------------|------------------------------------------------------------|---------------------------------------------|----------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|
| JULY<br>23... | 1400                                                             | 371                                                            | 7.5                                                 | 1.4                                           | 26                                                       | 0                                                          | 21                                          | 5.5                                          | 3.2                                                          | .22                                                          |
| SEP.<br>25... | 1330                                                             | 178                                                            | --                                                  | --                                            | --                                                       | --                                                         | --                                          | --                                           | --                                                           | --                                                           |
| DATE          | TOTAL<br>NITRITE<br>(N)<br>(MG/L)                                | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L)           | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L)           | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L)     | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L)                    | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L)   | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L)    | DIS-<br>SOLVED<br>ORTHO.<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHO<br>PHOS-<br>PHATE<br>(PO4)<br>(MG/L) |
| JULY<br>23... | .01                                                              | .23                                                            | .09                                                 | .71                                           | .80                                                      | 1.0                                                        | 4.6                                         | .19                                          | .01                                                          | .03                                                          |
| SEP.<br>25... | --                                                               | .08                                                            | .06                                                 | .43                                           | .49                                                      | .57                                                        | 2.5                                         | .10                                          | --                                                           | --                                                           |
| DATE          | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT)             | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY)    | HARD-<br>NESS<br>(CA+MG)<br>(MG/L)            | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L)        | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS)                               | TEMPER-<br>ATURE<br>(DEG C)                  | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)                 | TUR-<br>BID-<br>ITY<br>(JTU)                                 |
| JULY<br>23... | 51                                                               | .07                                                            | 51.1                                                | 25                                            | 3                                                        | 65                                                         | 6.0                                         | 25.0                                         | 90                                                           | 100                                                          |
| SEP.<br>25... | 52                                                               | .07                                                            | 25.0                                                | --                                            | --                                                       | 63                                                         | 6.6                                         | 17.5                                         | --                                                           | 30                                                           |
| DATE          | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L)                               | CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(HIGH<br>LEVEL)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) | CARBON<br>DIOXIDE<br>(CO2)<br>(MG/L)          | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML)        | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML)      | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | PHENOLS<br>(UG/L)                            | SUS-<br>PENDE<br>SEDI-<br>MENT<br>(MG/L)                     | SUS-<br>PENDE<br>SEDI-<br>MENT<br>DIS-<br>CHARGE<br>(T/DAY)  |
| JULY<br>23... | 6.9                                                              | 39                                                             | 1.4                                                 | 42                                            | --                                                       | --                                                         | 8.6                                         | 0                                            | --                                                           | --                                                           |
| SEP.<br>25... | 8.8                                                              | 12                                                             | --                                                  | --                                            | 864000                                                   | 556                                                        | 14                                          | --                                           | 78                                                           | 37                                                           |

02435020 - TOWN CREEK AT EASON BOULEVARD AT TUPELO, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE  | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) |
|-------|------|------------------------------------------|--------------------------------------------------|-----------------------------------------------|------------------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------------|
| DEC.  |      |                                          |                                                  |                                               |                                                      |                                           |                                           |                                                          |                                         |                                           |
| 05... | 1500 | 392                                      | --                                               | --                                            | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| JAN.  |      |                                          |                                                  |                                               |                                                      |                                           |                                           |                                                          |                                         |                                           |
| 10... | 0900 | 2680                                     | --                                               | --                                            | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| 15... | 1400 | 2180                                     | --                                               | --                                            | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| FEB.  |      |                                          |                                                  |                                               |                                                      |                                           |                                           |                                                          |                                         |                                           |
| 27... | 1400 | 215                                      | 26                                               | 1.5                                           | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| MAR.  |      |                                          |                                                  |                                               |                                                      |                                           |                                           |                                                          |                                         |                                           |
| 28... | 1220 | 226                                      | --                                               | --                                            | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| MAY   |      |                                          |                                                  |                                               |                                                      |                                           |                                           |                                                          |                                         |                                           |
| 06... | 0915 | 163                                      | --                                               | --                                            | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| JUNE  |      |                                          |                                                  |                                               |                                                      |                                           |                                           |                                                          |                                         |                                           |
| 25... | 0730 | 50                                       | --                                               | --                                            | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| 25... | 0800 | 50                                       | --                                               | --                                            | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| 25... | 0900 | 50                                       | --                                               | --                                            | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| 25... | 1000 | 50                                       | --                                               | --                                            | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| 25... | 1500 | 50                                       | --                                               | --                                            | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| 26... | 0820 | 50                                       | --                                               | --                                            | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| 26... | 0955 | 48                                       | --                                               | --                                            | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| 26... | 1300 | 46                                       | --                                               | --                                            | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| 26... | 1615 | 44                                       | --                                               | --                                            | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| 26... | 1845 | 43                                       | --                                               | --                                            | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| 26... | 2200 | 44                                       | --                                               | --                                            | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| 26-27 | --   | --                                       | --                                               | --                                            | .21                                                  | .25                                       | .51                                       | .76                                                      | .97                                     | 4.3                                       |
| 27... | 0105 | 43                                       | --                                               | --                                            | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| 27... | 0320 | 43                                       | --                                               | --                                            | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| SEP.  |      |                                          |                                                  |                                               |                                                      |                                           |                                           |                                                          |                                         |                                           |
| 25... | 1200 | 29                                       | --                                               | --                                            | .17                                                  | 2.3                                       | 1.1                                       | 3.4                                                      | 3.6                                     | 16                                        |

| DATE  | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>ORTHO<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | TUR-<br>BID-<br>ITY<br>(JTU) |
|-------|-------------------------------------------|----------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------|
| DEC.  |                                           |                                                    |                                                                  |                                                    |                                                  |                                    |                                                            |               |                             |                              |
| 05... | --                                        | --                                                 | --                                                               | --                                                 | --                                               | --                                 | 170                                                        | 7.4           | 12.2                        | --                           |
| JAN.  |                                           |                                                    |                                                                  |                                                    |                                                  |                                    |                                                            |               |                             |                              |
| 10... | --                                        | --                                                 | --                                                               | --                                                 | --                                               | --                                 | --                                                         | 7.3           | 10.0                        | --                           |
| 15... | --                                        | --                                                 | --                                                               | --                                                 | --                                               | --                                 | 115                                                        | 7.2           | 12.0                        | --                           |
| FEB.  |                                           |                                                    |                                                                  |                                                    |                                                  |                                    |                                                            |               |                             |                              |
| 27... | --                                        | --                                                 | 112                                                              | .15                                                | 65.0                                             | 71                                 | 180                                                        | 7.4           | 7.5                         | --                           |
| MAR.  |                                           |                                                    |                                                                  |                                                    |                                                  |                                    |                                                            |               |                             |                              |
| 28... | --                                        | --                                                 | --                                                               | --                                                 | --                                               | --                                 | 240                                                        | 6.7           | 15.0                        | --                           |
| MAY   |                                           |                                                    |                                                                  |                                                    |                                                  |                                    |                                                            |               |                             |                              |
| 06... | --                                        | --                                                 | --                                                               | --                                                 | --                                               | --                                 | --                                                         | --            | --                          | --                           |
| JUNE  |                                           |                                                    |                                                                  |                                                    |                                                  |                                    |                                                            |               |                             |                              |
| 25... | --                                        | --                                                 | --                                                               | --                                                 | --                                               | --                                 | --                                                         | --            | 18.0                        | --                           |
| 25... | --                                        | --                                                 | --                                                               | --                                                 | --                                               | --                                 | --                                                         | --            | 18.0                        | --                           |
| 25... | --                                        | --                                                 | --                                                               | --                                                 | --                                               | --                                 | --                                                         | --            | 18.0                        | --                           |
| 25... | --                                        | --                                                 | --                                                               | --                                                 | --                                               | --                                 | --                                                         | --            | 19.0                        | --                           |
| 25... | --                                        | --                                                 | --                                                               | --                                                 | --                                               | --                                 | --                                                         | --            | 24.0                        | --                           |
| 26... | --                                        | --                                                 | --                                                               | --                                                 | --                                               | --                                 | 420                                                        | 7.1           | 18.0                        | --                           |
| 26... | --                                        | --                                                 | --                                                               | --                                                 | --                                               | --                                 | 350                                                        | 7.5           | 20.0                        | --                           |
| 26... | --                                        | --                                                 | --                                                               | --                                                 | --                                               | --                                 | 300                                                        | 7.6           | 25.0                        | --                           |
| 26... | --                                        | --                                                 | --                                                               | --                                                 | --                                               | --                                 | 300                                                        | 7.7           | 26.5                        | --                           |
| 26... | --                                        | --                                                 | --                                                               | --                                                 | --                                               | --                                 | 300                                                        | 7.7           | 24.0                        | --                           |
| 26... | --                                        | --                                                 | --                                                               | --                                                 | --                                               | --                                 | 300                                                        | 7.6           | 22.0                        | --                           |
| 26-27 | .16                                       | .14                                                | --                                                               | --                                                 | --                                               | --                                 | --                                                         | --            | --                          | --                           |
| 27... | --                                        | --                                                 | --                                                               | --                                                 | --                                               | --                                 | 300                                                        | 7.3           | 20.0                        | --                           |
| 27... | --                                        | --                                                 | --                                                               | --                                                 | --                                               | --                                 | 280                                                        | 7.4           | 20.0                        | --                           |
| SEP.  |                                           |                                                    |                                                                  |                                                    |                                                  |                                    |                                                            |               |                             |                              |
| 25... | 1.4                                       | --                                                 | 298                                                              | .41                                                | 23.5                                             | --                                 | 400                                                        | 7.1           | 17.0                        | 30                           |

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

02435020 - TOWN CREEK AT EASON BOULEVARD AT TUPELO, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE  | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(HIGH<br>LEVEL)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) | IMME-<br>DIATE<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | SUS-<br>PENDE<br>SEDI-<br>MENT<br>(MG/L) | SUS-<br>PENDE<br>SEDI-<br>MENT<br>DIS-<br>CHARGE<br>(T/DAY) |
|-------|------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|---------------------------------------------|------------------------------------------|-------------------------------------------------------------|
| DEC.  |                                    |                                                                |                                                     |                                                            |                                                   |                                                       |                                             |                                          |                                                             |
| 05... | 9.9                                | --                                                             | 2.5                                                 | --                                                         | --                                                | --                                                    | --                                          | --                                       | --                                                          |
| JAN.  |                                    |                                                                |                                                     |                                                            |                                                   |                                                       |                                             |                                          |                                                             |
| 10... | 10.5                               | --                                                             | 4.0                                                 | 300000                                                     | 35000                                             | 15000                                                 | --                                          | --                                       | --                                                          |
| 15... | 11.1                               | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                                       | --                                                          |
| FEB.  |                                    |                                                                |                                                     |                                                            |                                                   |                                                       |                                             |                                          |                                                             |
| 27... | 12.2                               | --                                                             | 1.7                                                 | --                                                         | --                                                | --                                                    | --                                          | --                                       | --                                                          |
| MAR.  |                                    |                                                                |                                                     |                                                            |                                                   |                                                       |                                             |                                          |                                                             |
| 28... | 9.7                                | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                                       | --                                                          |
| MAY   |                                    |                                                                |                                                     |                                                            |                                                   |                                                       |                                             |                                          |                                                             |
| 06... | --                                 | --                                                             | 1.3                                                 | --                                                         | --                                                | --                                                    | --                                          | --                                       | --                                                          |
| JUNE  |                                    |                                                                |                                                     |                                                            |                                                   |                                                       |                                             |                                          |                                                             |
| 25... | 6.5                                | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                                       | --                                                          |
| 25... | 7.0                                | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                                       | --                                                          |
| 25... | 8.5                                | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                                       | --                                                          |
| 25... | 8.5                                | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                                       | --                                                          |
| 25... | 8.7                                | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                                       | --                                                          |
| 26... | 8.6                                | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                                       | --                                                          |
| 26... | 8.5                                | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                                       | --                                                          |
| 26... | 7.9                                | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                                       | --                                                          |
| 26... | 7.1                                | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                                       | --                                                          |
| 26... | 8.1                                | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                                       | --                                                          |
| 26... | 7.2                                | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                                       | --                                                          |
| 26-27 | --                                 | --                                                             | 4.0                                                 | --                                                         | --                                                | --                                                    | --                                          | --                                       | --                                                          |
| 27... | 6.5                                | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                                       | --                                                          |
| 27... | 6.1                                | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                                       | --                                                          |
| SEP.  |                                    |                                                                |                                                     |                                                            |                                                   |                                                       |                                             |                                          |                                                             |
| 25... | 8.1                                | 41                                                             | --                                                  | --                                                         | 842000                                            | 4100                                                  | 15                                          | 69                                       | 5.4                                                         |

02435900 - CALLOWAY CREEK NEAR PONTOTOC, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | DIS-<br>SOLVED<br>SILICA<br>(SI02)<br>(MG/L) | DIS-<br>SOLVED<br>IRON<br>(FE)<br>(UG/L) | DIS-<br>SOLVED<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | BICAR-<br>BONATE<br>(HCO3)<br>(MG/L) |
|-------|------|-----------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------------|--------------------------------------------------|---------------------------------------------------------|--------------------------------------------|--------------------------------------------------------|--------------------------------------|
| OCT.  |      |                                               |                                              |                                          |                                                    |                                                  |                                                         |                                            |                                                        |                                      |
| 24... | 1600 | 1.5                                           | 4.6                                          | 0                                        | 0                                                  | 32                                               | 2.0                                                     | 2.8                                        | 3.1                                                    | 104                                  |

| DATE  | CAR-<br>BONATE<br>(CO3)<br>(MG/L) | ALKA-<br>LINIT<br>AS<br>CAC03<br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>FLUO-<br>RIDE<br>(F)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHO-<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHO-<br>PHOS-<br>PHATE<br>(P04)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(SUM OF<br>CONSTI-<br>TUENTS)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) |
|-------|-----------------------------------|-----------------------------------------|----------------------------------------------|---------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------|
| OCT.  |                                   |                                         |                                              |                                                   |                                                  |                                                               |                                                              |                                                               |                                                                     |                                                    |
| 24... | 0                                 | 85                                      | 6.2                                          | 3.8                                               | .4                                               | 1.0                                                           | .00                                                          | .00                                                           | 111                                                                 | .15                                                |

| DATE  | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | CARBON<br>DIOXIDE<br>(CO2)<br>(MG/L) |
|-------|--------------------------------------------------|------------------------------------|---------------------------------------------------|-------------------|-----------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|--------------------------------------|
| OCT.  |                                                  |                                    |                                                   |                   |                                         |                                                            |               |                             |                                    |                                      |
| 24... | .45                                              | 88                                 | 3                                                 | 6                 | .1                                      | 175                                                        | 7.8           | 21.0                        | 7.8                                | 2.6                                  |

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

209

02436500 - TOWN CREEK NEAR NETTLETON, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE  | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG) | BICAR-<br>BONATE<br>(HCO3)<br>(MG/L) | CAR-<br>BONATE<br>(CO3)<br>(MG/L) | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | TOTAL<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>NITRITE<br>(N)<br>(MG/L) |
|-------|------|------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------|-----------------------------------|------------------------------------------|----------------------------------------------|---------------------------------------------------|-----------------------------------|-----------------------------------|
| JUNE  |      |                                          |                                                  |                                               |                                      |                                   |                                          |                                              |                                                   |                                   |                                   |
| 26... | 0650 | 195                                      | --                                               | --                                            | --                                   | --                                | --                                       | --                                           | --                                                | --                                | --                                |
| 26... | 1010 | 154                                      | --                                               | --                                            | --                                   | --                                | --                                       | --                                           | --                                                | --                                | --                                |
| 26... | 1425 | 153                                      | --                                               | --                                            | --                                   | --                                | --                                       | --                                           | --                                                | --                                | --                                |
| 26... | 1630 | 152                                      | --                                               | --                                            | --                                   | --                                | --                                       | --                                           | --                                                | --                                | --                                |
| 26... | 2115 | 150                                      | --                                               | --                                            | --                                   | --                                | --                                       | --                                           | --                                                | --                                | --                                |
| 26... | 2250 | 149                                      | --                                               | --                                            | --                                   | --                                | --                                       | --                                           | --                                                | --                                | --                                |
| 26-27 | --   | --                                       | --                                               | --                                            | --                                   | --                                | --                                       | --                                           | --                                                | --                                | --                                |
| 27... | 0115 | 148                                      | --                                               | --                                            | --                                   | --                                | --                                       | --                                           | --                                                | --                                | --                                |
| 27... | 0310 | 147                                      | --                                               | --                                            | --                                   | --                                | --                                       | --                                           | --                                                | --                                | --                                |
| JULY  |      |                                          |                                                  |                                               |                                      |                                   |                                          |                                              |                                                   |                                   |                                   |
| 24... | 0900 | 794                                      | 32                                               | 1.6                                           | 109                                  | 0                                 | 89                                       | 20                                           | 11                                                | .88                               | .06                               |
| SEP.  |      |                                          |                                                  |                                               |                                      |                                   |                                          |                                              |                                                   |                                   |                                   |
| 25... | 1515 | 89                                       | --                                               | --                                            | --                                   | --                                | --                                       | --                                           | --                                                | --                                | --                                |

| DATE  | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>ORTHO<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHO<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHO<br>PHOS-<br>PHATE<br>(PO4)<br>(MG/L) |
|-------|------------------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------|
| JUNE  |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                             |                                                              |
| 26... | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        | --                                        | --                                                 | --                                                          | --                                                           |
| 26... | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        | --                                        | --                                                 | --                                                          | --                                                           |
| 26... | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        | --                                        | --                                                 | --                                                          | --                                                           |
| 26... | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        | --                                        | --                                                 | --                                                          | --                                                           |
| 26... | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        | --                                        | --                                                 | --                                                          | --                                                           |
| 26-27 | .00                                                  | .00                                       | 1.0                                       | 1.0                                                      | 1.0                                     | 4.4                                       | .09                                       | .03                                                | --                                                          | --                                                           |
| 27... | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        | --                                        | --                                                 | --                                                          | --                                                           |
| 27... | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        | --                                        | --                                                 | --                                                          | --                                                           |
| JULY  |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                             |                                                              |
| 24... | .94                                                  | .64                                       | 1.5                                       | 2.1                                                      | 3.0                                     | 13                                        | .69                                       | --                                                 | .20                                                         | .61                                                          |
| SEP.  |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                             |                                                              |
| 25... | .29                                                  | .09                                       | .82                                       | .91                                                      | 1.2                                     | 5.3                                       | .32                                       | --                                                 | --                                                          | --                                                           |

| DATE  | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) |
|-------|------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|------------------------------------|---------------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|----------------------------------------------|------------------------------|
| JUNE  |                                                                  |                                                    |                                                  |                                    |                                                   |                                                            |               |                             |                                              |                              |
| 26... | --                                                               | --                                                 | --                                               | --                                 | --                                                | 290                                                        | 7.9           | 20.0                        | --                                           | --                           |
| 26... | --                                                               | --                                                 | --                                               | --                                 | --                                                | 300                                                        | 8.3           | 23.0                        | --                                           | --                           |
| 26... | --                                                               | --                                                 | --                                               | --                                 | --                                                | 300                                                        | 8.5           | 27.5                        | --                                           | --                           |
| 26... | --                                                               | --                                                 | --                                               | --                                 | --                                                | 300                                                        | 8.5           | 27.5                        | --                                           | --                           |
| 26... | --                                                               | --                                                 | --                                               | --                                 | --                                                | 340                                                        | 8.2           | 23.5                        | --                                           | --                           |
| 26-27 | --                                                               | --                                                 | --                                               | --                                 | --                                                | 340                                                        | 8.2           | 23.0                        | --                                           | --                           |
| 27... | --                                                               | --                                                 | --                                               | --                                 | --                                                | --                                                         | --            | --                          | --                                           | --                           |
| 27... | --                                                               | --                                                 | --                                               | --                                 | --                                                | 325                                                        | 8.0           | 22.0                        | --                                           | --                           |
| 27... | --                                                               | --                                                 | --                                               | --                                 | --                                                | 325                                                        | 8.0           | 22.0                        | --                                           | --                           |
| JULY  |                                                                  |                                                    |                                                  |                                    |                                                   |                                                            |               |                             |                                              |                              |
| 24... | 123                                                              | .17                                                | 264                                              | 87                                 | 0                                                 | 200                                                        | 7.1           | 24.0                        | 60                                           | 200                          |
| SEP.  |                                                                  |                                                    |                                                  |                                    |                                                   |                                                            |               |                             |                                              |                              |
| 25... | 197                                                              | .27                                                | 47.7                                             | --                                 | --                                                | 290                                                        | 8.1           | 18.5                        | --                                           | 9                            |

| DATE  | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(HIGH<br>LEVEL)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) | CARBON<br>DIOXIDE<br>(CO2)<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | PHENOLS<br>(UG/L) | SUS-<br>PENDE<br>SEDI-<br>MENT<br>(MG/L) | SUS-<br>PENDE<br>SEDI-<br>MENT<br>DIS-<br>CHARGE<br>(T/DAY) |
|-------|------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|--------------------------------------|---------------------------------------------------|-------------------------------------------------------|---------------------------------------------|-------------------|------------------------------------------|-------------------------------------------------------------|
| JUNE  |                                    |                                                                |                                                     |                                      |                                                   |                                                       |                                             |                   |                                          |                                                             |
| 26... | 8.8                                | --                                                             | --                                                  | --                                   | --                                                | --                                                    | --                                          | --                | --                                       | --                                                          |
| 26... | 9.6                                | --                                                             | --                                                  | --                                   | --                                                | --                                                    | --                                          | --                | --                                       | --                                                          |
| 26... | 11.4                               | --                                                             | --                                                  | --                                   | --                                                | --                                                    | --                                          | --                | --                                       | --                                                          |
| 26... | 12.0                               | --                                                             | --                                                  | --                                   | --                                                | --                                                    | --                                          | --                | --                                       | --                                                          |
| 26... | 10.4                               | --                                                             | --                                                  | --                                   | --                                                | --                                                    | --                                          | --                | --                                       | --                                                          |
| 26... | 10.0                               | --                                                             | --                                                  | --                                   | --                                                | --                                                    | --                                          | --                | --                                       | --                                                          |
| 26-27 | --                                 | --                                                             | 5.8                                                 | --                                   | --                                                | --                                                    | --                                          | --                | --                                       | --                                                          |
| 27... | 9.2                                | --                                                             | --                                                  | --                                   | --                                                | --                                                    | --                                          | --                | --                                       | --                                                          |
| 27... | 9.0                                | --                                                             | --                                                  | --                                   | --                                                | --                                                    | --                                          | --                | --                                       | --                                                          |
| JULY  |                                    |                                                                |                                                     |                                      |                                                   |                                                       |                                             |                   |                                          |                                                             |
| 24... | 7.0                                | 89                                                             | 3.1                                                 | 14                                   | --                                                | --                                                    | 6.0                                         | 4                 | --                                       | --                                                          |
| SEP.  |                                    |                                                                |                                                     |                                      |                                                   |                                                       |                                             |                   |                                          |                                                             |
| 25... | 12.2                               | 20                                                             | --                                                  | --                                   | 230                                               | 6470                                                  | 8.0                                         | --                | 50                                       | 12                                                          |

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

02437000 - TOMBIGBEE RIVER NEAR AMORY, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE          | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG) | BICAR-<br>BONATE<br>(HCO3)<br>(MG/L) | ALKA-<br>LINITY<br>AS<br>CAC03<br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | TOTAL<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>NITRITE<br>(N)<br>(MG/L) |
|---------------|------|------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------|------------------------------------------|----------------------------------------------|---------------------------------------------------|-----------------------------------|-----------------------------------|
| JULY<br>24... | 1000 | 1910                                     | 28                                               | 1.4                                           | 136                                  | 112                                      | 14                                           | 5.8                                               | .79                               | .05                               |
| SEP.<br>25... | 1430 | 424                                      | --                                               | --                                            | --                                   | --                                       | --                                           | --                                                | --                                | --                                |

| DATE          | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHO-<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHO-<br>PHOS-<br>PHATE<br>(PO4)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) |
|---------------|------------------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------------|-------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------|
| JULY<br>24... | .84                                                  | .18                                       | .92                                       | 1.1                                                      | 1.9                                     | 8.6                                       | .47                                       | .07                                                          | .21                                                           | 123                                                              |
| SEP.<br>25... | .08                                                  | .01                                       | 1.5                                       | 1.5                                                      | 1.6                                     | 7.0                                       | .36                                       | --                                                           | --                                                            | 96                                                               |

| DATE          | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|----------------------------------------------------|--------------------------------------------------|------------------------------------|---------------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|----------------------------------------------|------------------------------|------------------------------------|
| JULY<br>24... | .17                                                | 634                                              | 76                                 | 0                                                 | 170                                                        | 7.4           | 24.0                        | 70                                           | 200                          | 6.5                                |
| SEP.<br>25... | .13                                                | 110                                              | --                                 | --                                                | 100                                                        | 6.7           | 18.0                        | --                                           | 100                          | 9.0                                |

| DATE          | CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(HIGH<br>LEVEL)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) | CARBON<br>DIOXIDE<br>(CO2)<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | PHENOLS<br>(UG/L) | SUS-<br>PENDE<br>SEDI-<br>MENT<br>CHARGE<br>(MG/L) | SUS-<br>PENDE<br>SEDI-<br>MENT<br>CHARGE<br>(T/DAY) |
|---------------|----------------------------------------------------------------|-----------------------------------------------------|--------------------------------------|---------------------------------------------------|-------------------------------------------------------|---------------------------------------------|-------------------|----------------------------------------------------|-----------------------------------------------------|
| JULY<br>24... | 74                                                             | 3.7                                                 | 8.7                                  | --                                                | --                                                    | 17                                          | 5                 | --                                                 | --                                                  |
| SEP.<br>25... | 16                                                             | --                                                  | --                                   | 1290                                              | 1040                                                  | 16                                          | --                | 42                                                 | 48                                                  |



## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

211

02437500 - TOMBIGREE RIVER AT ABERDEEN, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE       | TIME | INSTANTANEOUS DISCHARGE (CFS) | DIS-SOLVED CALCIUM (CA) (MG/L) | DIS-SOLVED MAGNESIUM (MG) | BICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CaCO3 (MG/L) | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLORIDE (CL) (MG/L) | TOTAL NITRATE (N) (MG/L) |
|------------|------|-------------------------------|--------------------------------|---------------------------|---------------------------|------------------------|----------------------------|---------------------------------|---------------------------------|--------------------------|
| JULY 24... | 1100 | 1420                          | 24                             | 1.5                       | 92                        | 0                      | 75                         | 9.4                             | 4.7                             | .34                      |
| SEP. 26... | 0930 | 976                           | --                             | --                        | --                        | --                     | --                         | --                              | --                              | --                       |

| DATE       | TOTAL NITRITE (N) (MG/L) | TOTAL NITRITE PLUS NITRATE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) | ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) | TOTAL NITROGEN (NO3) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | DIS-SOLVED ORTHO PHOSPHORUS (P) (MG/L) | DIS-SOLVED ORTHO PHOSPHATE (PO4) (MG/L) |
|------------|--------------------------|---------------------------------------|-----------------------------|-----------------------------|------------------------------------|---------------------------|-----------------------------|-----------------------------|----------------------------------------|-----------------------------------------|
| JULY 24... | .03                      | .37                                   | .10                         | .90                         | 1.0                                | 1.4                       | 6.1                         | .38                         | .07                                    | .21                                     |
| SEP. 26... | --                       | .13                                   | .04                         | .34                         | .38                                | .51                       | 2.3                         | .08                         | --                                     | --                                      |

| DATE       | DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) | DIS-SOLVED SOLIDS (TONS PER AC-FT) | DIS-SOLVED SOLIDS (TONS PER DAY) | HARDNESS (CA+MG) (MG/L) | NON-CARBONATE HARDNESS (MG/L) | SPECIFIC CONDUCTANCE (MICRO-MHOS) | PH (UNITS) | TEMPERATURE (DEG C) | COLOR (PLATINUM-COBALT UNITS) |
|------------|---------------------------------------------|------------------------------------|----------------------------------|-------------------------|-------------------------------|-----------------------------------|------------|---------------------|-------------------------------|
| JULY 24... | 96                                          | .13                                | 368                              | 66                      | 0                             | 150                               | 7.3        | 25.0                | 60                            |
| SEP. 26... | 76                                          | .10                                | 200                              | --                      | --                            | 102                               | 6.8        | 18.0                | --                            |

| DATE       | TURBIDITY (JTU) | DIS-SOLVED OXYGEN (MG/L) | CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) | BIO-CHEMICAL OXYGEN DEMAND (MG/L) | CARBON DIOXIDE (CO2) (MG/L) | TOTAL ORGANIC CARBON (C) (MG/L) | PHENOLS (UG/L) | SUSPENDED SEDIMENT (MG/L) | SUSPENDED SEDIMENT DISCHARGE (T/DAY) |
|------------|-----------------|--------------------------|--------------------------------------------|-----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|--------------------------------------|
| JULY 24... | 100             | 6.9                      | 70                                         | 2.7                               | 7.4                         | 8.7                             | 1              | --                        | --                                   |
| SEP. 26... | 10              | 8.7                      | 14                                         | --                                | --                          | 14                              | --             | 34                        | 90                                   |

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

02441500 - TOMBIGBEE RIVER AT COLUMBUS, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | BICAR-<br>BONATE<br>(HCO3)<br>(MG/L) | CAR-<br>BONATE<br>(CO3)<br>(MG/L) | ALKA-<br>LILITY<br>AS<br>CACO3<br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | TOTAL<br>NITRATE<br>(N)<br>(MG/L) |
|-------|------|-----------------------------------------------|--------------------------------------------------|---------------------------------------------------------|--------------------------------------|-----------------------------------|------------------------------------------|----------------------------------------------|---------------------------------------------------|-----------------------------------|
| FEB.  |      |                                               |                                                  |                                                         |                                      |                                   |                                          |                                              |                                                   |                                   |
| 26... | 1800 | 18600                                         | --                                               | --                                                      | --                                   | --                                | --                                       | --                                           | 4.1                                               | --                                |
| MAR.  |      |                                               |                                                  |                                                         |                                      |                                   |                                          |                                              |                                                   |                                   |
| 14... | 1800 | 5520                                          | --                                               | --                                                      | --                                   | --                                | --                                       | --                                           | --                                                | --                                |
| 28... | 0840 | 8970                                          | --                                               | --                                                      | --                                   | --                                | --                                       | --                                           | --                                                | --                                |
| MAY   |      |                                               |                                                  |                                                         |                                      |                                   |                                          |                                              |                                                   |                                   |
| 08... | 1000 | 3670                                          | --                                               | --                                                      | --                                   | --                                | --                                       | --                                           | 6.5                                               | --                                |
| JULY  |      |                                               |                                                  |                                                         |                                      |                                   |                                          |                                              |                                                   |                                   |
| 24... | 1330 | 1640                                          | 18                                               | 1.4                                                     | 44                                   | 0                                 | 36                                       | 8.2                                          | 11                                                | .36                               |

| DATE  | TOTAL<br>NITRITE<br>(N)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHO.<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHO<br>PHOS-<br>PHATE<br>(PO4)<br>(MG/L) |
|-------|-----------------------------------|------------------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------------|-------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|
| FEB.  |                                   |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                              |                                                              |
| 26... | --                                | .12                                                  | --                                        | --                                        | .37                                                      | .49                                     | 2.2                                       | .15                                       | --                                                           | --                                                           |
| MAR.  |                                   |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                              |                                                              |
| 14... | --                                | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        | --                                        | --                                                           | --                                                           |
| 28... | --                                | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        | --                                        | --                                                           | --                                                           |
| MAY   |                                   |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                              |                                                              |
| 08... | --                                | .32                                                  | --                                        | --                                        | .32                                                      | .64                                     | 2.8                                       | .13                                       | --                                                           | --                                                           |
| JULY  |                                   |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                              |                                                              |
| 24... | .02                               | .38                                                  | .04                                       | .39                                       | .43                                                      | .81                                     | 3.6                                       | .15                                       | .02                                                          | .06                                                          |

| DATE  | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) |
|-------|------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|------------------------------------|---------------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|----------------------------------------------|------------------------------|
| FEB.  |                                                                  |                                                    |                                                  |                                    |                                                   |                                                            |               |                             |                                              |                              |
| 26... | 54                                                               | .07                                                | 2710                                             | --                                 | --                                                | 79                                                         | 6.0           | 7.2                         | --                                           | --                           |
| MAR.  |                                                                  |                                                    |                                                  |                                    |                                                   |                                                            |               |                             |                                              |                              |
| 14... | --                                                               | --                                                 | --                                               | --                                 | --                                                | 125                                                        | 6.9           | 17.2                        | --                                           | --                           |
| 28... | --                                                               | --                                                 | --                                               | --                                 | --                                                | 100                                                        | 6.1           | 13.0                        | --                                           | --                           |
| MAY   |                                                                  |                                                    |                                                  |                                    |                                                   |                                                            |               |                             |                                              |                              |
| 08... | 54                                                               | .07                                                | 535                                              | --                                 | --                                                | 112                                                        | 7.2           | 20.0                        | --                                           | --                           |
| JULY  |                                                                  |                                                    |                                                  |                                    |                                                   |                                                            |               |                             |                                              |                              |
| 24... | 95                                                               | .13                                                | 421                                              | 51                                 | 15                                                | 130                                                        | 7.0           | 27.5                        | 7                                            | 20                           |

| DATE  | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(HIGH<br>LEVEL)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) | CARBON<br>DIOXIDE<br>(CO2)<br>(MG/L) | IMME-<br>DIATE<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | PHENOLS<br>(UG/L) |
|-------|------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|--------------------------------------|------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|---------------------------------------------|-------------------|
| FEB.  |                                    |                                                                |                                                     |                                      |                                                            |                                                   |                                                       |                                             |                   |
| 26... | 11.2                               | 16                                                             | .0                                                  | --                                   | 15600                                                      | 173                                               | 190                                                   | 4.0                                         | 6                 |
| MAR.  |                                    |                                                                |                                                     |                                      |                                                            |                                                   |                                                       |                                             |                   |
| 14... | 8.6                                | --                                                             | --                                                  | --                                   | --                                                         | --                                                | --                                                    | --                                          | --                |
| 28... | 9.3                                | --                                                             | --                                                  | --                                   | --                                                         | --                                                | --                                                    | --                                          | --                |
| MAY   |                                    |                                                                |                                                     |                                      |                                                            |                                                   |                                                       |                                             |                   |
| 08... | 8.0                                | 62                                                             | --                                                  | --                                   | --                                                         | --                                                | --                                                    | 9.6                                         | --                |
| JULY  |                                    |                                                                |                                                     |                                      |                                                            |                                                   |                                                       |                                             |                   |
| 24... | 7.9                                | 32                                                             | 2.2                                                 | 7.0                                  | --                                                         | --                                                | --                                                    | 8.0                                         | 0                 |

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

213

02443610 - TOMBIGEE RIVER BL COLUMBUS, MISS

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE  | TIME | INSTANTANEOUS DIS-CHARGE (CFS) | DIS-SOLVED CHLORIDE (MG/L) | TOTAL NITRITE PLUS NITRATE (MG/L) | AMMONIA NITROGEN (MG/L) | ORGANIC NITROGEN (MG/L) | TOTAL KJEL-DAHL NITROGEN (MG/L) | TOTAL NITROGEN (MG/L) |
|-------|------|--------------------------------|----------------------------|-----------------------------------|-------------------------|-------------------------|---------------------------------|-----------------------|
| DEC.  |      |                                |                            |                                   |                         |                         |                                 |                       |
| 06... | 0830 | 24200                          | --                         | --                                | --                      | --                      | --                              | --                    |
| 13... | 1515 | 4100                           | --                         | --                                | --                      | --                      | --                              | --                    |
| 19... | 1800 | 2910                           | --                         | --                                | --                      | --                      | --                              | --                    |
| JAN.  |      |                                |                            |                                   |                         |                         |                                 |                       |
| 10... | 1200 | 37600                          | --                         | --                                | --                      | --                      | --                              | --                    |
| FEB.  |      |                                |                            |                                   |                         |                         |                                 |                       |
| 27... | 1100 | 22000                          | 3.8                        | .11                               | --                      | --                      | .56                             | .67                   |
| MAR.  |      |                                |                            |                                   |                         |                         |                                 |                       |
| 15... | 0830 | 6880                           | --                         | --                                | --                      | --                      | --                              | --                    |
| 28... | 0940 | 10800                          | --                         | --                                | --                      | --                      | --                              | --                    |
| MAY   |      |                                |                            |                                   |                         |                         |                                 |                       |
| 09... | 0805 | 4560                           | 4.3                        | .02                               | --                      | --                      | .39                             | .41                   |
| SEP.  |      |                                |                            |                                   |                         |                         |                                 |                       |
| 26... | 1500 | 1470                           | --                         | .19                               | .04                     | .40                     | .44                             | .63                   |

| DATE  | TOTAL NITROGEN (NO3) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) | DIS-SOLVED SOLIDS (TONS PER AC-FT) | DIS-SOLVED SOLIDS (TONS PER DAY) | SPECIFIC CONDUCTANCE (MICRO-MHOS) | PH (UNITS) | TEMPERATURE (DEG C) | TURBIDITY (JTU) |
|-------|-----------------------------|-----------------------------|---------------------------------------------|------------------------------------|----------------------------------|-----------------------------------|------------|---------------------|-----------------|
| DEC.  |                             |                             |                                             |                                    |                                  |                                   |            |                     |                 |
| 06... | --                          | --                          | --                                          | --                                 | --                               | 105                               | 6.5        | 12.0                | --              |
| 13... | --                          | --                          | --                                          | --                                 | --                               | 100                               | 7.2        | 10.0                | --              |
| 19... | --                          | --                          | --                                          | --                                 | --                               | 110                               | 6.4        | 9.0                 | --              |
| JAN.  |                             |                             |                                             |                                    |                                  |                                   |            |                     |                 |
| 10... | --                          | --                          | --                                          | --                                 | --                               | 80                                | 6.4        | 10.0                | --              |
| FEB.  |                             |                             |                                             |                                    |                                  |                                   |            |                     |                 |
| 27... | 3.0                         | .14                         | 54                                          | .07                                | 3210                             | 74                                | 6.2        | 7.0                 | --              |
| MAR.  |                             |                             |                                             |                                    |                                  |                                   |            |                     |                 |
| 15... | --                          | --                          | --                                          | --                                 | --                               | 110                               | 6.9        | 16.0                | --              |
| 28... | --                          | --                          | --                                          | --                                 | --                               | 90                                | 6.4        | 13.0                | --              |
| MAY   |                             |                             |                                             |                                    |                                  |                                   |            |                     |                 |
| 09... | 1.8                         | .14                         | 104                                         | .14                                | 1280                             | 185                               | 6.7        | 20.5                | --              |
| SEP.  |                             |                             |                                             |                                    |                                  |                                   |            |                     |                 |
| 26... | 2.8                         | .12                         | 79                                          | .11                                | 314                              | 100                               | 6.4        | 20.0                | 10              |

| DATE  | DIS-SOLVED OXYGEN (MG/L) | CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) | BIO-CHEMICAL OXYGEN DEMAND (MG/L) | IMMEDIATE CULTIFORM (COL. PER 100 ML) | FECAL COLIFORM (COL. PER 100 ML) | STREPTOCOCCI (COLONIES PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | PHENOLS (UG/L) |
|-------|--------------------------|--------------------------------------------|-----------------------------------|---------------------------------------|----------------------------------|------------------------------------|---------------------------------|----------------|
| DEC.  |                          |                                            |                                   |                                       |                                  |                                    |                                 |                |
| 06... | 8.0                      | --                                         | 2.0                               | --                                    | --                               | --                                 | --                              | --             |
| 13... | 9.8                      | --                                         | --                                | --                                    | --                               | --                                 | --                              | --             |
| 19... | 10.3                     | --                                         | --                                | --                                    | --                               | --                                 | --                              | --             |
| JAN.  |                          |                                            |                                   |                                       |                                  |                                    |                                 |                |
| 10... | 10.2                     | --                                         | 1.8                               | 70000                                 | 820                              | 3000                               | --                              | --             |
| FEB.  |                          |                                            |                                   |                                       |                                  |                                    |                                 |                |
| 27... | 11.4                     | 20                                         | 2.3                               | 4000                                  | 400                              | 490                                | 5.9                             | 0              |
| MAR.  |                          |                                            |                                   |                                       |                                  |                                    |                                 |                |
| 15... | 9.0                      | --                                         | --                                | --                                    | --                               | --                                 | --                              | --             |
| 28... | 9.4                      | --                                         | --                                | --                                    | --                               | --                                 | --                              | --             |
| MAY   |                          |                                            |                                   |                                       |                                  |                                    |                                 |                |
| 09... | 6.3                      | 18                                         | --                                | --                                    | --                               | --                                 | 9.1                             | 0              |
| SEP.  |                          |                                            |                                   |                                       |                                  |                                    |                                 |                |
| 26... | 8.9                      | 10                                         | --                                | --                                    | --                               | --                                 | 5.1                             | --             |

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

02448000 - NOXUBEE RIVER AT MACON, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL-<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) |
|-------|------|-----------------------------------------------|---------------------------------------------------|------------------------------------------------------|-------------------------------------------|-------------------------------------------|-----------------------------------------------------------|-----------------------------------------|-----------------------------------------|-------------------------------------------|
| DEC.  |      |                                               |                                                   |                                                      |                                           |                                           |                                                           |                                         |                                         |                                           |
| 06... | 1000 | 1860                                          | --                                                | --                                                   | --                                        | --                                        | --                                                        | --                                      | --                                      | --                                        |
| 13... | 1315 | 293                                           | --                                                | --                                                   | --                                        | --                                        | --                                                        | --                                      | --                                      | --                                        |
| 19... | 1600 | 195                                           | --                                                | --                                                   | --                                        | --                                        | --                                                        | --                                      | --                                      | --                                        |
| JAN.  |      |                                               |                                                   |                                                      |                                           |                                           |                                                           |                                         |                                         |                                           |
| 10... | 1345 | 11100                                         | --                                                | --                                                   | --                                        | --                                        | --                                                        | --                                      | --                                      | --                                        |
| 16... | 1100 | 11200                                         | --                                                | --                                                   | --                                        | --                                        | --                                                        | --                                      | --                                      | --                                        |
| 29... | 1330 | 16400                                         | 2.0                                               | .01                                                  | --                                        | --                                        | .40                                                       | .41                                     | 1.8                                     | .11                                       |
| FEB.  |      |                                               |                                                   |                                                      |                                           |                                           |                                                           |                                         |                                         |                                           |
| 27... | 0800 | 2800                                          | 3.2                                               | .03                                                  | --                                        | --                                        | .50                                                       | .53                                     | 2.3                                     | .15                                       |
| MAR.  |      |                                               |                                                   |                                                      |                                           |                                           |                                                           |                                         |                                         |                                           |
| 14... | 1530 | 691                                           | --                                                | --                                                   | --                                        | --                                        | --                                                        | --                                      | --                                      | --                                        |
| 27... | 1630 | 1040                                          | --                                                | --                                                   | --                                        | --                                        | --                                                        | --                                      | --                                      | --                                        |
| MAY   |      |                                               |                                                   |                                                      |                                           |                                           |                                                           |                                         |                                         |                                           |
| 08... | 1700 | 320                                           | 3.1                                               | .14                                                  | --                                        | --                                        | .24                                                       | .38                                     | 1.7                                     | .08                                       |
| SEP.  |      |                                               |                                                   |                                                      |                                           |                                           |                                                           |                                         |                                         |                                           |
| 10... | 1300 | 351                                           | --                                                | .21                                                  | .04                                       | .56                                       | .60                                                       | .81                                     | 3.6                                     | .16                                       |

| DATE  | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | TUR-<br>BID-<br>ITY<br>(JTU) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(HIGH<br>LEVEL)<br>(MG/L) |
|-------|------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------|------------------------------------|----------------------------------------------------------------|
| DEC.  |                                                                  |                                                    |                                                  |                                                            |               |                             |                              |                                    |                                                                |
| 06... | --                                                               | --                                                 | --                                               | 110                                                        | 6.3           | 12.2                        | --                           | 8.3                                | --                                                             |
| 13... | --                                                               | --                                                 | --                                               | 100                                                        | 6.9           | 10.0                        | --                           | 11.5                               | --                                                             |
| 19... | --                                                               | --                                                 | --                                               | 93                                                         | 7.2           | 7.0                         | --                           | 11.4                               | --                                                             |
| JAN.  |                                                                  |                                                    |                                                  |                                                            |               |                             |                              |                                    |                                                                |
| 10... | --                                                               | --                                                 | --                                               | 100                                                        | 6.8           | 14.0                        | --                           | 9.1                                | --                                                             |
| 16... | --                                                               | --                                                 | --                                               | 70                                                         | 6.8           | 11.5                        | --                           | 8.2                                | --                                                             |
| 29... | 42                                                               | .06                                                | 1860                                             | 59                                                         | 6.7           | 15.0                        | --                           | 8.9                                | 16                                                             |
| FEB.  |                                                                  |                                                    |                                                  |                                                            |               |                             |                              |                                    |                                                                |
| 27... | 51                                                               | .07                                                | 386                                              | 63                                                         | 5.9           | 6.2                         | --                           | 11.2                               | 24                                                             |
| MAR.  |                                                                  |                                                    |                                                  |                                                            |               |                             |                              |                                    |                                                                |
| 14... | --                                                               | --                                                 | --                                               | 110                                                        | 6.8           | 17.8                        | --                           | 7.8                                | --                                                             |
| 27... | --                                                               | --                                                 | --                                               | 100                                                        | 5.9           | 14.0                        | --                           | 8.9                                | --                                                             |
| MAY   |                                                                  |                                                    |                                                  |                                                            |               |                             |                              |                                    |                                                                |
| 08... | 94                                                               | .13                                                | 81.2                                             | 100                                                        | 7.2           | 20.5                        | --                           | 7.7                                | 18                                                             |
| SEP.  |                                                                  |                                                    |                                                  |                                                            |               |                             |                              |                                    |                                                                |
| 10... | 95                                                               | .13                                                | 90.0                                             | 132                                                        | 7.0           | 22.2                        | 70                           | 6.2                                | 12                                                             |

| DATE  | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) | IMME-<br>DIATE<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | DIS-<br>SOL-<br>VED<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | PHENOLS<br>(UG/L) | SUS-<br>PENDE<br>SEDIM-<br>ENT<br>(MG/L) | SUS-<br>PENDE<br>SEDIM-<br>ENT<br>DIS-<br>CHARGE<br>(T/DAY) |
|-------|-----------------------------------------------------|------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|---------------------------------------------|-----------------------------------------------------------|-------------------|------------------------------------------|-------------------------------------------------------------|
| DEC.  |                                                     |                                                            |                                                   |                                                       |                                             |                                                           |                   |                                          |                                                             |
| 06... | 2.4                                                 | 30000                                                      | 2100                                              | 1000                                                  | --                                          | --                                                        | --                | --                                       | --                                                          |
| 13... | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                                                        | --                | --                                       | --                                                          |
| 19... | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                                                        | --                | --                                       | --                                                          |
| JAN.  |                                                     |                                                            |                                                   |                                                       |                                             |                                                           |                   |                                          |                                                             |
| 10... | 2.9                                                 | 60000                                                      | 3400                                              | 2250                                                  | --                                          | --                                                        | --                | --                                       | --                                                          |
| 16... | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                                                        | --                | --                                       | --                                                          |
| 29... | --                                                  | --                                                         | --                                                | --                                                    | 10                                          | --                                                        | 10                | --                                       | --                                                          |
| FEB.  |                                                     |                                                            |                                                   |                                                       |                                             |                                                           |                   |                                          |                                                             |
| 27... | 1.8                                                 | 22500                                                      | 320                                               | 148                                                   | 7.8                                         | 7.0                                                       | 4                 | --                                       | --                                                          |
| MAR.  |                                                     |                                                            |                                                   |                                                       |                                             |                                                           |                   |                                          |                                                             |
| 14... | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                                                        | --                | --                                       | --                                                          |
| 27... | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                                                        | --                | --                                       | --                                                          |
| MAY   |                                                     |                                                            |                                                   |                                                       |                                             |                                                           |                   |                                          |                                                             |
| 08... | --                                                  | --                                                         | --                                                | --                                                    | 7.7                                         | --                                                        | 0                 | --                                       | --                                                          |
| SEP.  |                                                     |                                                            |                                                   |                                                       |                                             |                                                           |                   |                                          |                                                             |
| 10... | --                                                  | --                                                         | 196                                               | 340                                                   | 8.0                                         | --                                                        | --                | 102                                      | 97                                                          |

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

215

02448500 - NOXUBEE RIVER NEAR GEIGER, ALA.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE          | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | BICAR-<br>BONATE<br>(HCO3)<br>(MG/L) | CAR-<br>BONATE<br>(CO3)<br>(MG/L) | ALKA-<br>LINITY<br>AS<br>CAO3<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) |
|---------------|------|------------------------------------------|--------------------------------------------------|---------------------------------------------------------|--------------------------------------|-----------------------------------|-----------------------------------------|---------------------------------------------------|------------------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------------|
| OCT.<br>23... | 1530 | 16                                       | --                                               | --                                                      | 52                                   | 0                                 | 43                                      | 6.2                                               | --                                                   | --                                        | --                                        | --                                                       |
| FEB.<br>26... | 1500 | 4150                                     | 13                                               | 1.3                                                     | --                                   | --                                | --                                      | 3.0                                               | .08                                                  | --                                        | --                                        | .53                                                      |
| MAR.<br>27... | 1600 | 1900                                     | --                                               | --                                                      | --                                   | --                                | --                                      | --                                                | --                                                   | --                                        | --                                        | --                                                       |
| MAY<br>04...  | 1545 | 440                                      | 8.2                                              | 1.7                                                     | --                                   | --                                | --                                      | --                                                | --                                                   | --                                        | --                                        | --                                                       |
| SEP.<br>10... | 1500 | 1400                                     | --                                               | --                                                      | --                                   | --                                | --                                      | --                                                | .29                                                  | .04                                       | .73                                       | .77                                                      |

| DATE          | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) |
|---------------|-----------------------------------------|-------------------------------------------|-------------------------------------------|------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|-------------------------------------|---------------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|
| OCT.<br>23... | --                                      | --                                        | --                                        | --                                                               | --                                                 | --                                               | 50                                  | 8                                                 | 143                                                        | 7.5           | 17.0                        |
| FEB.<br>26... | .61                                     | 2.7                                       | .30                                       | 72                                                               | .10                                                | 807                                              | 38                                  | --                                                | 94                                                         | 6.3           | 9.0                         |
| MAR.<br>27... | --                                      | --                                        | --                                        | --                                                               | --                                                 | --                                               | --                                  | --                                                | 140                                                        | 5.9           | 14.0                        |
| MAY<br>04...  | --                                      | --                                        | --                                        | 70                                                               | .10                                                | 83.2                                             | 27                                  | --                                                | 140                                                        | 6.9           | 21.5                        |
| SEP.<br>10... | 1.1                                     | 4.7                                       | .24                                       | 102                                                              | .14                                                | 386                                              | --                                  | --                                                | 180                                                        | 7.1           | 22.8                        |

| DATE          | TUR-<br>BID-<br>ITY<br>(JTU) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(HIGH<br>LEVEL)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) | CARBON<br>DIOXIDE<br>(CO2)<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | PHENOLS<br>(UG/L) | SUS-<br>PENDE<br>SEDI-<br>MENT<br>(MG/L) | SUS-<br>PENDE<br>SEDI-<br>MENT<br>DIS-<br>CHARGE<br>(T/DAY) |
|---------------|------------------------------|------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|--------------------------------------|---------------------------------------------------|-------------------------------------------------------|---------------------------------------------|-------------------|------------------------------------------|-------------------------------------------------------------|
| OCT.<br>23... | --                           | --                                 | --                                                             | --                                                  | 2.6                                  | --                                                | --                                                    | --                                          | --                | --                                       | --                                                          |
| FEB.<br>26... | --                           | 10.1                               | --                                                             | .5                                                  | --                                   | --                                                | --                                                    | 6.1                                         | 6                 | --                                       | --                                                          |
| MAR.<br>27... | --                           | 8.8                                | --                                                             | --                                                  | --                                   | --                                                | --                                                    | --                                          | --                | --                                       | --                                                          |
| MAY<br>04...  | --                           | 7.2                                | --                                                             | --                                                  | --                                   | --                                                | --                                                    | --                                          | --                | --                                       | --                                                          |
| SEP.<br>10... | 60                           | 5.6                                | 20                                                             | --                                                  | --                                   | 900                                               | 240                                                   | 12                                          | --                | 159                                      | 601                                                         |

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

## PASCAGOULA RIVER BASIN

02472000 - LEAF RIVER NEAR COLLINS, MISS

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE          | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | TOTAL<br>IRON<br>(FE)<br>(UG/L) | DIS-<br>SOLVED<br>MANGANESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>MAGNE-<br>SIUM<br>(MG)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) |
|---------------|------|------------------------------------------|---------------------------------|-----------------------------------------------|----------------------------------------------------|------------------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------------|
| DEC.<br>05... | 1230 | 1110                                     | --                              | --                                            | --                                                 | --                                                   | --                                                       | --                                      | --                                        |
| MAR.<br>28... | 1045 | 3570                                     | 2900                            | 33                                            | .8                                                 | .11                                                  | .97                                                      | 1.1                                     | 4.8                                       |

| DATE          | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) |
|---------------|-------------------------------------------|------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|-----------------------------------------------------|
| DEC.<br>05... | --                                        | --                                                               | --                                                 | --                                               | 85                                                         | 6.5           | 14.0                        | 9.9                                | 2.3                                                 |
| MAR.<br>28... | .05                                       | 62                                                               | .08                                                | 548                                              | 62                                                         | 6.2           | 14.5                        | 9.3                                | --                                                  |

| DATE          | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | DIS-<br>SOLVED<br>ARSENIC<br>(AS)<br>(UG/L) | DIS-<br>SOLVED<br>CAD-<br>MIUM<br>(CD)<br>(UG/L) | DIS-<br>SOLVED<br>CHRO-<br>MIUM<br>(CR)<br>(UG/L) | DIS-<br>SOLVED<br>COPPER<br>(CU)<br>(UG/L) | DIS-<br>SOLVED<br>LEAD<br>(PB)<br>(UG/L) | DIS-<br>SOLVED<br>MERCURY<br>(HG)<br>(UG/L) | DIS-<br>SOLVED<br>SELE-<br>NIUM<br>(SE)<br>(UG/L) | DIS-<br>SOLVED<br>ZINC<br>(ZN)<br>(UG/L) |
|---------------|---------------------------------------------|---------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------|------------------------------------------|---------------------------------------------|---------------------------------------------------|------------------------------------------|
| DEC.<br>05... | --                                          | --                                          | --                                               | --                                                | --                                         | --                                       | --                                          | --                                                | --                                       |
| MAR.<br>28... | 12                                          | 9                                           | 1                                                | 1                                                 | 4                                          | 1                                        | .0                                          | 4                                                 | 40                                       |

02472170 - LEAF RIVER NEAR ELLISVILLE, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE          | TIME | TOTAL<br>IRON<br>(FE)<br>(UG/L) | DIS-<br>SOLVED<br>MANGANESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>MAGNE-<br>SIUM<br>(MG)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) |
|---------------|------|---------------------------------|-----------------------------------------------|----------------------------------------------------|------------------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------------|
| DEC.<br>05... | 0830 | --                              | --                                            | --                                                 | --                                                   | --                                                       | --                                      | --                                        |
| MAR.<br>28... | 1245 | 2200                            | 50                                            | .9                                                 | .12                                                  | .71                                                      | .83                                     | 3.7                                       |

| DATE          | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|-------------------------------------------|------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|-----------------------------------------------------|---------------------------------------------|
| DEC.<br>05... | --                                        | --                                                               | --                                                 | 77                                                         | 6.4           | 12.0                        | 9.8                                | 2.5                                                 | --                                          |
| MAR.<br>28... | .05                                       | 63                                                               | .09                                                | 61                                                         | 6.0           | 14.8                        | 9.5                                | --                                                  | 12                                          |

| DATE          | DIS-<br>SOLVED<br>ARSENIC<br>(AS)<br>(UG/L) | DIS-<br>SOLVED<br>CAD-<br>MIUM<br>(CD)<br>(UG/L) | DIS-<br>SOLVED<br>CHRO-<br>MIUM<br>(CR)<br>(UG/L) | DIS-<br>SOLVED<br>COPPER<br>(CU)<br>(UG/L) | DIS-<br>SOLVED<br>LEAD<br>(PB)<br>(UG/L) | DIS-<br>SOLVED<br>MERCURY<br>(HG)<br>(UG/L) | DIS-<br>SOLVED<br>SELE-<br>NIUM<br>(SE)<br>(UG/L) | DIS-<br>SOLVED<br>ZINC<br>(ZN)<br>(UG/L) |
|---------------|---------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------|------------------------------------------|---------------------------------------------|---------------------------------------------------|------------------------------------------|
| DEC.<br>05... | --                                          | --                                               | --                                                | --                                         | --                                       | --                                          | --                                                | --                                       |
| MAR.<br>28... | 8                                           | 1                                                | 1                                                 | 6                                          | 0                                        | .1                                          | 4                                                 | 50                                       |



## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

217

02472500 - HOWIE CREEK NEAR HATTIESBURG, MISS

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL-<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) |
|-------|------|-----------------------------------------------|--------------------------------------------------|-----------------------------------------------|------------------------------------------------------|-------------------------------------------|-------------------------------------------|-----------------------------------------------------------|-----------------------------------------|-------------------------------------------|
| OCT.  |      |                                               |                                                  |                                               |                                                      |                                           |                                           |                                                           |                                         |                                           |
| 16... | 0645 | 155                                           | --                                               | --                                            | --                                                   | --                                        | --                                        | --                                                        | --                                      | --                                        |
| 16... | 1020 | 145                                           | --                                               | --                                            | --                                                   | --                                        | --                                        | --                                                        | --                                      | --                                        |
| 16... | 1315 | 195                                           | --                                               | --                                            | --                                                   | --                                        | --                                        | --                                                        | --                                      | --                                        |
| 16... | 1545 | 185                                           | --                                               | --                                            | --                                                   | --                                        | --                                        | --                                                        | --                                      | --                                        |
| 17... | 0730 | 250                                           | --                                               | --                                            | --                                                   | .07                                       | .17                                       | .24                                                       | --                                      | --                                        |
| 17... | 1215 | 260                                           | --                                               | --                                            | --                                                   | .07                                       | .18                                       | .25                                                       | --                                      | --                                        |
| 17... | 1735 | 270                                           | --                                               | --                                            | --                                                   | .11                                       | .17                                       | .28                                                       | --                                      | --                                        |
| 17... | 2120 | 270                                           | --                                               | --                                            | --                                                   | .08                                       | .02                                       | .10                                                       | --                                      | --                                        |
| 18... | 0015 | 270                                           | --                                               | --                                            | --                                                   | .06                                       | .18                                       | .24                                                       | --                                      | --                                        |
| 18... | 0330 | 278                                           | --                                               | --                                            | --                                                   | .10                                       | .51                                       | .61                                                       | --                                      | --                                        |
| 18... | 0730 | 278                                           | --                                               | --                                            | --                                                   | .15                                       | .16                                       | .31                                                       | --                                      | --                                        |
| 18... | 1015 | 278                                           | --                                               | --                                            | --                                                   | --                                        | --                                        | --                                                        | --                                      | --                                        |
| 18... | 1215 | 278                                           | --                                               | --                                            | --                                                   | --                                        | --                                        | --                                                        | --                                      | --                                        |
| 18... | 1500 | 278                                           | --                                               | --                                            | --                                                   | --                                        | --                                        | --                                                        | --                                      | --                                        |
| DEC.  |      |                                               |                                                  |                                               |                                                      |                                           |                                           |                                                           |                                         |                                           |
| 06... | 0930 | 375                                           | --                                               | --                                            | --                                                   | --                                        | --                                        | --                                                        | --                                      | --                                        |
| FEB.  |      |                                               |                                                  |                                               |                                                      |                                           |                                           |                                                           |                                         |                                           |
| 26... | 1200 | 392                                           | .4                                               | .8                                            | --                                                   | --                                        | --                                        | --                                                        | --                                      | --                                        |
| SEP.  |      |                                               |                                                  |                                               |                                                      |                                           |                                           |                                                           |                                         |                                           |
| 10... | 1000 | 2016                                          | --                                               | --                                            | .04                                                  | .02                                       | .71                                       | .73                                                       | .77                                     | 3.4                                       |

| DATE  | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | TUR-<br>BID-<br>ITY<br>(JTU) |
|-------|-------------------------------------------|------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|-------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------|
| OCT.  |                                           |                                                                  |                                                    |                                                  |                                     |                                                            |               |                             |                              |
| 16... | --                                        | --                                                               | --                                                 | --                                               | --                                  | 28                                                         | 6.7           | 22.0                        | --                           |
| 16... | --                                        | --                                                               | --                                                 | --                                               | --                                  | 28                                                         | 6.4           | 22.0                        | --                           |
| 16... | --                                        | --                                                               | --                                                 | --                                               | --                                  | 30                                                         | 7.3           | 22.0                        | --                           |
| 16... | --                                        | --                                                               | --                                                 | --                                               | --                                  | 28                                                         | 7.2           | 22.0                        | --                           |
| 17... | .04                                       | --                                                               | --                                                 | --                                               | --                                  | 28                                                         | 6.6           | 20.0                        | --                           |
| 17... | .10                                       | --                                                               | --                                                 | --                                               | --                                  | 29                                                         | 6.5           | 20.0                        | --                           |
| 17... | .06                                       | --                                                               | --                                                 | --                                               | --                                  | 30                                                         | 6.7           | 20.0                        | --                           |
| 17... | .04                                       | --                                                               | --                                                 | --                                               | --                                  | 27                                                         | 6.5           | 19.0                        | --                           |
| 18... | .04                                       | --                                                               | --                                                 | --                                               | --                                  | 24                                                         | 6.6           | 19.0                        | --                           |
| 18... | .09                                       | --                                                               | --                                                 | --                                               | --                                  | 27                                                         | 6.4           | 18.0                        | --                           |
| 18... | .03                                       | --                                                               | --                                                 | --                                               | --                                  | 28                                                         | 6.6           | 18.0                        | --                           |
| 18... | --                                        | --                                                               | --                                                 | --                                               | --                                  | 32                                                         | 6.6           | 18.0                        | --                           |
| 18... | --                                        | --                                                               | --                                                 | --                                               | --                                  | 31                                                         | 6.6           | 18.0                        | --                           |
| 18... | --                                        | --                                                               | --                                                 | --                                               | --                                  | 30                                                         | 6.3           | 21.0                        | --                           |
| DEC.  |                                           |                                                                  |                                                    |                                                  |                                     |                                                            |               |                             |                              |
| 06... | --                                        | --                                                               | --                                                 | --                                               | --                                  | 32                                                         | 6.4           | 13.0                        | --                           |
| FEB.  |                                           |                                                                  |                                                    |                                                  |                                     |                                                            |               |                             |                              |
| 26... | --                                        | 29                                                               | .04                                                | 30.7                                             | 4                                   | 29                                                         | 5.4           | 9.5                         | --                           |
| SEP.  |                                           |                                                                  |                                                    |                                                  |                                     |                                                            |               |                             |                              |
| 10... | .10                                       | 44                                                               | .06                                                | 240                                              | --                                  | 32                                                         | 5.7           | 22.0                        | 30                           |

| DATE  | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | CHFM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(HIGH<br>LEVEL)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) | IMME-<br>DIATE<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | SUS-<br>PENDE<br>SEDIM-<br>ENT<br>(MG/L) | SUS-<br>PENDE<br>SEDIM-<br>ENT<br>DIS-<br>CHARGE<br>(T/DAY) |
|-------|------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|---------------------------------------------|------------------------------------------|-------------------------------------------------------------|
| OCT.  |                                    |                                                                |                                                     |                                                            |                                                   |                                                       |                                             |                                          |                                                             |
| 16... | 8.1                                | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                                       | --                                                          |
| 16... | 8.2                                | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                                       | --                                                          |
| 16... | 8.3                                | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                                       | --                                                          |
| 16... | 8.7                                | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                                       | --                                                          |
| 17... | 8.7                                | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                                       | --                                                          |
| 17... | 9.2                                | --                                                             | 1.3                                                 | 6000                                                       | 2400                                              | 980                                                   | --                                          | --                                       | --                                                          |
| 17... | 9.0                                | --                                                             | --                                                  | 3800                                                       | 360                                               | 750                                                   | --                                          | --                                       | --                                                          |
| 17... | 8.5                                | --                                                             | .5                                                  | 3200                                                       | 860                                               | 980                                                   | --                                          | --                                       | --                                                          |
| 18... | 8.4                                | --                                                             | .9                                                  | 11000                                                      | 600                                               | 780                                                   | --                                          | --                                       | --                                                          |
| 18... | 8.3                                | --                                                             | .8                                                  | 4400                                                       | 340                                               | 450                                                   | --                                          | --                                       | --                                                          |
| 18... | 9.3                                | --                                                             | --                                                  | 12000                                                      | 740                                               | 380                                                   | --                                          | --                                       | --                                                          |
| 18... | 9.7                                | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                                       | --                                                          |
| 18... | 9.6                                | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                                       | --                                                          |
| 18... | 9.4                                | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                                       | --                                                          |
| DEC.  |                                    |                                                                |                                                     |                                                            |                                                   |                                                       |                                             |                                          |                                                             |
| 06... | 9.3                                | --                                                             | 1.4                                                 | --                                                         | --                                                | --                                                    | --                                          | --                                       | --                                                          |
| FEB.  |                                    |                                                                |                                                     |                                                            |                                                   |                                                       |                                             |                                          |                                                             |
| 26... | 10.3                               | --                                                             | .5                                                  | --                                                         | --                                                | --                                                    | --                                          | --                                       | --                                                          |
| SEP.  |                                    |                                                                |                                                     |                                                            |                                                   |                                                       |                                             |                                          |                                                             |
| 10... | 7.1                                | 28                                                             | --                                                  | --                                                         | 430                                               | 670                                                   | 9.8                                         | 66                                       | 359                                                         |

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

02472850 - OKATOMA L. AT SANFORD, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE          | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) |
|---------------|------|------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|-----------------------------------------------------|
| DEC.<br>06... | 1000 | 730                                      | 40                                                         | 6.3           | 13.0                        | 9.6                                | 1.9                                                 |

02473490 - TALLAHALA CREEK NEAR SANDERSVILLE, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE          | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) |
|---------------|------|------------------------------------------|--------------------------------------------------|---------------------------------------------------------|---------------------------------------------------|------------------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------------|-----------------------------------------|
| FEB.<br>27... | 1645 | 250                                      | 4.3                                              | 1.3                                                     | 22                                                | .07                                                  | --                                        | --                                        | .24                                                      | .31                                     |
| MAR.<br>28... | 0945 | 970                                      | --                                               | --                                                      | --                                                | --                                                   | --                                        | --                                        | --                                                       | --                                      |
| SEP.<br>10... | 1200 | 940                                      | --                                               | --                                                      | --                                                | .02                                                  | .02                                       | .66                                       | .68                                                      | .70                                     |

| DATE          | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | TUR-<br>BID-<br>ITY<br>(JTU) |
|---------------|-------------------------------------------|-------------------------------------------|------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------|
| FEB.<br>27... | 1.4                                       | .01                                       | 87                                                               | .12                                                | 58.7                                             | 16                                 | 133                                                        | 6.4           | 9.5                         | --                           |
| MAR.<br>28... | --                                        | --                                        | --                                                               | --                                                 | --                                               | --                                 | 85                                                         | 6.0           | 14.3                        | --                           |
| SEP.<br>10... | 3.1                                       | .07                                       | 84                                                               | .11                                                | 213                                              | --                                 | 80                                                         | 5.8           | 22.0                        | 40                           |

| DATE          | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(HIGH<br>LEVEL)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) | IMME-<br>DIATE<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | PHENOLS<br>(UG/L) | SUS-<br>PENDE<br>SEDIM-<br>ENT<br>(MG/L) | SUS-<br>PENDE<br>SEDIM-<br>ENT<br>DIS-<br>CHARGE<br>(T/DAY) |
|---------------|------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|---------------------------------------------|-------------------|------------------------------------------|-------------------------------------------------------------|
| FEB.<br>27... | 10.6                               | --                                                             | 1.1                                                 | 17500                                                      | 80                                                | 64                                                    | 4.0                                         | 5                 | --                                       | --                                                          |
| MAR.<br>28... | 8.6                                | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                | --                                       | --                                                          |
| SEP.<br>10... | 6.6                                | 32                                                             | --                                                  | --                                                         | 523                                               | 1610                                                  | 11                                          | --                | 87                                       | 221                                                         |

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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02474500 - TALLAHALA CREEK NEAR RUNNELSTOWN, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE  | TIME | INSTANTANEOUS DIS-CHARGE (CFS) | DIS-SOLVED CHLORIDE (CL) (MG/L) | TOTAL NITRITE PLUS NITRATE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (NO3) (MG/L) |
|-------|------|--------------------------------|---------------------------------|---------------------------------------|------------------------------|------------------------------|--------------------------------------|----------------------------|------------------------------|
| DEC.  |      |                                |                                 |                                       |                              |                              |                                      |                            |                              |
| 06... | 1130 | 1070                           | --                              | --                                    | --                           | --                           | --                                   | --                         | --                           |
| 12... | 1400 | 306                            | --                              | --                                    | --                           | --                           | --                                   | --                         | --                           |
| 18... | 1430 | 257                            | --                              | --                                    | --                           | --                           | --                                   | --                         | --                           |
| JAN.  |      |                                |                                 |                                       |                              |                              |                                      |                            |                              |
| 17... | 1530 | 2680                           | --                              | --                                    | --                           | --                           | --                                   | --                         | --                           |
| 30... | 0930 | 4920                           | 9.2                             | .02                                   | --                           | --                           | .52                                  | .54                        | 2.4                          |
| FEB.  |      |                                |                                 |                                       |                              |                              |                                      |                            |                              |
| 27... | 0930 | 1240                           | 8.5                             | .01                                   | --                           | --                           | .63                                  | .64                        | 2.8                          |
| MAR.  |      |                                |                                 |                                       |                              |                              |                                      |                            |                              |
| 27... | 1810 | 2960                           | --                              | --                                    | --                           | --                           | --                                   | --                         | --                           |
| SEP.  |      |                                |                                 |                                       |                              |                              |                                      |                            |                              |
| 09... | 1600 | 1488                           | --                              | .09                                   | .11                          | .72                          | .83                                  | .92                        | 4.1                          |

| DATE  | TOTAL PHOSPHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) | DIS-SOLVED SOLIDS (TONS PER AC-FT) | DIS-SOLVED SOLIDS (TONS PER DAY) | SPECIFIC CONDUCTANCE (MICRO-MHOS) | PH (UNITS) | TEMPERATURE (DEG C) | TURBIDITY (JTU) | DIS-SOLVED OXYGEN (MG/L) |
|-------|-----------------------------|---------------------------------------------|------------------------------------|----------------------------------|-----------------------------------|------------|---------------------|-----------------|--------------------------|
| DEC.  |                             |                                             |                                    |                                  |                                   |            |                     |                 |                          |
| 06... | --                          | --                                          | --                                 | --                               | 90                                | 6.6        | 13.0                | --              | 7.5                      |
| 12... | --                          | --                                          | --                                 | --                               | 120                               | 6.9        | 10.0                | --              | 9.2                      |
| 18... | --                          | --                                          | --                                 | --                               | 130                               | 6.5        | 9.0                 | --              | 9.5                      |
| JAN.  |                             |                                             |                                    |                                  |                                   |            |                     |                 |                          |
| 17... | --                          | --                                          | --                                 | --                               | 100                               | 6.4        | 14.5                | --              | 9.3                      |
| 30... | .04                         | 47                                          | .06                                | 624                              | 75                                | 5.6        | 15.0                | --              | 7.1                      |
| FEB.  |                             |                                             |                                    |                                  |                                   |            |                     |                 |                          |
| 27... | .12                         | 78                                          | .11                                | 261                              | 82                                | 5.7        | 9.0                 | --              | 7.1                      |
| MAR.  |                             |                                             |                                    |                                  |                                   |            |                     |                 |                          |
| 27... | --                          | --                                          | --                                 | --                               | 46                                | 5.6        | 14.0                | --              | 9.6                      |
| SEP.  |                             |                                             |                                    |                                  |                                   |            |                     |                 |                          |
| 09... | .17                         | 33                                          | .04                                | 133                              | 44                                | 5.7        | 21.8                | 50              | 6.6                      |

| DATE  | CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) | BIO-CHEMICAL OXYGEN DEMAND (MG/L) | IMMEDIATE COLIFORM FORM (COL. PER 100 ML) | FECAL COLIFORM FORM (COL. PER 100 ML) | STREPTOCOCCI (COLONIES PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | PHENOLS (UG/L) | SUSPENDED SEDIMENT (MG/L) | SUSPENDED SEDIMENT DISCHARGE (T/DAY) |
|-------|--------------------------------------------|-----------------------------------|-------------------------------------------|---------------------------------------|------------------------------------|---------------------------------|----------------|---------------------------|--------------------------------------|
| DEC.  |                                            |                                   |                                           |                                       |                                    |                                 |                |                           |                                      |
| 06... | --                                         | 5.4                               | 20000                                     | 270                                   | 275                                | --                              | --             | --                        | --                                   |
| 12... | --                                         | --                                | --                                        | --                                    | --                                 | --                              | --             | --                        | --                                   |
| 18... | --                                         | --                                | --                                        | --                                    | --                                 | --                              | --             | --                        | --                                   |
| JAN.  |                                            |                                   |                                           |                                       |                                    |                                 |                |                           |                                      |
| 17... | --                                         | --                                | --                                        | --                                    | --                                 | --                              | --             | --                        | --                                   |
| 30... | 28                                         | --                                | --                                        | --                                    | --                                 | --                              | 10             | --                        | --                                   |
| FEB.  |                                            |                                   |                                           |                                       |                                    |                                 |                |                           |                                      |
| 27... | 99                                         | 9.2                               | 4745                                      | 860                                   | 480                                | 31                              | 21             | --                        | --                                   |
| MAR.  |                                            |                                   |                                           |                                       |                                    |                                 |                |                           |                                      |
| 27... | --                                         | --                                | --                                        | --                                    | --                                 | --                              | --             | --                        | --                                   |
| SEP.  |                                            |                                   |                                           |                                       |                                    |                                 |                |                           |                                      |
| 09... | 28                                         | --                                | --                                        | 81045                                 | 1352                               | 9.2                             | --             | 195                       | 783                                  |

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

02475000 - LEAF RIVER NEAR MCLAIN, MISS

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE          | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) |
|---------------|------|-----------------------------------------------|--------------------------------------------------|---------------------------------------------------------|---------------------------------------------------|------------------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------------|-----------------------------------------|
| DEC.<br>06... | 1815 | 5530                                          | --                                               | --                                                      | --                                                | --                                                   | --                                        | --                                        | --                                                       | --                                      |
| JAN.<br>30... | 1100 | 27600                                         | 3.2                                              | .7                                                      | 6.7                                               | .04                                                  | --                                        | --                                        | .43                                                      | .47                                     |
| FEB.<br>27... | 1130 | 7690                                          | 1.7                                              | 1.0                                                     | --                                                | --                                                   | --                                        | --                                        | --                                                       | --                                      |
| MAR.<br>27... | 1715 | 14100                                         | --                                               | --                                                      | --                                                | --                                                   | --                                        | --                                        | --                                                       | --                                      |
| SEP.<br>10... | 1700 | 20580                                         | --                                               | --                                                      | --                                                | .08                                                  | .06                                       | 1.1                                       | 1.2                                                      | 1.3                                     |

| DATE          | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | TUR-<br>BID-<br>ITY<br>(JTU) |
|---------------|-------------------------------------------|-------------------------------------------|------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|-------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------|
| DEC.<br>06... | --                                        | --                                        | --                                                               | --                                                 | --                                               | --                                  | 67                                                         | 6.8           | 13.0                        | --                           |
| JAN.<br>30... | 2.1                                       | .01                                       | 46                                                               | .06                                                | 3430                                             | 11                                  | 46                                                         | 5.5           | 17.0                        | --                           |
| FEB.<br>27... | --                                        | --                                        | 52                                                               | .07                                                | 1080                                             | 8                                   | 65                                                         | 4.8           | 10.0                        | --                           |
| MAR.<br>27... | --                                        | --                                        | --                                                               | --                                                 | --                                               | --                                  | 31                                                         | 5.2           | 14.3                        | --                           |
| SEP.<br>10... | 5.7                                       | .12                                       | 36                                                               | .05                                                | 2000                                             | --                                  | 36                                                         | 5.4           | 23.0                        | 20                           |

| DATE          | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(HIGH<br>LEVEL)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | PHENOLS<br>(UG/L) | SUS-<br>PENDE<br>SEDIM-<br>ENT<br>(MG/L) | SUS-<br>PENDE<br>SEDIM-<br>ENT<br>DIS-<br>CHARGE<br>(T/DAY) |
|---------------|------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|---------------------------------------------|-------------------|------------------------------------------|-------------------------------------------------------------|
| DEC.<br>06... | 8.7                                | --                                                             | 2.6                                                 | --                                                | --                                                    | --                                          | --                | --                                       | --                                                          |
| JAN.<br>30... | 8.4                                | --                                                             | --                                                  | --                                                | --                                                    | --                                          | 10                | --                                       | --                                                          |
| FEB.<br>27... | 9.7                                | --                                                             | 1.5                                                 | --                                                | --                                                    | --                                          | --                | --                                       | --                                                          |
| MAR.<br>27... | 9.6                                | --                                                             | --                                                  | --                                                | --                                                    | --                                          | --                | --                                       | --                                                          |
| SEP.<br>10... | 6.4                                | 28                                                             | --                                                  | 710                                               | 357                                                   | 11                                          | --                | 138                                      | 7670                                                        |

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

221

02476000 - OKATIBBEL CREEK NEAR MERIDIAN, MISS

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE  | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL-<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) |
|-------|------|------------------------------------------|--------------------------------------------------|---------------------------------------------------------|---------------------------------------------------|------------------------------------------------------|-------------------------------------------|-------------------------------------------|-----------------------------------------------------------|-----------------------------------------|
| DEC.  |      |                                          |                                                  |                                                         |                                                   |                                                      |                                           |                                           |                                                           |                                         |
| 06... | 1330 | 120                                      | --                                               | --                                                      | --                                                | --                                                   | --                                        | --                                        | --                                                        | --                                      |
| JAN.  |      |                                          |                                                  |                                                         |                                                   |                                                      |                                           |                                           |                                                           |                                         |
| 10... | 1630 | 241                                      | --                                               | --                                                      | --                                                | --                                                   | --                                        | --                                        | --                                                        | --                                      |
| 29... | 1000 | 1400                                     | 2.4                                              | 1.2                                                     | 3.3                                               | .07                                                  | --                                        | --                                        | .19                                                       | .26                                     |
| FEB.  |      |                                          |                                                  |                                                         |                                                   |                                                      |                                           |                                           |                                                           |                                         |
| 28... | 1230 | 1530                                     | .4                                               | 1.0                                                     | --                                                | --                                                   | --                                        | --                                        | --                                                        | --                                      |
| MAR.  |      |                                          |                                                  |                                                         |                                                   |                                                      |                                           |                                           |                                                           |                                         |
| 27... | 0940 | 278                                      | --                                               | --                                                      | --                                                | --                                                   | --                                        | --                                        | --                                                        | --                                      |
| 27... | 1100 | --                                       | --                                               | --                                                      | --                                                | --                                                   | --                                        | --                                        | --                                                        | --                                      |
| SEP.  |      |                                          |                                                  |                                                         |                                                   |                                                      |                                           |                                           |                                                           |                                         |
| 11... | 1300 | 146                                      | --                                               | --                                                      | --                                                | .13                                                  | .04                                       | .46                                       | .50                                                       | .63                                     |

| DATE  | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) | DIS-<br>SOLVED<br>SOLIDS<br>(TUNS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | TUR-<br>BID-<br>ITY<br>(JTU) |
|-------|-------------------------------------------|-------------------------------------------|------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------|
| DEC.  |                                           |                                           |                                                                  |                                                    |                                                  |                                    |                                                            |               |                             |                              |
| 06... | --                                        | --                                        | --                                                               | --                                                 | --                                               | --                                 | 65                                                         | 5.8           | 12.0                        | --                           |
| JAN.  |                                           |                                           |                                                                  |                                                    |                                                  |                                    |                                                            |               |                             |                              |
| 10... | --                                        | --                                        | --                                                               | --                                                 | --                                               | --                                 | 50                                                         | 5.5           | 15.0                        | --                           |
| 29... | 1.2                                       | .10                                       | 47                                                               | .06                                                | 178                                              | 11                                 | 43                                                         | 6.4           | 14.2                        | --                           |
| FEB.  |                                           |                                           |                                                                  |                                                    |                                                  |                                    |                                                            |               |                             |                              |
| 28... | --                                        | --                                        | 43                                                               | .06                                                | 178                                              | 5                                  | 36                                                         | 5.8           | 10.0                        | --                           |
| MAR.  |                                           |                                           |                                                                  |                                                    |                                                  |                                    |                                                            |               |                             |                              |
| 27... | --                                        | --                                        | --                                                               | --                                                 | --                                               | --                                 | 43                                                         | 5.7           | 13.5                        | --                           |
| 27... | --                                        | --                                        | --                                                               | --                                                 | --                                               | --                                 | --                                                         | 5.9           | --                          | --                           |
| SEP.  |                                           |                                           |                                                                  |                                                    |                                                  |                                    |                                                            |               |                             |                              |
| 11... | 2.8                                       | .06                                       | 29                                                               | .04                                                | 11.4                                             | --                                 | 46                                                         | 6.2           | 25.0                        | 20                           |

| DATE  | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(HIGH<br>LEVEL)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) | IMME-<br>DIATE<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | PHENOLS<br>(UG/L) | SUS-<br>PENDE<br>SEDI-<br>MENT<br>(MG/L) | SUS-<br>PENDE<br>SEDI-<br>MENT<br>DIS-<br>CHARGE<br>(T/DAY) |
|-------|------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|---------------------------------------------|-------------------|------------------------------------------|-------------------------------------------------------------|
| DEC.  |                                    |                                                                |                                                     |                                                            |                                                   |                                                       |                                             |                   |                                          |                                                             |
| 06... | 8.8                                | --                                                             | 1.9                                                 | --                                                         | --                                                | --                                                    | --                                          | --                | --                                       | --                                                          |
| JAN.  |                                    |                                                                |                                                     |                                                            |                                                   |                                                       |                                             |                   |                                          |                                                             |
| 10... | 9.3                                | --                                                             | 2.0                                                 | 30000                                                      | 800                                               | 25                                                    | --                                          | --                | --                                       | --                                                          |
| 29... | 8.8                                | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | 12                                          | 4                 | --                                       | --                                                          |
| FEB.  |                                    |                                                                |                                                     |                                                            |                                                   |                                                       |                                             |                   |                                          |                                                             |
| 28... | 11.2                               | --                                                             | 1.4                                                 | --                                                         | --                                                | --                                                    | --                                          | --                | --                                       | --                                                          |
| MAR.  |                                    |                                                                |                                                     |                                                            |                                                   |                                                       |                                             |                   |                                          |                                                             |
| 27... | 9.4                                | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                | --                                       | --                                                          |
| 27... | 10.3                               | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                | --                                       | --                                                          |
| SEP.  |                                    |                                                                |                                                     |                                                            |                                                   |                                                       |                                             |                   |                                          |                                                             |
| 11... | 7.2                                | 14                                                             | --                                                  | --                                                         | 190                                               | 313                                                   | 6.6                                         | --                | 42                                       | 17                                                          |

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

02476500 - SOWASHEE CR AT MERIDIAN, MISS

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE          | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | TOTAL<br>IRON<br>(FE)<br>(UG/L) | DIS-<br>SOLVED<br>MANG-<br>NESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>MANG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJFL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) |
|---------------|------|------------------------------------------|---------------------------------|---------------------------------------------------|----------------------------------------------------------|------------------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------------|-------------------------------------------|
| DEC.<br>06... | 1130 | 21                                       | --                              | --                                                | --                                                       | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        | --                                        |
| JAN.<br>10... | 1530 | 100                                      | --                              | --                                                | --                                                       | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        | --                                        |
| 29...         | 1130 | 203                                      | --                              | --                                                | --                                                       | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        | --                                        |
| MAR.<br>27... | 1100 | 179                                      | 5700                            | 220                                               | 2.3                                                      | .13                                                  | --                                        | --                                        | .84                                                      | .97                                     | 4.3                                       | .05                                       |
| SEP.<br>11... | 1100 | 51                                       | --                              | --                                                | --                                                       | .15                                                  | .06                                       | .39                                       | .45                                                      | .60                                     | 2.7                                       | .09                                       |

| DATE       | DIS-SOLVED SOLIDS (RFSIDUE AT 180 C) (MG/L) | DIS-SOLVED SOLIDS (TONS PER AC-FT) | DIS-SOLVED SOLIDS (TONS PER DAY) | SPECIFIC CONDUCTANCE (MICRO-MHOS) | PH (UNITS) | TEMPERATURE (DEG C) | TURBIDITY (JTU) | DIS-SOLVED OXYGEN (MG/L) | CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) | BIO-CHEMICAL OXYGEN DEMAND (MG/L) | IMMEDIATE COLIFORM (COL. PER 100 ML) | FECAL COLIFORM (COL. PER 100 ML) |
|------------|---------------------------------------------|------------------------------------|----------------------------------|-----------------------------------|------------|---------------------|-----------------|--------------------------|--------------------------------------------|-----------------------------------|--------------------------------------|----------------------------------|
| DEC. 06... | --                                          | --                                 | --                               | 80                                | 6.0        | 10.0                | --              | 10.6                     | --                                         | 2.1                               | --                                   | --                               |
| JAN. 10... | --                                          | --                                 | --                               | 58                                | 5.9        | 16.0                | --              | 10.0                     | --                                         | 1.8                               | 25000                                | 400                              |
| JAN. 29... | --                                          | --                                 | --                               | 53                                | 6.5        | 14.0                | --              | 9.6                      | --                                         | --                                | --                                   | --                               |
| MAR. 27... | 53                                          | .07                                | 25.6                             | 78                                | --         | 13.0                | --              | --                       | --                                         | --                                | --                                   | --                               |
| SEP. 11... | 60                                          | .08                                | 8.36                             | 75                                | 6.1        | 24.0                | 40              | 7.2                      | 16                                         | --                                | --                                   | 688                              |

[illegible]



## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

223

02476600 - OKATIBBEE CREEK AT ARUNDEL, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE  | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) |
|-------|------|------------------------------------------|---------------------------------------------------|------------------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------------|
| DEC.  |      |                                          |                                                   |                                                      |                                           |                                           |                                                          |                                         |                                           |
| 06... | 1230 | --                                       | --                                                | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| 13... | 1100 | --                                       | --                                                | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| 19... | 1430 | --                                       | --                                                | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| JAN.  |      |                                          |                                                   |                                                      |                                           |                                           |                                                          |                                         |                                           |
| 10... | 1745 | --                                       | --                                                | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| 18... | 1330 | --                                       | --                                                | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| 29... | 0900 | --                                       | 4.1                                               | .10                                                  | --                                        | --                                        | .38                                                      | .48                                     | 2.1                                       |
| FEB.  |      |                                          |                                                   |                                                      |                                           |                                           |                                                          |                                         |                                           |
| 28... | 1030 | --                                       | 3.7                                               | .13                                                  | --                                        | --                                        | .38                                                      | .51                                     | 2.3                                       |
| MAR.  |      |                                          |                                                   |                                                      |                                           |                                           |                                                          |                                         |                                           |
| 15... | 1100 | --                                       | --                                                | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| 27... | 1020 | --                                       | --                                                | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        |
| SEP.  |      |                                          |                                                   |                                                      |                                           |                                           |                                                          |                                         |                                           |
| 11... | 1400 | 239                                      | --                                                | .13                                                  | .38                                       | .53                                       | .91                                                      | 1.0                                     | 4.6                                       |

| DATE  | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | TUR-<br>BID-<br>ITY<br>(JTU) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|-------------------------------------------|------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------|------------------------------------|
| DEC.  |                                           |                                                                  |                                                    |                                                  |                                                            |               |                             |                              |                                    |
| 06... | --                                        | --                                                               | --                                                 | --                                               | 110                                                        | 6.1           | 12.0                        | --                           | 8.3                                |
| 13... | --                                        | --                                                               | --                                                 | --                                               | 160                                                        | 6.6           | 13.0                        | --                           | 6.5                                |
| 19... | --                                        | --                                                               | --                                                 | --                                               | 150                                                        | 6.5           | 10.0                        | --                           | 8.0                                |
| JAN.  |                                           |                                                                  |                                                    |                                                  |                                                            |               |                             |                              |                                    |
| 10... | --                                        | --                                                               | --                                                 | --                                               | 73                                                         | 5.8           | 15.0                        | --                           | 8.5                                |
| 18... | --                                        | --                                                               | --                                                 | --                                               | 50                                                         | 6.3           | 13.0                        | --                           | 9.9                                |
| 29... | .09                                       | 46                                                               | .06                                                | --                                               | 52                                                         | 6.4           | 14.5                        | --                           | 9.0                                |
| FEB.  |                                           |                                                                  |                                                    |                                                  |                                                            |               |                             |                              |                                    |
| 28... | .06                                       | 39                                                               | .05                                                | --                                               | 46                                                         | 5.6           | 10.0                        | --                           | 10.6                               |
| MAR.  |                                           |                                                                  |                                                    |                                                  |                                                            |               |                             |                              |                                    |
| 15... | --                                        | --                                                               | --                                                 | --                                               | 66                                                         | 6.2           | 15.5                        | --                           | 8.2                                |
| 27... | --                                        | --                                                               | --                                                 | --                                               | 77                                                         | 5.8           | 13.0                        | --                           | 8.9                                |
| SEP.  |                                           |                                                                  |                                                    |                                                  |                                                            |               |                             |                              |                                    |
| 11... | .22                                       | 66                                                               | .09                                                | 42.6                                             | 85                                                         | 6.2           | 25.1                        | 30                           | 6.2                                |

| DATE  | CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(HIGH<br>LEVEL)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) | IMME-<br>DIATE<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | PHENOLS<br>(UG/L) | SUS-<br>PENDE<br>SEDI-<br>MENT<br>(MG/L) | SUS-<br>PENDE<br>SEDI-<br>MENT<br>DIS-<br>CHARGE<br>(T/DAY) |
|-------|----------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|---------------------------------------------|-------------------|------------------------------------------|-------------------------------------------------------------|
| DEC.  |                                                                |                                                     |                                                            |                                                   |                                                       |                                             |                   |                                          |                                                             |
| 06... | --                                                             | 6.8                                                 | --                                                         | --                                                | --                                                    | --                                          | --                | --                                       | --                                                          |
| 13... | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                | --                                       | --                                                          |
| 19... | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                | --                                       | --                                                          |
| JAN.  |                                                                |                                                     |                                                            |                                                   |                                                       |                                             |                   |                                          |                                                             |
| 10... | --                                                             | 5.0                                                 | 50000                                                      | 3000                                              | 3000                                                  | --                                          | --                | --                                       | --                                                          |
| 18... | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                | --                                       | --                                                          |
| 29... | 65                                                             | --                                                  | --                                                         | --                                                | --                                                    | 9.5                                         | 13                | --                                       | --                                                          |
| FEB.  |                                                                |                                                     |                                                            |                                                   |                                                       |                                             |                   |                                          |                                                             |
| 28... | 24                                                             | 1.9                                                 | 15000                                                      | 20000                                             | 124                                                   | 7.0                                         | 6                 | --                                       | --                                                          |
| MAR.  |                                                                |                                                     |                                                            |                                                   |                                                       |                                             |                   |                                          |                                                             |
| 15... | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                | --                                       | --                                                          |
| 27... | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                | --                                       | --                                                          |
| SEP.  |                                                                |                                                     |                                                            |                                                   |                                                       |                                             |                   |                                          |                                                             |
| 11... | 16                                                             | --                                                  | --                                                         | 1510                                              | 307                                                   | 6.0                                         | --                | 57                                       | 37                                                          |

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

02477500 - CHICKASAWHAY RIVER NEAR WAYNESBORO, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE          | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG) | TOTAL<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL-<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) |
|---------------|------|------------------------------------------|--------------------------------------------------|-----------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-----------------------------------------------------------|-----------------------------------------|-------------------------------------------|
| DEC.<br>05... | 1445 | 1540                                     | --                                               | --                                            | --                                        | --                                        | --                                        | --                                                        | --                                      | --                                        |
| FEB.<br>27... | 1445 | 3800                                     | 7.0                                              | 1.3                                           | --                                        | --                                        | --                                        | --                                                        | --                                      | --                                        |
| MAR.<br>27... | 1500 | 2940                                     | --                                               | --                                            | --                                        | --                                        | --                                        | --                                                        | --                                      | --                                        |
| SEP.<br>10... | 1410 | 7940                                     | --                                               | --                                            | .09                                       | .07                                       | .55                                       | .62                                                       | .71                                     | 3.1                                       |

| DATE          | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | TUR-<br>BID-<br>ITY<br>(JTU) |
|---------------|-------------------------------------------|------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------|
| DEC.<br>05... | --                                        | --                                                               | --                                                 | --                                               | --                                 | 130                                                        | 6.1           | 15.0                        | --                           |
| FEB.<br>27... | --                                        | 69                                                               | .09                                                | 708                                              | 23                                 | 97                                                         | 6.3           | 10.0                        | --                           |
| MAR.<br>27... | --                                        | --                                                               | --                                                 | --                                               | --                                 | 138                                                        | 6.7           | 14.5                        | --                           |
| SEP.<br>10... | .07                                       | 65                                                               | .09                                                | 1390                                             | --                                 | 80                                                         | 6.1           | 24.0                        | 40                           |

| DATE          | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(HIGH<br>LEVEL)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) | IMME-<br>DIATE<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | SUS-<br>PENDED<br>SEDIM-<br>ENT<br>(MG/L) | SUS-<br>PENDED<br>SEDIM-<br>ENT<br>DIS-<br>CHARGE<br>(T/DAY) |
|---------------|------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|---------------------------------------------|-------------------------------------------|--------------------------------------------------------------|
| DEC.<br>05... | 8.7                                | --                                                             | 2.4                                                 | 51000                                                      | 440                                               | 400                                                   | --                                          | --                                        | --                                                           |
| FEB.<br>27... | 10.3                               | --                                                             | 1.2                                                 | --                                                         | --                                                | --                                                    | --                                          | --                                        | --                                                           |
| MAR.<br>27... | 9.6                                | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | --                                        | --                                                           |
| SEP.<br>10... | 6.8                                | 28                                                             | --                                                  | --                                                         | 240                                               | 987                                                   | 8.4                                         | 145                                       | 3110                                                         |

02477990 - BUCKATUNNA CREEK NEAR DENHAM, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE          | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | TOTAL<br>IRON<br>(FE)<br>(UG/L) | DIS-<br>SOLVED<br>MANG-<br>ANESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL-<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) |
|---------------|------|------------------------------------------|---------------------------------|----------------------------------------------------|---------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------|-------------------------------------------|
| DEC.<br>05... | 1530 | 850                                      | --                              | --                                                 | --                                                      | --                                                   | --                                                        | --                                      | --                                        |
| MAR.<br>27... | 1350 | 2340                                     | 4100                            | 50                                                 | .9                                                      | .07                                                  | .93                                                       | 1.0                                     | 4.4                                       |

| DATE          | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) |
|---------------|-------------------------------------------|------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|-----------------------------------------------------|
| DEC.<br>05... | --                                        | --                                                               | --                                                 | --                                               | 125                                                        | 6.3           | 14.5                        | 9.3                                | 1.9                                                 |
| MAR.<br>27... | .01                                       | 65                                                               | .09                                                | 411                                              | 91                                                         | 6.1           | 13.5                        | 9.6                                | --                                                  |

| DATE          | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | DIS-<br>SOLVED<br>ARSENIC<br>(AS)<br>(UG/L) | DIS-<br>SOLVED<br>CAD-<br>MIUM<br>(CD)<br>(UG/L) | DIS-<br>SOLVED<br>CHRO-<br>MIUM<br>(CR)<br>(UG/L) | DIS-<br>SOLVED<br>COPPER<br>(CU)<br>(UG/L) | DIS-<br>SOLVED<br>LEAD<br>(PB)<br>(UG/L) | DIS-<br>SOLVED<br>MERCURY<br>(HG)<br>(UG/L) | DIS-<br>SOLVED<br>SELE-<br>NIUM<br>(SE)<br>(UG/L) | DIS-<br>SOLVED<br>ZINC<br>(ZN)<br>(UG/L) |
|---------------|---------------------------------------------|---------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------|------------------------------------------|---------------------------------------------|---------------------------------------------------|------------------------------------------|
| DEC.<br>05... | --                                          | --                                          | --                                               | --                                                | --                                         | --                                       | --                                          | --                                                | --                                       |
| MAR.<br>27... | 14                                          | 10                                          | 1                                                | 1                                                 | 3                                          | 3                                        | .0                                          | 3                                                 | 40                                       |

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

225

02478500 - CHICKASAWHAY RIVER AT LEAKESVILLE, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE          | TIME | INSTANTANEOUS<br>DIS-CHARGE<br>(CFS) | DIS-SOLVED<br>CALCIUM<br>(CA)<br>(MG/L) | DIS-SOLVED<br>MAGNESIUM<br>(MG)<br>(MG/L) | DIS-SOLVED<br>CHLORIDE<br>(CL)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITROGEN<br>(N)<br>(MG/L) | ORGANIC<br>NITROGEN<br>(N)<br>(MG/L) | TOTAL<br>KJELDAHL<br>NITROGEN<br>(N)<br>(MG/L) | TOTAL<br>NITROGEN<br>(N)<br>(MG/L) |
|---------------|------|--------------------------------------|-----------------------------------------|-------------------------------------------|------------------------------------------|------------------------------------------------------|--------------------------------------|--------------------------------------|------------------------------------------------|------------------------------------|
| DEC.<br>06... | 1740 | 3320                                 | --                                      | --                                        | --                                       | --                                                   | --                                   | --                                   | --                                             | --                                 |
| JAN.<br>30... | 1315 | 16700                                | 6.0                                     | .9                                        | 9.2                                      | .16                                                  | --                                   | --                                   | .37                                            | .53                                |
| FEB.<br>27... | 1300 | 9690                                 | 2.6                                     | 1.1                                       | --                                       | --                                                   | --                                   | --                                   | --                                             | --                                 |
| MAR.<br>27... | 1630 | 8220                                 | --                                      | --                                        | --                                       | --                                                   | --                                   | --                                   | --                                             | --                                 |
| SEP.<br>10... | 1600 | 11310                                | --                                      | --                                        | --                                       | .06                                                  | .03                                  | .59                                  | .62                                            | .68                                |

| DATE          | TOTAL<br>NITROGEN<br>(NO3)<br>(MG/L) | TOTAL<br>PHOSPHORUS<br>(P)<br>(MG/L) | DIS-SOLVED<br>SOLIDS<br>(RESIDUE AT<br>180 C)<br>(MG/L) | DIS-SOLVED<br>SOLIDS<br>(TONS PER<br>AC-FT) | DIS-SOLVED<br>SOLIDS<br>(TONS PER<br>DAY) | HARDNESS<br>(CA+MG)<br>(MG/L) | SPECIFIC<br>CONDUCTANCE<br>(MICROMHOS) | PH<br>(UNITS) | TEMPERATURE<br>(DEG C) | TURBIDITY<br>(JTU) |
|---------------|--------------------------------------|--------------------------------------|---------------------------------------------------------|---------------------------------------------|-------------------------------------------|-------------------------------|----------------------------------------|---------------|------------------------|--------------------|
| DEC.<br>06... | --                                   | --                                   | --                                                      | --                                          | --                                        | --                            | 130                                    | 6.8           | 13.5                   | --                 |
| JAN.<br>30... | 2.3                                  | .33                                  | 63                                                      | .09                                         | 2840                                      | 19                            | 67                                     | 6.1           | 16.0                   | --                 |
| FEB.<br>27... | --                                   | --                                   | 57                                                      | .08                                         | 1490                                      | 11                            | 75                                     | 6.0           | 10.0                   | --                 |
| MAR.<br>27... | --                                   | --                                   | --                                                      | --                                          | --                                        | --                            | 57                                     | 5.8           | 14.5                   | --                 |
| SEP.<br>10... | 3.0                                  | .09                                  | 85                                                      | .12                                         | 2600                                      | --                            | 75                                     | 6.0           | 23.0                   | 70                 |

| DATE          | DIS-SOLVED<br>OXYGEN<br>(MG/L) | CHEMICAL<br>OXYGEN<br>DEMAND<br>(HIGH LEVEL)<br>(MG/L) | BIO-CHEMICAL<br>OXYGEN<br>DEMAND<br>(MG/L) | FECAL<br>COLIFORM<br>(COL. PER<br>100 ML) | STREPTOCOCCI<br>(COLONIES<br>PER<br>100 ML) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | PHENOLS<br>(UG/L) | SUSPENDED<br>SEDIMENT<br>(MG/L) | SUSPENDED<br>SEDIMENT<br>DISCHARGE<br>(T/DAY) |
|---------------|--------------------------------|--------------------------------------------------------|--------------------------------------------|-------------------------------------------|---------------------------------------------|---------------------------------------------|-------------------|---------------------------------|-----------------------------------------------|
| DEC.<br>06... | 9.7                            | --                                                     | 1.6                                        | --                                        | --                                          | --                                          | --                | --                              | --                                            |
| JAN.<br>30... | 8.5                            | --                                                     | --                                         | --                                        | --                                          | --                                          | 8                 | --                              | --                                            |
| FEB.<br>27... | 9.8                            | --                                                     | 1.0                                        | --                                        | --                                          | --                                          | --                | --                              | --                                            |
| MAR.<br>27... | 9.7                            | --                                                     | --                                         | --                                        | --                                          | --                                          | --                | --                              | --                                            |
| SEP.<br>10... | 6.6                            | 28                                                     | --                                         | 233                                       | 700                                         | 12                                          | --                | 204                             | 6230                                          |

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

02479130 - BLACK CREEK NEAR BROOKLYN, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE          | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) |
|---------------|------|------------------------------------------|--------------------------------------------------|---------------------------------------------------------|---------------------------------------------------|------------------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------------|-----------------------------------------|
| DEC.<br>06... | 1400 | 596                                      | --                                               | --                                                      | --                                                | --                                                   | --                                        | --                                        | --                                                       | --                                      |
| JAN.<br>29... | 1400 | 2440                                     | 1.4                                              | .5                                                      | 3.7                                               | .03                                                  | --                                        | --                                        | .47                                                      | .50                                     |
| FEB.<br>26... | 1415 | 685                                      | .4                                               | .6                                                      | --                                                | --                                                   | --                                        | --                                        | --                                                       | --                                      |
| SEP.<br>11... | 1000 | 2750                                     | --                                               | --                                                      | --                                                | .03                                                  | .03                                       | .44                                       | .47                                                      | .50                                     |

| DATE          | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) | DIS-<br>SOLVED<br>SOLIDS<br>(TUNS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | TUR-<br>BID-<br>ITY<br>(JTU) |
|---------------|-------------------------------------------|-------------------------------------------|------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------|
| DEC.<br>06... | --                                        | --                                        | --                                                               | --                                                 | --                                               | --                                 | 34                                                         | 6.2           | 13.0                        | --                           |
| JAN.<br>29... | 2.2                                       | .03                                       | 60                                                               | .08                                                | 395                                              | 6                                  | 22                                                         | 5.7           | 17.0                        | --                           |
| FEB.<br>26... | --                                        | --                                        | 32                                                               | .04                                                | 59.2                                             | 3                                  | 30                                                         | 5.2           | 10.0                        | --                           |
| SEP.<br>11... | 2.2                                       | .04                                       | 30                                                               | .04                                                | 223                                              | --                                 | 26                                                         | 5.4           | 22.5                        | 20                           |

| DATE          | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(HIGH<br>LEVEL)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) | IMME-<br>DIATE<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | PHENOLS<br>(UG/L) | SUS-<br>PENDE<br>SEDIM-<br>ENT<br>(MG/L) | SUS-<br>PENDE<br>SEDIM-<br>ENT<br>DIS-<br>CHARGE<br>(T/DAY) |
|---------------|------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|---------------------------------------------|-------------------|------------------------------------------|-------------------------------------------------------------|
| DEC.<br>06... | 9.7                                | --                                                             | 1.3                                                 | 81000                                                      | 5100                                              | 125                                                   | --                                          | --                | --                                       | --                                                          |
| JAN.<br>29... | 9.5                                | --                                                             | --                                                  | --                                                         | --                                                | --                                                    | --                                          | 4                 | --                                       | --                                                          |
| FEB.<br>26... | 10.5                               | --                                                             | .7                                                  | --                                                         | --                                                | --                                                    | --                                          | --                | --                                       | --                                                          |
| SEP.<br>11... | 6.8                                | 36                                                             | --                                                  | --                                                         | 870                                               | 167                                                   | 12                                          | --                | 89                                       | 661                                                         |

## PEARL RIVER BASIN

02442550 - PEARL RIVER NEAR CARTHAGE, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE          | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL-<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) |
|---------------|------|------------------------------------------|--------------------------------------------------|---------------------------------------------------------|------------------------------------------------------|-------------------------------------------|-------------------------------------------|-----------------------------------------------------------|-----------------------------------------|
| MAR.<br>27... | 1340 | 3890                                     | --                                               | --                                                      | --                                                   | --                                        | --                                        | --                                                        | --                                      |
| MAY<br>01...  | 1430 | 1960                                     | 6.2                                              | 1.5                                                     | --                                                   | --                                        | --                                        | --                                                        | --                                      |
| SEP.<br>10... | 1000 | 897                                      | --                                               | --                                                      | .13                                                  | .05                                       | .49                                       | .54                                                       | .67                                     |

| DATE          | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) |
|---------------|-------------------------------------------|-------------------------------------------|--------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|------------------------------------|------------------------------------------------------------|---------------|-----------------------------|
| MAR.<br>27... | --                                        | --                                        | --                                                     | --                                                 | --                                               | --                                 | 44                                                         | 5.3           | 14.0                        |
| MAY<br>01...  | --                                        | --                                        | 22                                                     | .03                                                | 116                                              | 22                                 | 43                                                         | 6.5           | 21.0                        |
| SEP.<br>10... | 3.0                                       | .12                                       | 53                                                     | .07                                                | 128                                              | --                                 | 52                                                         | 6.1           | 21.9                        |

| DATE          | TUR-<br>BID-<br>ITY<br>(JTU) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(HIGH<br>LEVEL)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | SUS-<br>PENDED<br>SEDI-<br>MENT<br>(MG/L) | SUS-<br>PENDED<br>SEDI-<br>MENT<br>DIS-<br>CHARGE<br>(T/DAY) |
|---------------|------------------------------|------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|---------------------------------------------|-------------------------------------------|--------------------------------------------------------------|
| MAR.<br>27... | --                           | 4.9                                | --                                                             | --                                                  | --                                                | --                                                    | --                                          | --                                        | --                                                           |
| MAY<br>01...  | --                           | 6.1                                | --                                                             | .7                                                  | --                                                | --                                                    | --                                          | --                                        | --                                                           |
| SEP.<br>10... | 40                           | 7.1                                | 20                                                             | --                                                  | 466                                               | 8153                                                  | 10                                          | 65                                        | 157                                                          |

02445601 - PEARL RIVER AT BARNETT RE NEAR JACKSON, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE          | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL-<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) |
|---------------|------|------------------------------------------|--------------------------------------------------|---------------------------------------------------------|------------------------------------------------------|-------------------------------------------|-------------------------------------------|-----------------------------------------------------------|-----------------------------------------|
| MAY<br>01...  | 1200 | 1600                                     | 4.8                                              | 1.0                                                     | --                                                   | --                                        | --                                        | --                                                        | --                                      |
| SEP.<br>12... | 1100 | 1880                                     | --                                               | --                                                      | .04                                                  | .03                                       | .49                                       | .52                                                       | .56                                     |

| DATE          | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) |
|---------------|-------------------------------------------|-------------------------------------------|--------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|------------------------------------|------------------------------------------------------------|---------------|-----------------------------|
| MAY<br>01...  | --                                        | --                                        | 30                                                     | .04                                                | 130                                              | 16                                 | 42                                                         | 6.6           | 21.0                        |
| SEP.<br>12... | 2.5                                       | .05                                       | 36                                                     | .05                                                | 183                                              | --                                 | 46                                                         | 6.7           | 24.2                        |

| DATE          | TUR-<br>BID-<br>ITY<br>(JTU) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(HIGH<br>LEVEL)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | SUS-<br>PENDED<br>SEDI-<br>MENT<br>(MG/L) | SUS-<br>PENDED<br>SEDI-<br>MENT<br>DIS-<br>CHARGE<br>(T/DAY) |
|---------------|------------------------------|------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|---------------------------------------------|-------------------------------------------|--------------------------------------------------------------|
| MAY<br>01...  | --                           | 7.9                                | --                                                             | .6                                                  | --                                                | --                                                    | --                                          | --                                        | --                                                           |
| SEP.<br>12... | 5                            | 9.1                                | 14                                                             | --                                                  | 253                                               | 8113                                                  | 10                                          | 12                                        | 61                                                           |

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

02486500 - PEARL RIVER NR BYRAM, MISS

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL-<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) |
|-------|------|-----------------------------------------------|---------------------------------------------------|------------------------------------------------------|-------------------------------------------|-------------------------------------------|-----------------------------------------------------------|-----------------------------------------|-------------------------------------------|
| DEC.  |      |                                               |                                                   |                                                      |                                           |                                           |                                                           |                                         |                                           |
| 07... | 0830 | 9800                                          | --                                                | --                                                   | --                                        | --                                        | --                                                        | --                                      | --                                        |
| 12... | 0830 | 5540                                          | --                                                | --                                                   | --                                        | --                                        | --                                                        | --                                      | --                                        |
| 18... | 0915 | 2400                                          | --                                                | --                                                   | --                                        | --                                        | --                                                        | --                                      | --                                        |
| JAN.  |      |                                               |                                                   |                                                      |                                           |                                           |                                                           |                                         |                                           |
| 30... | 1530 | 39000                                         | 3.3                                               | .04                                                  | --                                        | --                                        | .19                                                       | .23                                     | 1.0                                       |
| MAR.  |      |                                               |                                                   |                                                      |                                           |                                           |                                                           |                                         |                                           |
| 26... | 1000 | 5020                                          | --                                                | --                                                   | --                                        | --                                        | --                                                        | --                                      | --                                        |
| SEP.  |      |                                               |                                                   |                                                      |                                           |                                           |                                                           |                                         |                                           |
| 12... | 0900 | 2150                                          | --                                                | .10                                                  | .30                                       | .80                                       | 1.1                                                       | 1.2                                     | 5.3                                       |

| DATE  | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | SPE-<br>CIFIC<br>CON-<br>DUCTI-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | TUR-<br>BID-<br>ITY<br>(JTU) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|-------------------------------------------|------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------|---------------|-----------------------------|------------------------------|------------------------------------|
| DEC.  |                                           |                                                                  |                                                    |                                                  |                                                             |               |                             |                              |                                    |
| 07... | --                                        | --                                                               | --                                                 | --                                               | 95                                                          | 5.8           | 13.0                        | --                           | 10.6                               |
| 12... | --                                        | --                                                               | --                                                 | --                                               | 73                                                          | 6.8           | 9.0                         | --                           | 10.4                               |
| 18... | --                                        | --                                                               | --                                                 | --                                               | 75                                                          | 6.5           | 7.0                         | --                           | 11.8                               |
| JAN.  |                                           |                                                                  |                                                    |                                                  |                                                             |               |                             |                              |                                    |
| 30... | .10                                       | 45                                                               | .06                                                | 4740                                             | 52                                                          | 6.3           | 14.8                        | --                           | 6.6                                |
| MAR.  |                                           |                                                                  |                                                    |                                                  |                                                             |               |                             |                              |                                    |
| 26... | --                                        | --                                                               | --                                                 | --                                               | 47                                                          | 7.1           | 14.0                        | --                           | 7.8                                |
| SEP.  |                                           |                                                                  |                                                    |                                                  |                                                             |               |                             |                              |                                    |
| 12... | .28                                       | 66                                                               | .09                                                | 383                                              | 63                                                          | 6.5           | 24.7                        | 40                           | 5.6                                |

| DATE  | CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(HIGH<br>LEVEL)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | PHENOLS<br>(UG/L) | SUS-<br>PENDE<br>SEDIM-<br>MENT<br>(MG/L) | SUS-<br>PENDE<br>SEDIM-<br>MENT<br>DIS-<br>CHARGE<br>(T/DAY) |
|-------|----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|---------------------------------------------------------|---------------------------------------------|-------------------|-------------------------------------------|--------------------------------------------------------------|
| DEC.  |                                                                |                                                     |                                                   |                                                         |                                             |                   |                                           |                                                              |
| 07... | --                                                             | 1.3                                                 | --                                                | --                                                      | --                                          | --                | --                                        | --                                                           |
| 12... | --                                                             | --                                                  | --                                                | --                                                      | --                                          | --                | --                                        | --                                                           |
| 18... | --                                                             | --                                                  | --                                                | --                                                      | --                                          | --                | --                                        | --                                                           |
| JAN.  |                                                                |                                                     |                                                   |                                                         |                                             |                   |                                           |                                                              |
| 30... | 18                                                             | --                                                  | --                                                | --                                                      | 9.5                                         | 0                 | --                                        | --                                                           |
| MAR.  |                                                                |                                                     |                                                   |                                                         |                                             |                   |                                           |                                                              |
| 26... | --                                                             | --                                                  | --                                                | --                                                      | --                                          | --                | --                                        | --                                                           |
| SEP.  |                                                                |                                                     |                                                   |                                                         |                                             |                   |                                           |                                                              |
| 12... | 20                                                             | --                                                  | 17800                                             | 1530                                                    | 6.2                                         | --                | 66                                        | 383                                                          |



## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

229

02487000 - PEARL RIVER NEAR GEORGETOWN, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE          | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) |
|---------------|------|-----------------------------------------------|--------------------------------------------------|---------------------------------------------------------|---------------------------------------------------|------------------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------------|-----------------------------------------|
| FEB.<br>27... | 1100 | 27000                                         | 2.1                                              | .9                                                      | 2.8                                               | .11                                                  | --                                        | --                                        | .41                                                      | .52                                     |
| SFP.<br>09... | 1400 | 4900                                          | --                                               | --                                                      | --                                                | .13                                                  | .17                                       | .59                                       | .76                                                      | .89                                     |

| DATE          | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | TUR-<br>BID-<br>ITY<br>(JTU) |
|---------------|-------------------------------------------|-------------------------------------------|------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------|
| FEB.<br>27... | 2.3                                       | .12                                       | 44                                                               | .06                                                | 3210                                             | 9                                  | 45                                                         | 6.4           | 10.5                        | --                           |
| SFP.<br>09... | 3.9                                       | .23                                       | 45                                                               | .06                                                | 595                                              | --                                 | 60                                                         | 6.3           | 24.0                        | 50                           |

| DATE          | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(HIGH<br>LEVEL)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | PHENOLS<br>(UG/L) | SUS-<br>PENDE<br>SEDI-<br>MENT<br>(MG/L) | SUS-<br>PENDE<br>SEDI-<br>MENT<br>DIS-<br>CHARGE<br>(T/DAY) |
|---------------|------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|---------------------------------------------|-------------------|------------------------------------------|-------------------------------------------------------------|
| FEB.<br>27... | 9.7                                | --                                                             | 1.2                                                 | --                                                | --                                                    | 8.1                                         | 5                 | --                                       | --                                                          |
| SFP.<br>09... | 5.7                                | 20                                                             | --                                                  | 4100                                              | 323                                                   | 5.5                                         | --                | 47                                       | 622                                                         |

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

02489000 - PEARL RIVER NEAR COLUMBIA, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE  | TIME | INSTANTANEOUS DIS-CHARGE (CFS) | DIS-SOLVED CHLORIDE (CL) (MG/L) | TOTAL NITRITE PLUS NITRATE (N) (MG/L) | AMMONIA NITRO-GEN (N) (MG/L) | ORGANIC NITRO-GEN (N) (MG/L) | TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (N) (MG/L) | TOTAL NITRO-GEN (NO3) (MG/L) |
|-------|------|--------------------------------|---------------------------------|---------------------------------------|------------------------------|------------------------------|--------------------------------------|----------------------------|------------------------------|
| DEC.  |      |                                |                                 |                                       |                              |                              |                                      |                            |                              |
| 07... | 0900 | 12800                          | --                              | --                                    | --                           | --                           | --                                   | --                         | --                           |
| 12... | 1230 | 8920                           | --                              | --                                    | --                           | --                           | --                                   | --                         | --                           |
| 18... | 1300 | 4030                           | --                              | --                                    | --                           | --                           | --                                   | --                         | --                           |
| JAN.  |      |                                |                                 |                                       |                              |                              |                                      |                            |                              |
| 17... | 1300 | 30400                          | --                              | --                                    | --                           | --                           | --                                   | --                         | --                           |
| FEB.  |      |                                |                                 |                                       |                              |                              |                                      |                            |                              |
| 27... | 1530 | 47900                          | 3.1                             | .01                                   | --                           | --                           | .46                                  | .47                        | 2.1                          |
| MAR.  |      |                                |                                 |                                       |                              |                              |                                      |                            |                              |
| 15... | 1000 | 10500                          | --                              | --                                    | --                           | --                           | --                                   | --                         | --                           |
| 26... | --   | 7420                           | --                              | --                                    | --                           | --                           | --                                   | --                         | --                           |
| SEP.  |      |                                |                                 |                                       |                              |                              |                                      |                            |                              |
| 12... | 1000 | 6564                           | --                              | .00                                   | .00                          | .59                          | .59                                  | .59                        | 2.6                          |

| DATE  | TOTAL PHOS-PHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L) | DIS-SOLVED SOLIDS (TONS PER AC-FT) | DIS-SOLVED SOLIDS (TONS PER DAY) | SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS) | PH (UNITS) | TEMPER-ATURE (DEG C) | TUR-BID-ITY (JTU) | DIS-SOLVED OXYGEN (MG/L) |
|-------|------------------------------|----------------------------------------------|------------------------------------|----------------------------------|--------------------------------------|------------|----------------------|-------------------|--------------------------|
| DEC.  |                              |                                              |                                    |                                  |                                      |            |                      |                   |                          |
| 07... | --                           | --                                           | --                                 | --                               | 70                                   | 6.8        | 13.0                 | --                | 9.4                      |
| 12... | --                           | --                                           | --                                 | --                               | 87                                   | 6.4        | 11.0                 | --                | 10.8                     |
| 18... | --                           | --                                           | --                                 | --                               | 95                                   | 6.4        | 10.0                 | --                | 9.3                      |
| JAN.  |                              |                                              |                                    |                                  |                                      |            |                      |                   |                          |
| 17... | --                           | --                                           | --                                 | --                               | 50                                   | 6.2        | 12.5                 | --                | 9.6                      |
| FEB.  |                              |                                              |                                    |                                  |                                      |            |                      |                   |                          |
| 27... | .13                          | 45                                           | .06                                | 5820                             | 48                                   | 6.1        | 12.0                 | --                | 8.4                      |
| MAR.  |                              |                                              |                                    |                                  |                                      |            |                      |                   |                          |
| 15... | --                           | --                                           | --                                 | --                               | 60                                   | 6.3        | 17.0                 | --                | 7.9                      |
| 26... | --                           | --                                           | --                                 | --                               | 40                                   | 6.8        | 14.0                 | --                | 6.5                      |
| SEP.  |                              |                                              |                                    |                                  |                                      |            |                      |                   |                          |
| 12... | .16                          | 44                                           | .06                                | 780                              | 70                                   | 5.8        | 25.0                 | 40                | 6.2                      |

| DATE  | CHEM-ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) | BIO-CHEM-ICAL OXYGEN DEMAND (MG/L) | IMME-DIATE COLI-FORM (COL. PER 100 ML) | FECAL COLI-FORM (COL. PER 100 ML) | STREP-TOCOCCI (COL-ONIES PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | PHENOLS (UG/L) | SUS-PENDED SEDI-MENT (MG/L) | SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY) |
|-------|---------------------------------------------|------------------------------------|----------------------------------------|-----------------------------------|--------------------------------------|---------------------------------|----------------|-----------------------------|-----------------------------------------|
| DEC.  |                                             |                                    |                                        |                                   |                                      |                                 |                |                             |                                         |
| 07... | --                                          | 1.2                                | 9500                                   | 170                               | 395                                  | --                              | --             | --                          | --                                      |
| 12... | --                                          | --                                 | --                                     | --                                | --                                   | --                              | --             | --                          | --                                      |
| 18... | --                                          | --                                 | --                                     | --                                | --                                   | --                              | --             | --                          | --                                      |
| JAN.  |                                             |                                    |                                        |                                   |                                      |                                 |                |                             |                                         |
| 17... | --                                          | --                                 | --                                     | --                                | --                                   | --                              | --             | --                          | --                                      |
| FEB.  |                                             |                                    |                                        |                                   |                                      |                                 |                |                             |                                         |
| 27... | 30                                          | 1.1                                | --                                     | --                                | --                                   | 6.8                             | 9              | --                          | --                                      |
| MAR.  |                                             |                                    |                                        |                                   |                                      |                                 |                |                             |                                         |
| 15... | --                                          | --                                 | --                                     | --                                | --                                   | --                              | --             | --                          | --                                      |
| 26... | --                                          | --                                 | --                                     | --                                | --                                   | --                              | --             | --                          | --                                      |
| SEP.  |                                             |                                    |                                        |                                   |                                      |                                 |                |                             |                                         |
| 12... | 24                                          | --                                 | --                                     | 240                               | 8103                                 | 11                              | --             | 88                          | 1560                                    |

02490900 - ROGUE CHITTO NEAR LEHR, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE  | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | DIS-<br>SOLVED<br>PO-<br>THS-<br>SIUM<br>(K)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) |
|-------|------|------------------------------------------|--------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------------|-----------------------------------------|
| DEC.  |      |                                          |                                                  |                                                         |                                                        |                                                      |                                           |                                           |                                                          |                                         |
| 12... | 1030 | 370                                      | --                                               | --                                                      | --                                                     | --                                                   | --                                        | --                                        | --                                                       | --                                      |
| 18... | 1130 | 230                                      | --                                               | --                                                      | --                                                     | --                                                   | --                                        | --                                        | --                                                       | --                                      |
| JAN.  |      |                                          |                                                  |                                                         |                                                        |                                                      |                                           |                                           |                                                          |                                         |
| 17... | 1200 | 860                                      | --                                               | --                                                      | --                                                     | --                                                   | --                                        | --                                        | --                                                       | --                                      |
| FEB.  |      |                                          |                                                  |                                                         |                                                        |                                                      |                                           |                                           |                                                          |                                         |
| 27... | 1400 | 620                                      | 1.1                                              | .8                                                      | 3.7                                                    | --                                                   | --                                        | --                                        | --                                                       | --                                      |
| MAR.  |      |                                          |                                                  |                                                         |                                                        |                                                      |                                           |                                           |                                                          |                                         |
| 15... | 1215 | 550                                      | --                                               | --                                                      | --                                                     | --                                                   | --                                        | --                                        | --                                                       | --                                      |
| 26... | 1230 | --                                       | --                                               | --                                                      | --                                                     | --                                                   | --                                        | --                                        | --                                                       | --                                      |
| SEP.  |      |                                          |                                                  |                                                         |                                                        |                                                      |                                           |                                           |                                                          |                                         |
| 11... | 1100 | 270                                      | --                                               | --                                                      | --                                                     | .18                                                  | .01                                       | .22                                       | .23                                                      | .41                                     |

| DATE  | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) |
|-------|-------------------------------------------|-------------------------------------------|------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|------------------------------------|------------------------------------------------------------|---------------|-----------------------------|
| DEC.  |                                           |                                           |                                                                  |                                                    |                                                  |                                    |                                                            |               |                             |
| 12... | --                                        | --                                        | --                                                               | --                                                 | --                                               | --                                 | 54                                                         | 6.9           | 11.0                        |
| 18... | --                                        | --                                        | --                                                               | --                                                 | --                                               | --                                 | 52                                                         | 6.3           | 9.5                         |
| JAN.  |                                           |                                           |                                                                  |                                                    |                                                  |                                    |                                                            |               |                             |
| 17... | --                                        | --                                        | --                                                               | --                                                 | --                                               | --                                 | 52                                                         | 6.0           | 16.4                        |
| FEB.  |                                           |                                           |                                                                  |                                                    |                                                  |                                    |                                                            |               |                             |
| 27... | --                                        | --                                        | 38                                                               | .05                                                | 63.6                                             | 6                                  | 52                                                         | 5.6           | 12.0                        |
| MAR.  |                                           |                                           |                                                                  |                                                    |                                                  |                                    |                                                            |               |                             |
| 15... | --                                        | --                                        | --                                                               | --                                                 | --                                               | --                                 | 54                                                         | 6.2           | 17.5                        |
| 26... | --                                        | --                                        | --                                                               | --                                                 | --                                               | --                                 | 46                                                         | 6.5           | 14.0                        |
| SEP.  |                                           |                                           |                                                                  |                                                    |                                                  |                                    |                                                            |               |                             |
| 11... | 1.8                                       | .06                                       | 42                                                               | .06                                                | 30.6                                             | --                                 | --                                                         | --            | 23.5                        |

| DATE  | TUR-<br>RID-<br>ITY<br>(JTU) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(HIGH<br>LEVEL)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | SUS-<br>PENDE<br>SEDI-<br>MENT<br>(MG/L) | SUS-<br>PENDE<br>SEDI-<br>MENT<br>DIS-<br>CHARGE<br>(T/DAY) |
|-------|------------------------------|------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|---------------------------------------------|------------------------------------------|-------------------------------------------------------------|
| DEC.  |                              |                                    |                                                                |                                                     |                                                   |                                                       |                                             |                                          |                                                             |
| 12... | --                           | 11.2                               | --                                                             | --                                                  | --                                                | --                                                    | --                                          | --                                       | --                                                          |
| 18... | --                           | 11.4                               | --                                                             | --                                                  | --                                                | --                                                    | --                                          | --                                       | --                                                          |
| JAN.  |                              |                                    |                                                                |                                                     |                                                   |                                                       |                                             |                                          |                                                             |
| 17... | --                           | 9.6                                | --                                                             | --                                                  | --                                                | --                                                    | --                                          | --                                       | --                                                          |
| FEB.  |                              |                                    |                                                                |                                                     |                                                   |                                                       |                                             |                                          |                                                             |
| 27... | --                           | 9.1                                | --                                                             | .8                                                  | --                                                | --                                                    | --                                          | --                                       | --                                                          |
| MAR.  |                              |                                    |                                                                |                                                     |                                                   |                                                       |                                             |                                          |                                                             |
| 15... | --                           | 9.0                                | --                                                             | --                                                  | --                                                | --                                                    | --                                          | --                                       | --                                                          |
| 26... | --                           | 9.3                                | --                                                             | --                                                  | --                                                | --                                                    | --                                          | --                                       | --                                                          |
| SEP.  |                              |                                    |                                                                |                                                     |                                                   |                                                       |                                             |                                          |                                                             |
| 11... | 6                            | 7.8                                | 12                                                             | --                                                  | 45                                                | 8123                                                  | 8.8                                         | 22                                       | 16                                                          |

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

[illegible]

## HATCHIE RIVER BASIN

07029250 - HATCHIE R NR HIPLEY, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

|               |      | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS)    | DIS-<br>SOLVED<br>SILICA<br>(SiO2)<br>(MG/L) | DIS-<br>SOLVED<br>IRON<br>(FE)<br>(UG/L)          | DIS-<br>SOLVED<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L)       | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L)                   | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L)        | HICAR-<br>BONATE<br>(HCO3)<br>(MG/L)                                |                                                    |
|---------------|------|--------------------------------------------------|----------------------------------------------|---------------------------------------------------|----------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------|
| DATE          | TIME |                                                  |                                              |                                                   |                                                    |                                                  |                                                               |                                                              |                                                               |                                                                     |                                                    |
| OCT.<br>30... | 0935 | 16                                               | 9.6                                          | 70                                                | 0                                                  | 2.2                                              | 1.0                                                           | 1.1                                                          | 1.1                                                           | 12                                                                  |                                                    |
|               |      | CAR-<br>BONATE<br>(CO3)<br>(MG/L)                | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L)     | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L)      | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L)  | DIS-<br>SOLVED<br>FLUO-<br>RIDE<br>(F)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHO-<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHO-<br>PHOS-<br>PHATE<br>(PO4)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(SUM OF<br>CONSTI-<br>TUENTS)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) |
| DATE          |      |                                                  |                                              |                                                   |                                                    |                                                  |                                                               |                                                              |                                                               |                                                                     |                                                    |
| OCT.<br>30... | 0    |                                                  | 10                                           | 1.6                                               | 1.9                                                | .3                                               | .05                                                           | .00                                                          | .00                                                           | .25                                                                 | .03                                                |
|               |      | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L)           | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L) | PERCENT<br>SODIUM                                  | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS)    | PH<br>(UNITS)                                                | TEMPER-<br>ATURE<br>(DEG C)                                   | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L)                                  | CARBON<br>DIOXIDE<br>(CO2)<br>(MG/L)               |
| DATE          |      |                                                  |                                              |                                                   |                                                    |                                                  |                                                               |                                                              |                                                               |                                                                     |                                                    |
| OCT.<br>30... | 1.11 |                                                  | 10                                           | 0                                                 | 18                                                 | .2                                               | 26                                                            | 6.4                                                          | 9.0                                                           | 11.5                                                                | 7.6                                                |

07029300 - TUSCUMBIA RIVER CANAL NEAR CORINTH, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

|               |      | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAML<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) |
|---------------|------|-----------------------------------------------|--------------------------------------------------|---------------------------------------------------------|---------------------------------------------------|------------------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------------|-----------------------------------------|
| DATE          | TIME |                                               |                                                  |                                                         |                                                   |                                                      |                                           |                                           |                                                          |                                         |
| FEB.<br>27... | 1700 | --                                            | 8.0                                              | 1.2                                                     | 6.8                                               | .20                                                  | --                                        | --                                        | .48                                                      | .68                                     |
| MAR.<br>26... | 0930 | --                                            | --                                               | --                                                      | --                                                | --                                                   | --                                        | --                                        | --                                                       | --                                      |
| MAY<br>06...  | 1530 | --                                            | --                                               | --                                                      | --                                                | --                                                   | --                                        | --                                        | --                                                       | --                                      |
| SEP.<br>25... | 1000 | 53                                            | --                                               | --                                                      | --                                                | .57                                                  | .12                                       | .47                                       | .59                                                      | 1.2                                     |

|               |     | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH   | TEMPER-<br>ATURE<br>(DEG C) | TUR-<br>BID-<br>ITY<br>(JTU) |
|---------------|-----|-------------------------------------------|-------------------------------------------|------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|------------------------------------|------------------------------------------------------------|------|-----------------------------|------------------------------|
| DATE          |     |                                           |                                           |                                                                  |                                                    |                                                  |                                    |                                                            |      |                             |                              |
| FEB.<br>27... | 3.0 | .13                                       | 60                                        | .08                                                              | --                                                 | 25                                               | 89                                 | 7.2                                                        | 6.5  | --                          |                              |
| MAR.<br>26... | --  | --                                        | --                                        | --                                                               | --                                                 | --                                               | 105                                | 5.6                                                        | 10.0 | --                          |                              |
| MAY<br>06...  | --  | --                                        | --                                        | --                                                               | --                                                 | --                                               | 125                                | 6.3                                                        | 16.5 | --                          |                              |
| SEP.<br>25... | 5.1 | .34                                       | 93                                        | .13                                                              | 13.3                                               | --                                               | 120                                | 6.6                                                        | 15.0 | 60                          |                              |

|               |      | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(HIGH<br>LEVEL)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | PHENOLS<br>(UG/L) | SUS-<br>PENDEO<br>SEDI-<br>MENT<br>(MG/L) | SUS-<br>PENDEO<br>SEDI-<br>MENT<br>(T/DAY) |
|---------------|------|------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|---------------------------------------------|-------------------|-------------------------------------------|--------------------------------------------|
| DATE          |      |                                    |                                                                |                                                     |                                                   |                                                       |                                             |                   |                                           |                                            |
| FEB.<br>27... | 11.9 | --                                 |                                                                | 1.7                                                 | --                                                | --                                                    | 2.9                                         | 0                 | --                                        | --                                         |
| MAR.<br>26... | 10.1 | --                                 | --                                                             | --                                                  | --                                                | --                                                    | --                                          | --                | --                                        | --                                         |
| MAY<br>06...  | 7.7  | --                                 | --                                                             | .5                                                  | --                                                | --                                                    | --                                          | --                | --                                        | --                                         |
| SEP.<br>25... | 8.6  | 20                                 | --                                                             | 600                                                 | 1050                                              | 10                                                    | --                                          | --                | 80                                        | 11                                         |

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

## WOLF RIVER BASIN

07030360 - WOLF RIVER NEAR BRODY, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE          | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.<br>26... | 0830 | 32                                                         | 6.1           | 15.0                        | 5.2                                |

07030370 - WOLF R. AT SPRINGHILL, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE          | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.<br>26... | 0910 | 33                                                         | 6.3           | 15.0                        | 8.8                                |

07030390 - GRAYS CREEK NEAR MICHIGAN CITY, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE          | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | DIS-<br>SOLVED<br>SILICA<br>(SI02)<br>(MG/L) | DIS-<br>SOLVED<br>IRON<br>(FE)<br>(UG/L) | DIS-<br>SOLVED<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | BICAR-<br>BONATE<br>(HC03)<br>(MG/L) |
|---------------|------|-----------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------------|--------------------------------------------------|---------------------------------------------------------|--------------------------------------------|--------------------------------------------------------|--------------------------------------|
| OCT.<br>26... | 1215 | 14                                            | 13                                           | 0                                        | 0                                                  | 1.8                                              | .9                                                      | 1.9                                        | 1.0                                                    | 13                                   |

| DATE          | CAR-<br>BONATE<br>(C03)<br>(MG/L) | ALKA-<br>LINITY<br>AS<br>CAC03<br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(S04)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>FLUO-<br>RIDE<br>(F)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHO.<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHO<br>PHOS-<br>PHATE<br>(P04)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(SUM OF<br>CONSTITUENTS)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) |
|---------------|-----------------------------------|------------------------------------------|----------------------------------------------|---------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------|
| OCT.<br>26... | 0                                 | 11                                       | .8                                           | 1.6                                               | .3                                               | .43                                                           | .00                                                          | .00                                                          | 30                                                             | .04                                                |

| DATE          | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | CARBON<br>DIOXIDE<br>(C02)<br>(MG/L) |
|---------------|--------------------------------------------------|------------------------------------|---------------------------------------------------|-------------------|-----------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|--------------------------------------|
| OCT.<br>26... | 1.21                                             | 8                                  | 0                                                 | 30                | .3                                      | 30                                                         | 6.3           | 17.0                        | 9.6                                | 10                                   |



## YAZOO RIVER BASIN

07266000 - CANE CREEK NEAR NEW ALBANY, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE          | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS)    | DIS-<br>SOLVED<br>SILICA<br>(SiO2)<br>(MG/L) | DIS-<br>SOLVED<br>IRON<br>(FE)<br>(UG/L)          | DIS-<br>SOLVED<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L)       | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L)                   | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L)        | BICAR-<br>BONATE<br>(HCO3)<br>(MG/L)                                |                                                    |
|---------------|------|--------------------------------------------------|----------------------------------------------|---------------------------------------------------|----------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------|
| NOV.<br>30... | 1330 | 60                                               | 7.2                                          | 70                                                | 0                                                  | 14                                               | 1.8                                                           | 1.7                                                          | 2.5                                                           | 44                                                                  |                                                    |
| DATE          |      | CAD-<br>BONATE<br>(CO3)<br>(MG/L)                | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L)     | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L)      | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L)  | DIS-<br>SOLVED<br>FLUO-<br>RIDE<br>(F)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHO-<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHO-<br>PHOS-<br>PHATE<br>(PO4)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(SUM OF<br>CONSTI-<br>TUENTS)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) |
| NOV.<br>30... | 0    | 36                                               | 5.2                                          | 3.5                                               | .0                                                 | .08                                              | .01                                                           | .03                                                          | 58                                                            | .08                                                                 |                                                    |
| DATE          |      | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L)           | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L) | PERCENT<br>SODIUM                                  | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS)    | PH                                                           | TEMPER-<br>ATURE<br>(DEG C)                                   | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L)                                  | CARBON<br>DIOXIDE<br>(CO2)<br>(MG/L)               |
| NOV.<br>30... | 9.40 | 42                                               | 6                                            | 8                                                 | .1                                                 | 110                                              | 7.0                                                           | 17.0                                                         | 11.7                                                          | 7.0                                                                 |                                                    |

07269000 - NORTH TIPPAN CREEK NEAR RIPLEY, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

|               |      | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS)    | DIS-<br>SOLVED<br>SILICA<br>(SIO2)<br>(MG/L) | DIS-<br>SOLVED<br>IRON<br>(FE)<br>(UG/L)          | DIS-<br>SOLVED<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L)       | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L)                   | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L)        | BICAR-<br>BONATE<br>(HCO3)<br>(MG/L)                                |                                                    |
|---------------|------|--------------------------------------------------|----------------------------------------------|---------------------------------------------------|----------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------|
| DATE          | TIME |                                                  |                                              |                                                   |                                                    |                                                  |                                                               |                                                              |                                                               |                                                                     |                                                    |
| OCT.<br>30... | 1440 | 2.1                                              | 13                                           | 180                                               | 0                                                  | 4.3                                              | 2.4                                                           | 2.4                                                          | 1.6                                                           | 17                                                                  |                                                    |
|               |      | CAR-<br>BONATE<br>(CO3)<br>(MG/L)                | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L)     | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L)      | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L)  | DIS-<br>SOLVED<br>FLUO-<br>RIDE<br>(F)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHO-<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHO-<br>PHOS-<br>PHATE<br>(PO4)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(SUM OF<br>CONSTI-<br>TUENTS)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) |
| DATE          |      |                                                  |                                              |                                                   |                                                    |                                                  |                                                               |                                                              |                                                               |                                                                     |                                                    |
| OCT.<br>30... | 0    | 14                                               | 7.7                                          | 3.0                                               | .4                                                 | .02                                              | .01                                                           | .03                                                          | 43                                                            | .06                                                                 |                                                    |
|               |      | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L)           | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L) | PERCENT<br>SODIUM                                  | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS)    | PH                                                           | TEMPER-<br>ATURE<br>(DEG C)                                   | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L)                                  | CARBON<br>DIOXIDE<br>(CO2)<br>(MG/L)               |
| DATE          |      |                                                  |                                              |                                                   |                                                    |                                                  |                                                               |                                                              |                                                               |                                                                     |                                                    |
| OCT.<br>30... | .25  | 21                                               | 7                                            | 19                                                | .2                                                 | 56                                               | 7.1                                                           | 14.5                                                         | 11.2                                                          | 2.2                                                                 |                                                    |

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

## 07269450 - CHEWALLA CREEK NEAR HOLLY SPRINGS, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE          | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.<br>25... | 1200 | 28                                                         | 6.1           | 28.0                        | 9.5                                |

## 07270500 - HAGLEY CREEK NEAR ABBEVILLE, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE          | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | DIS-<br>SOLVED<br>SILICA<br>(SiO2)<br>(MG/L) | DIS-<br>SOLVED<br>IRON<br>(FE)<br>(UG/L) | DIS-<br>SOLVED<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | BICAR-<br>BONATE<br>(HCO3)<br>(MG/L) |
|---------------|------|-----------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------------|--------------------------------------------------|---------------------------------------------------------|--------------------------------------------|--------------------------------------------------------|--------------------------------------|
| OCT.<br>24... | 1450 | 1.8                                           | 11                                           | 70                                       | 0                                                  | 2.2                                              | 1.6                                                     | 2.7                                        | 1.6                                                    | 14                                   |

| DATE          | TIME | CAR-<br>BONATE<br>(CO3)<br>(MG/L) | ALKA-<br>LINITAS<br>AS<br>CACO3<br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>FLUO-<br>RIDE<br>(F)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHO-<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHO-<br>PHOS-<br>PHATE<br>(PO4)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(SUM OF<br>CONSTI-<br>TUENTS)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) |
|---------------|------|-----------------------------------|-------------------------------------------|----------------------------------------------|---------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------|
| OCT.<br>24... | 0    | 11                                | 2.4                                       | 2.4                                          | .3                                                | .16                                              | .01                                                           | .03                                                          | .32                                                           | .04                                                                 |                                                    |

| DATE          | TIME | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | CARBON<br>DIOXIDE<br>(CO2)<br>(MG/L) |
|---------------|------|--------------------------------------------------|-------------------------------------|---------------------------------------------------|-------------------|-----------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|--------------------------------------|
| OCT.<br>24... | .16  | 12                                               | 1                                   | 29                                                | .3                | 34                                      | 6.6                                                        | 25.5          | 8.3                         | 5.6                                |                                      |

## 07270520 - BIG SPRING CREEK NEAR HOLLY SPRINGS, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE          | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | DIS-<br>SOLVED<br>SILICA<br>(SiO2)<br>(MG/L) | DIS-<br>SOLVED<br>IRON<br>(FE)<br>(UG/L) | DIS-<br>SOLVED<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | BICAR-<br>BONATE<br>(HCO3)<br>(MG/L) | CAR-<br>BONATE<br>(CO3)<br>(MG/L) |
|---------------|------|-----------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------------|--------------------------------------------------|---------------------------------------------------------|--------------------------------------------|--------------------------------------------------------|--------------------------------------|-----------------------------------|
| OCT.<br>25... | 0900 | 5.9                                           | 13                                           | 0                                        | 0                                                  | 2.6                                              | 1.3                                                     | 2.3                                        | 1.1                                                    | 17                                   | 0                                 |

| DATE          | TIME | ALKA-<br>LINITAS<br>AS<br>CACO3<br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>FLUO-<br>RIDE<br>(F)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHO-<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHO-<br>PHOS-<br>PHATE<br>(PO4)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(SUM OF<br>CONSTI-<br>TUENTS)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) |
|---------------|------|-------------------------------------------|----------------------------------------------|---------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------|
| OCT.<br>25... | 14   | .7                                        | 1.5                                          | .4                                                | .28                                              | .00                                                           | .00                                                          | .32                                                           | .04                                                                 | .51                                              |

| DATE          | TIME | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L) | PERCENT<br>SODIUM | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | CARBON<br>DIOXIDE<br>(CO2)<br>(MG/L) |
|---------------|------|-------------------------------------|---------------------------------------------------|-------------------|-----------------------------------------|------------------------------------------------------------|---------------|-----------------------------|----------------------------------------------|------------------------------------|--------------------------------------|
| OCT.<br>25... | 12   | 0                                   | 27                                                | .3                | 38                                      | 6.1                                                        | 12.5          | 5                           | 8.5                                          | 22                                 |                                      |

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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0727000 - HURRICANE CREEK NEAR OXFORD, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE          | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS)    | DIS-<br>SOLVED<br>SILICA<br>( $\text{SiO}_2$ )<br>(MG/L) | DIS-<br>SOLVED<br>IRON<br>(FE)<br>(UG/L)                 | DIS-<br>SOLVED<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L)       | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L)                   | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L)                    | BICAR-<br>BONATE<br>( $\text{HCO}_3$ )<br>(MG/L)                    |                                                    |
|---------------|------|--------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------|
| NOV.<br>30... | 0850 | 18                                               | 11                                                       | 90                                                       | 0                                                  | 2.4                                              | 1.2                                                           | 2.3                                                          | 1.8                                                                       | 15                                                                  |                                                    |
| DATE          |      | CAR-<br>BONATE<br>( $\text{CO}_3$ )<br>(MG/L)    | ALKA-<br>LINIT<br>AS<br>CACO3<br>(MG/L)                  | DIS-<br>SOLVED<br>SULFATE<br>( $\text{SO}_4$ )<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L)  | DIS-<br>SOLVED<br>FLUO-<br>RIDE<br>(F)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHO-<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHO-<br>PHOS-<br>PHATE<br>( $\text{PO}_4$ )<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(SUM OF<br>CONSTI-<br>TUENTS)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) |
| NOV.<br>30... | 0    |                                                  | 12                                                       | 1.3                                                      | 2.8                                                | .0                                               | .19                                                           | .03                                                          | .09                                                                       | 31                                                                  | .04                                                |
| DATE          |      | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L)                       | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L)        | PERCENT<br>SODIUM                                  | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS)    | PH<br>(UNITS)                                                | TEMPER-<br>ATURE<br>(DEG C)                                               | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L)                                  | CARBON<br>DIOXIDE<br>( $\text{CO}_2$ )<br>(MG/L)   |
| NOV.<br>30... | 1.51 |                                                  | 11                                                       | 0                                                        | 27                                                 | .3                                               | 30                                                            | 6.9                                                          | 8.0                                                                       | 11.7                                                                | 3.0                                                |

07271000 - CLEAR CREEK NEAR OXFORD, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE          | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS)    | DIS-<br>SOLVED<br>SILICA<br>( $\text{SiO}_2$ )<br>(MG/L) | DIS-<br>SOLVED<br>IRON<br>(FE)<br>(UG/L)                 | DIS-<br>SOLVED<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L)       | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L)                   | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L)                    | BICAR-<br>BONATE<br>( $\text{HCO}_3$ )<br>(MG/L)                    |                                                    |
|---------------|------|--------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------|
| NOV.<br>30... | 0950 | 20                                               | 12                                                       | 10                                                       | 0                                                  | 2.0                                              | .9                                                            | 3.2                                                          | 2.6                                                                       | 12                                                                  |                                                    |
| DATE          |      | CAR-<br>BONATE<br>( $\text{CO}_3$ )<br>(MG/L)    | ALKA-<br>LINIT<br>AS<br>CACO3<br>(MG/L)                  | DIS-<br>SOLVED<br>SULFATE<br>( $\text{SO}_4$ )<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L)  | DIS-<br>SOLVED<br>FLUO-<br>RIDE<br>(F)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHO-<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHO-<br>PHOS-<br>PHATE<br>( $\text{PO}_4$ )<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(SUM OF<br>CONSTI-<br>TUENTS)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) |
| NOV.<br>30... | 0    |                                                  | 10                                                       | 2.4                                                      | 2.8                                                | .0                                               | .28                                                           | .03                                                          | .09                                                                       | 33                                                                  | .04                                                |
| DATE          |      | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L)                       | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L)        | PERCENT<br>SODIUM                                  | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS)    | PH<br>(UNITS)                                                | TEMPER-<br>ATURE<br>(DEG C)                                               | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L)                                  | CARBON<br>DIOXIDE<br>( $\text{CO}_2$ )<br>(MG/L)   |
| NOV.<br>30... | 1.78 |                                                  | 9                                                        | 0                                                        | 37                                                 | .5                                               | 41                                                            | 6.4                                                          | 13.0                                                                      | 11.8                                                                | 7.6                                                |

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

07274000 - YOCONA RIVER NEAR OXFORD, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE       | TIME | INSTANTANEOUS DISCHARGE (CFS) | DIS-SOLVED CALCIUM (CA) (MG/L) | DIS-SOLVED MAGNESIUM (MG/L) | DIS-SOLVED CHLORIDE (CL) (MG/L) | TOTAL NITRITE PLUS NITRATE (N) (MG/L) | AMMONIA NITROGEN (N) (MG/L) | ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL NITROGEN (N) (MG/L) | TOTAL NITROGEN (N) (MG/L) |
|------------|------|-------------------------------|--------------------------------|-----------------------------|---------------------------------|---------------------------------------|-----------------------------|-----------------------------|------------------------------------|---------------------------|
| FEB. 28... | 0800 | 274                           | 2.5                            | 1.5                         | 4.2                             | .17                                   | --                          | --                          | .29                                | .46                       |
| MAR. 26... | 1230 | 309                           | --                             | --                          | --                              | --                                    | --                          | --                          | --                                 | --                        |
| MAY 07...  | 0915 | 546                           | 1.7                            | 1.6                         | --                              | --                                    | --                          | --                          | --                                 | --                        |
| SEP. 24... | 1630 | 100                           | --                             | --                          | --                              | .30                                   | .01                         | .72                         | .73                                | 1.0                       |

| DATE       | TOTAL NITROGEN (NO3) (MG/L) | TOTAL PHOSPHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) | DIS-SOLVED SOLIDS (TONS PER AC-FT) | DIS-SOLVED SOLIDS (TONS PER DAY) | HARDNESS (CA+MG) (MG/L) | SPECIFIC CONDUCTANCE (MICRO-MHOS) | PH (UNITS) | TEMPERATURE (DEG C) | TURBIDITY (JTU) |
|------------|-----------------------------|-----------------------------|---------------------------------------------|------------------------------------|----------------------------------|-------------------------|-----------------------------------|------------|---------------------|-----------------|
| FEB. 28... | 2.0                         | .11                         | 44                                          | .06                                | 32.6                             | 12                      | 56                                | 6.9        | 7.1                 | --              |
| MAR. 26... | --                          | --                          | --                                          | --                                 | --                               | --                      | 70                                | 5.9        | 11.0                | --              |
| MAY 07...  | --                          | --                          | 36                                          | .05                                | 53.1                             | 11                      | 60                                | 6.0        | 16.5                | --              |
| SEP. 24... | 4.6                         | .31                         | 53                                          | .07                                | 14.3                             | --                      | 65                                | 6.4        | 17.0                | 70              |

| DATE       | DIS-SOLVED OXYGEN (MG/L) | CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L) | BIO-CHEMICAL OXYGEN DEMAND (MG/L) | FECAL COLIFORM (COL. PER 100 ML) | STREPTOCOCCI (COLONIES PER 100 ML) | TOTAL ORGANIC CARBON (C) (MG/L) | PHENOLS (UG/L) | SUSPENDED SEDIMENT (MG/L) | SUSPENDED SEDIMENT DISCHARGE (T/DAY) |
|------------|--------------------------|--------------------------------------------|-----------------------------------|----------------------------------|------------------------------------|---------------------------------|----------------|---------------------------|--------------------------------------|
| FEB. 28... | 11.8                     | --                                         | 1.3                               | --                               | --                                 | 3.5                             | 1              | --                        | --                                   |
| MAR. 26... | 9.8                      | --                                         | --                                | --                               | --                                 | --                              | --             | --                        | --                                   |
| MAY 07...  | 9.6                      | --                                         | .1                                | --                               | --                                 | --                              | --             | --                        | --                                   |
| SEP. 24... | 9.4                      | 12                                         | --                                | 7100                             | 500                                | 9.8                             | --             | 41                        | 11                                   |

07275700 - COLDWATER RIVER NEAR RED BANKS, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE       | TIME | SPECIFIC CONDUCTANCE (MICRO-MHOS) | PH (UNITS) | TEMPERATURE (DEG C) | DIS-SOLVED OXYGEN (MG/L) |
|------------|------|-----------------------------------|------------|---------------------|--------------------------|
| OCT. 25... | 1800 | 38                                | 6.5        | 15.0                | 9.2                      |

## 07285000 - YALOBUSHA RIVER AT GRENADA, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE          | TIME | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL-<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) |
|---------------|------|--------------------------------------------------|---------------------------------------------------------|---------------------------------------------------|------------------------------------------------------|-------------------------------------------|-------------------------------------------|-----------------------------------------------------------|-----------------------------------------|
| FEB.<br>28... | 1400 | 3.0                                              | 1.2                                                     | 2.9                                               | .16                                                  | --                                        | --                                        | .52                                                       | .68                                     |
| MAR.<br>26... | 1610 | --                                               | --                                                      | --                                                | --                                                   | --                                        | --                                        | --                                                        | --                                      |
| MAY<br>07...  | 1400 | 2.4                                              | 1.9                                                     | --                                                | --                                                   | --                                        | --                                        | --                                                        | --                                      |
| SEP.<br>24... | 1500 | --                                               | --                                                      | --                                                | .03                                                  | .13                                       | .39                                       | .52                                                       | .55                                     |

| DATE          | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(IONS<br>PER<br>AC-FT) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | TUR-<br>BID-<br>ITY<br>(JTU) |
|---------------|-------------------------------------------|-------------------------------------------|------------------------------------------------------------------|----------------------------------------------------|------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------|
| FEB.<br>28... | 3.0                                       | .17                                       | 47                                                               | .06                                                | 12                                 | 49                                                         | 7.1           | 9.0                         | --                           |
| MAR.<br>26... | --                                        | --                                        | --                                                               | --                                                 | --                                 | 57                                                         | 6.2           | 14.0                        | --                           |
| MAY<br>07...  | --                                        | --                                        | 32                                                               | .04                                                | 14                                 | 65                                                         | 6.6           | 22.0                        | --                           |
| SEP.<br>24... | 2.4                                       | .10                                       | 51                                                               | .07                                                | --                                 | 65                                                         | 6.6           | 22.0                        | 10                           |

| DATE          | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(HIGH<br>LEVEL)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(COL.<br>ONIES<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | PHENOLS<br>(UG/L) | SUS-<br>PENDED<br>SOLI-<br>MENT<br>(MG/L) |
|---------------|------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------|---------------------------------------------|-------------------|-------------------------------------------|
| FEB.<br>28... | 11.4                               | --                                                             | 1.7                                                 | --                                                         | --                                                    | 5.2                                         | 0                 | --                                        |
| MAR.<br>26... | 10.5                               | --                                                             | --                                                  | --                                                         | --                                                    | --                                          | --                | --                                        |
| MAY<br>07...  | 9.3                                | --                                                             | .0                                                  | --                                                         | --                                                    | --                                          | --                | --                                        |
| SEP.<br>24... | 9.3                                | 20                                                             | --                                                  | 825600                                                     | 2500                                                  | 11                                          | --                | 34                                        |

## 07287000 - YALOO RIVER AT GREENWOOD, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE          | TIME | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL-<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) |
|---------------|------|--------------------------------------------------|---------------------------------------------------------|---------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------|-----------------------------------------|-------------------------------------------|------------------------------------------------------------------|
| FEB.<br>28... | 1700 | 3.0                                              | 1.4                                                     | 3.2                                               | .17                                                  | .52                                                       | .59                                     | 3.1                                     | .27                                       | 52                                                               |
| MAR.<br>26... | 1715 | --                                               | --                                                      | --                                                | --                                                   | --                                                        | --                                      | --                                      | --                                        | --                                                               |
| MAY<br>07...  | 1500 | 3.9                                              | 2.8                                                     | --                                                | --                                                   | --                                                        | --                                      | --                                      | --                                        | 44                                                               |

| DATE          | DIS-<br>SOLVED<br>SOLIDS<br>(IONS<br>PER<br>AC-FT) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | PHENOLS<br>(UG/L) |
|---------------|----------------------------------------------------|------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|-----------------------------------------------------|---------------------------------------------|-------------------|
| FEB.<br>28... | .07                                                | 13                                 | 61                                                         | 7.2           | 11.0                        | 10.2                               | 2.5                                                 | 7.8                                         | 6                 |
| MAR.<br>26... | --                                                 | --                                 | 58                                                         | 6.0           | 13.0                        | 10.0                               | --                                                  | --                                          | --                |
| MAY<br>07...  | .06                                                | 21                                 | 95                                                         | 6.7           | 22.0                        | 7.2                                | .2                                                  | --                                          | --                |

## 07288000 - BIG SUNFLOWER RIVER AT CLARKSDALE, MISS.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE  | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJFL-<br>DAHL-<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) |
|-------|------|------------------------------------------|--------------------------------------------------|-------------------------------------------------|------------------------------------------------------|-------------------------------------------|-------------------------------------------|-----------------------------------------------------------|-----------------------------------------|
| DEC.  |      |                                          |                                                  |                                                 |                                                      |                                           |                                           |                                                           |                                         |
| 05... | 1200 | --                                       | --                                               | --                                              | --                                                   | --                                        | --                                        | --                                                        | --                                      |
| FEB.  |      |                                          |                                                  |                                                 |                                                      |                                           |                                           |                                                           |                                         |
| 28... | 1100 | --                                       | 15                                               | 4.4                                             | --                                                   | --                                        | --                                        | --                                                        | --                                      |
| MAR.  |      |                                          |                                                  |                                                 |                                                      |                                           |                                           |                                                           |                                         |
| 26... | 1425 | --                                       | --                                               | --                                              | --                                                   | --                                        | --                                        | --                                                        | --                                      |
| MAY   |      |                                          |                                                  |                                                 |                                                      |                                           |                                           |                                                           |                                         |
| 07... | 1200 | --                                       | 17                                               | 11                                              | --                                                   | --                                        | --                                        | --                                                        | --                                      |
| JULY  |      |                                          |                                                  |                                                 |                                                      |                                           |                                           |                                                           |                                         |
| 31... | 0620 | 45                                       | --                                               | --                                              | --                                                   | --                                        | --                                        | --                                                        | --                                      |
| 31... | 0915 | 45                                       | --                                               | --                                              | --                                                   | --                                        | --                                        | --                                                        | --                                      |
| 31... | 1215 | 45                                       | --                                               | --                                              | --                                                   | --                                        | --                                        | --                                                        | --                                      |
| 31... | 1515 | 42                                       | --                                               | --                                              | --                                                   | --                                        | --                                        | --                                                        | --                                      |
| 31... | 1830 | 42                                       | --                                               | --                                              | --                                                   | --                                        | --                                        | --                                                        | --                                      |
| 31... | 2115 | 41                                       | --                                               | --                                              | --                                                   | --                                        | --                                        | --                                                        | --                                      |
| 31-31 | --   | --                                       | --                                               | --                                              | .35                                                  | .40                                       | .60                                       | 1.0                                                       | 1.4                                     |
| AUG.  |      |                                          |                                                  |                                                 |                                                      |                                           |                                           |                                                           |                                         |
| 01-01 | --   | --                                       | --                                               | --                                              | .35                                                  | .40                                       | .60                                       | 1.0                                                       | 1.4                                     |
| 01... | 0020 | 40                                       | --                                               | --                                              | --                                                   | --                                        | --                                        | --                                                        | --                                      |
| 01... | 0320 | 34                                       | --                                               | --                                              | --                                                   | --                                        | --                                        | --                                                        | --                                      |
| SEP.  |      |                                          |                                                  |                                                 |                                                      |                                           |                                           |                                                           |                                         |
| 24... | 1200 | --                                       | --                                               | --                                              | .17                                                  | .14                                       | .66                                       | .80                                                       | .97                                     |

| DATE  | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>ORTHOC<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) |
|-------|-------------------------------------------|-------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------|------------------------------------|------------------------------------------------------------|---------------|-----------------------------|
| DEC.  |                                           |                                           |                                                     |                                                                  |                                                    |                                    |                                                            |               |                             |
| 05... | --                                        | --                                        | --                                                  | --                                                               | --                                                 | --                                 | 95                                                         | 7.1           | 13.0                        |
| FEB.  |                                           |                                           |                                                     |                                                                  |                                                    |                                    |                                                            |               |                             |
| 28... | --                                        | --                                        | --                                                  | 47                                                               | .13                                                | 56                                 | 140                                                        | 7.4           | 9.8                         |
| MAR.  |                                           |                                           |                                                     |                                                                  |                                                    |                                    |                                                            |               |                             |
| 26... | --                                        | --                                        | --                                                  | --                                                               | --                                                 | --                                 | 570                                                        | 6.5           | 17.0                        |
| MAY   |                                           |                                           |                                                     |                                                                  |                                                    |                                    |                                                            |               |                             |
| 07... | --                                        | --                                        | --                                                  | 142                                                              | .26                                                | 88                                 | 425                                                        | 6.9           | 22.0                        |
| JULY  |                                           |                                           |                                                     |                                                                  |                                                    |                                    |                                                            |               |                             |
| 31... | --                                        | --                                        | --                                                  | --                                                               | --                                                 | --                                 | 360                                                        | 7.3           | 26.6                        |
| 31... | --                                        | --                                        | --                                                  | --                                                               | --                                                 | --                                 | 400                                                        | 7.4           | 25.8                        |
| 31... | --                                        | --                                        | --                                                  | --                                                               | --                                                 | --                                 | 350                                                        | 7.3           | 26.4                        |
| 31... | --                                        | --                                        | --                                                  | --                                                               | --                                                 | --                                 | 370                                                        | 7.3           | 27.0                        |
| 31... | --                                        | --                                        | --                                                  | --                                                               | --                                                 | --                                 | 400                                                        | 7.3           | 27.2                        |
| 31... | --                                        | --                                        | --                                                  | --                                                               | --                                                 | --                                 | 400                                                        | 7.4           | 27.0                        |
| 31-31 | 6.0                                       | .33                                       | .17                                                 | --                                                               | --                                                 | --                                 | --                                                         | --            | --                          |
| AUG.  |                                           |                                           |                                                     |                                                                  |                                                    |                                    |                                                            |               |                             |
| 01-01 | 6.0                                       | .33                                       | .17                                                 | --                                                               | --                                                 | --                                 | --                                                         | --            | --                          |
| 01... | --                                        | --                                        | --                                                  | --                                                               | --                                                 | --                                 | 400                                                        | 7.4           | 26.0                        |
| 01... | --                                        | --                                        | --                                                  | --                                                               | --                                                 | --                                 | 370                                                        | 7.3           | 26.0                        |
| SEP.  |                                           |                                           |                                                     |                                                                  |                                                    |                                    |                                                            |               |                             |
| 24... | 4.3                                       | .29                                       | --                                                  | 133                                                              | .18                                                | --                                 | 190                                                        | 6.6           | 17.0                        |

| DATE  | TUR-<br>BID-<br>ITY<br>(JTU) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(HIGH<br>LEVEL)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | SUS-<br>PENDED<br>SEDIM-<br>ENT<br>(MG/L) |
|-------|------------------------------|------------------------------------|----------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|---------------------------------------------|-------------------------------------------|
| DEC.  |                              |                                    |                                                                |                                                     |                                                   |                                                       |                                             |                                           |
| 05... | --                           | 6.3                                | --                                                             | 2.4                                                 | --                                                | --                                                    | --                                          | --                                        |
| FEB.  |                              |                                    |                                                                |                                                     |                                                   |                                                       |                                             |                                           |
| 28... | --                           | 9.4                                | --                                                             | 2.2                                                 | --                                                | --                                                    | --                                          | --                                        |
| MAR.  |                              |                                    |                                                                |                                                     |                                                   |                                                       |                                             |                                           |
| 26... | --                           | 7.4                                | --                                                             | --                                                  | --                                                | --                                                    | --                                          | --                                        |
| MAY   |                              |                                    |                                                                |                                                     |                                                   |                                                       |                                             |                                           |
| 07... | --                           | 6.0                                | --                                                             | 3.6                                                 | --                                                | --                                                    | --                                          | 70                                        |
| JULY  |                              |                                    |                                                                |                                                     |                                                   |                                                       |                                             |                                           |
| 31... | --                           | 4.4                                | --                                                             | --                                                  | --                                                | --                                                    | --                                          | --                                        |
| 31... | --                           | 3.7                                | --                                                             | --                                                  | --                                                | --                                                    | --                                          | --                                        |
| 31... | --                           | 4.0                                | --                                                             | --                                                  | --                                                | --                                                    | --                                          | --                                        |
| 31... | --                           | 3.4                                | --                                                             | --                                                  | --                                                | --                                                    | --                                          | --                                        |
| 31... | --                           | 3.1                                | --                                                             | --                                                  | --                                                | --                                                    | --                                          | --                                        |
| 31... | --                           | 3.3                                | --                                                             | --                                                  | --                                                | --                                                    | --                                          | --                                        |
| 31-31 | --                           | --                                 | --                                                             | 3.5                                                 | --                                                | --                                                    | --                                          | --                                        |
| AUG.  |                              |                                    |                                                                |                                                     |                                                   |                                                       |                                             |                                           |
| 01-01 | --                           | --                                 | --                                                             | 3.5                                                 | --                                                | --                                                    | --                                          | --                                        |
| 01... | --                           | 3.4                                | --                                                             | --                                                  | --                                                | --                                                    | --                                          | --                                        |
| 01... | --                           | 3.1                                | --                                                             | --                                                  | --                                                | --                                                    | --                                          | --                                        |
| SEP.  |                              |                                    |                                                                |                                                     |                                                   |                                                       |                                             |                                           |
| 24... | 40                           | 6.4                                | 20                                                             | --                                                  | 2420                                              | 933                                                   | 7.7                                         | --                                        |



## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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## BIG BLACK RIVER BASIN

07290210 - BIG BLACK RIVER NEAR PORT GIBSON, MISS.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

| DATE          | TIME | DIS-SOLVED<br>CAL-CIUM<br>(CA)<br>(MG/L) | DIS-SOLVED<br>MAG-NE-SIUM<br>(MG) | DIS-SOLVED<br>CHLO-RIDE<br>(CL)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>KJEL-DAHL<br>NITRO-GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-GEN<br>(NO3)<br>(MG/L) | TOTAL<br>PHOS-PHORUS<br>(P)<br>(MG/L) | DIS-SOLVED<br>SOLIDS<br>(RESI-DUE AT<br>180 C)<br>(MG/L) |
|---------------|------|------------------------------------------|-----------------------------------|-------------------------------------------|------------------------------------------------------|--------------------------------------------------|-------------------------------------|---------------------------------------|---------------------------------------|----------------------------------------------------------|
| DEC.<br>07... | 1030 | --                                       | --                                | --                                        | --                                                   | --                                               | --                                  | --                                    | --                                    | --                                                       |
| JAN.<br>30... | 1200 | 4.4                                      | 1.9                               | 5.3                                       | .10                                                  | .26                                              | .36                                 | 1.6                                   | .26                                   | 49                                                       |

| DATE          | DIS-SOLVED<br>SOLIDS<br>(TONS<br>PER<br>AC-FT) | HARD-NESS<br>(CA, MG)<br>(MG/L) | SPE-CIFIC<br>CON-DUCT-ANCE<br>(MICRO-MHOS) | PH<br>(UNITS) | TEMPER-ATURE<br>(DEG C) | DIS-SOLVED<br>OXYGEN<br>(MG/L) | BIO-CHEM-ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | PHENOLS<br>(UG/L) |
|---------------|------------------------------------------------|---------------------------------|--------------------------------------------|---------------|-------------------------|--------------------------------|---------------------------------------------|---------------------------------------------|-------------------|
| DEC.<br>07... | --                                             | --                              | 70                                         | 5.7           | 11.0                    | 8.5                            | 1.6                                         | --                                          | --                |
| JAN.<br>30... | .07                                            | 19                              | 67                                         | 6.7           | 13.8                    | 8.6                            | --                                          | 8.5                                         | 3                 |

## ANALYSES OF SAMPLES COLLECTED DURING SHORT-TERM INTENSIVE STUDIES

## TUPELO AREA

An intensive study of the quality of surface waters in the Tupelo area was conducted June 24-28, 1974. Samples were obtained at 20 sites on Town Creek and its tributaries. Listed below are site locations and results of laboratory analyses and of field determinations of water quality during the study.

| DATE | TIME | INSTANTANEOUS DISCHARGE (CFS) | SPE-CIFIC CONDUCTANCE (MICRO-MHUS) | PH (UNITS) | TEMPERATURE (DEG C) | DISSOLVED OXYGEN (MG/L) |
|------|------|-------------------------------|------------------------------------|------------|---------------------|-------------------------|
|------|------|-------------------------------|------------------------------------|------------|---------------------|-------------------------|

## 02434575 - MUD CREEK NEAR TUPELO, MISS. (LAT 34 18 56 LONG 088 41 42)

JUNE, 1974

|       |      |    |     |     |      |     |
|-------|------|----|-----|-----|------|-----|
| 26... | 0845 | 13 | 210 | 7.5 | 18.0 | 9.1 |
| 26... | 1055 | 13 | 210 | 7.6 | 19.5 | 8.5 |
| 26... | 1200 | 13 | 210 | 7.6 | 21.0 | 8.5 |
| 26... | 1530 | 13 | 210 | 7.7 | 22.0 | 7.4 |
| 26... | 1800 | 13 | 210 | 7.7 | 21.0 | 8.2 |
| 26... | 2115 | 13 | 180 | 7.6 | 20.0 | 7.8 |
| 27... | 0205 | 13 | 210 | 7.6 | 19.0 | 7.1 |
| 27... | 0450 | 13 | 220 | 7.5 | 18.5 | 6.9 |

## 02435000 - MUD CREEK AT TUPELO, MISS. (LAT 34 15 26 LONG 088 41 05)

JUNE, 1974

|       |      |    |     |     |      |     |
|-------|------|----|-----|-----|------|-----|
| 26... | 0800 | 16 | 210 | 7.6 | 18.0 | 9.1 |
| 26... | 1035 | 16 | 220 | 7.6 | 19.0 | 8.9 |
| 26... | 1235 | 15 | 220 | 7.7 | 21.0 | 8.6 |
| 26... | 1600 | 15 | 220 | 7.7 | 24.0 | 7.6 |
| 26... | 1830 | 14 | 220 | 7.7 | 23.0 | 8.4 |
| 26... | 2145 | 14 | 180 | 7.6 | 22.0 | 7.9 |
| 27... | 0150 | 13 | 220 | 7.6 | 20.0 | 6.3 |
| 27... | 0410 | 13 | 220 | 7.6 | 19.0 | 6.6 |

## 02435020 - TOWN CREEK AT EASON BOULEVARD AT TUPELO, MISS. (LAT 34 14 08 LONG 088 41 43)

JUNE, 1974

|       |      |    |     |     |      |     |
|-------|------|----|-----|-----|------|-----|
| 25... | 0730 | 50 | --  | --  | 18.0 | 6.5 |
| 25... | 0800 | 50 | --  | --  | 18.0 | 7.0 |
| 25... | 0900 | 50 | --  | --  | 18.0 | 8.5 |
| 25... | 1000 | 50 | --  | --  | 19.0 | 8.5 |
| 25... | 1500 | 50 | --  | --  | 24.0 | 8.7 |
| 26... | 0820 | 50 | 420 | 7.1 | 18.0 | 8.6 |
| 26... | 0955 | 48 | 350 | 7.5 | 20.0 | 8.5 |
| 26... | 1300 | 46 | 300 | 7.6 | 25.0 | 7.9 |
| 26... | 1615 | 44 | 300 | 7.7 | 26.5 | 7.1 |
| 26... | 1845 | 43 | 300 | 7.7 | 24.0 | 6.1 |
| 26... | 2200 | 44 | 300 | 7.6 | 22.0 | 7.2 |
| 27... | 0105 | 43 | 300 | 7.3 | 20.0 | 6.5 |
| 27... | 0320 | 43 | 280 | 7.4 | 20.0 | 6.1 |

## 02435028 - SEWAGE DISPOSAL DITCH NO. 1 AT TUPELO, MISS. (LAT 34 13 45 LONG 088 41 30)

JUNE, 1974

|       |      |     |     |      |      |      |
|-------|------|-----|-----|------|------|------|
| 26... | 0720 | .47 | 450 | 10.7 | 21.0 | 2.6  |
| 26... | 0945 | .47 | 425 | 7.4  | 22.5 | 4.7  |
| 26... | 1320 | .47 | 450 | 6.9  | 26.0 | 13.8 |
| 26... | 1630 | .47 | 450 | 6.9  | 27.0 | 15.0 |
| 26... | 1900 | .47 | 450 | 6.8  | 26.0 | 14.6 |
| 26... | 2220 | .47 | 400 | 9.7  | 25.0 | 9.8  |
| 27... | 0055 | .47 | 450 | 8.1  | 23.0 | 5.7  |
| 27... | 0310 | .47 | 390 | 10.2 | 22.0 | 3.9  |

## 02435246 - SEWAGE DISPOSAL DITCH NO. 2 AT TUPELO, MISS. (LAT 34 13 21 LONG 088 41 48)

JUNE, 1974

|       |      |     |     |      |      |      |
|-------|------|-----|-----|------|------|------|
| 26... | 0830 | 1.4 | 230 | 10.2 | 21.0 | 8.6  |
| 26... | 1100 | 1.4 | 150 | 9.9  | 22.5 | 13.8 |
| 26... | 1450 | 1.4 | 195 | 9.7  | 24.5 | 16.8 |
| 26... | 1725 | 1.4 | 200 | 9.5  | 25.0 | 15.6 |
| 26... | 2005 | 1.4 | 135 | 8.8  | 25.0 | 19.4 |
| 26... | 2345 | 1.4 | 280 | 7.9  | 24.0 | 14.4 |
| 27... | 0135 | 1.4 | 260 | 10.0 | 21.0 | 11.6 |
| 27... | 0345 | 1.4 | 500 | 10.2 | 22.0 | 15.1 |

## 02435254 - SEWAGE DISPOSAL DITCH NO. 3 AT TUPELO, MISS. (LAT 34 13 07 LONG 088 41 45)

JUNE, 1974

|       |      |     |     |      |      |      |
|-------|------|-----|-----|------|------|------|
| 26... | 0740 | 1.3 | 550 | 10.3 | 21.0 | 7.4  |
| 26... | 1015 | 1.3 | 500 | 9.2  | 22.0 | 9.2  |
| 26... | 1445 | 1.3 | 500 | 8.8  | 25.0 | 16.4 |
| 26... | 1620 | 1.3 | 600 | 7.4  | 25.0 | 16.4 |
| 26... | 1955 | 1.3 | 550 | 9.1  | 25.0 | 17.4 |
| 26... | 2335 | 1.3 | 500 | 10.6 | 24.0 | 16.6 |
| 27... | 0130 | 1.3 | 500 | 9.5  | 23.0 | 10.6 |
| 27... | 0335 | 1.3 | 450 | 10.2 | 22.0 | 16.0 |

## TUPELO AREA.--Continued

| DATE                                                                                    | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-----------------------------------------------------------------------------------------|------|-----------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|
| 02435257 - SEWAGE DISPOSAL DITCH NO. 4 AT TUPELO, MISS. (LAT 34 13 01 LONG 088 41 43)   |      |                                               |                                                            |               |                             |                                    |
| JUNE, 1974                                                                              |      |                                               |                                                            |               |                             |                                    |
| 26...                                                                                   | 0745 | .36                                           | 650                                                        | 9.0           | 20.5                        | 1.1                                |
| 26...                                                                                   | 1020 | .36                                           | 800                                                        | 6.8           | 23.0                        | .8                                 |
| 26...                                                                                   | 1415 | .36                                           | 800                                                        | 7.0           | 28.0                        | .3                                 |
| 26...                                                                                   | 1715 | .36                                           | 800                                                        | 7.3           | 27.0                        | .3                                 |
| 26...                                                                                   | 1950 | .36                                           | 800                                                        | 6.9           | 25.5                        | .6                                 |
| 26...                                                                                   | 2330 | .36                                           | 800                                                        | 7.0           | 24.0                        | .6                                 |
| 27...                                                                                   | 0125 | .36                                           | 800                                                        | 8.8           | 22.0                        | .8                                 |
| 27...                                                                                   | 0325 | .36                                           | 550                                                        | 10.5          | 21.5                        | 1.0                                |
| 02435500 - TOWN CREEK NEAR VERONA, MISS. (LAT 34 11 53 LONG 088 40 57)                  |      |                                               |                                                            |               |                             |                                    |
| JUNE, 1974                                                                              |      |                                               |                                                            |               |                             |                                    |
| 25...                                                                                   | 1100 | 57                                            | --                                                         | --            | 19.0                        | 8.5                                |
| 25...                                                                                   | 1230 | 57                                            | --                                                         | --            | 20.5                        | 8.6                                |
| 25...                                                                                   | 1300 | 57                                            | --                                                         | --            | 20.5                        | 8.6                                |
| 25...                                                                                   | 1400 | 57                                            | --                                                         | --            | 22.0                        | 8.4                                |
| 25...                                                                                   | 1600 | 57                                            | --                                                         | --            | 25.0                        | 9.0                                |
| 25...                                                                                   | 1700 | 55                                            | --                                                         | --            | 25.5                        | 9.2                                |
| 25...                                                                                   | 1800 | 54                                            | --                                                         | --            | 26.0                        | 8.6                                |
| 26...                                                                                   | 0745 | 52                                            | 350                                                        | 7.7           | 19.0                        | 6.6                                |
| 26...                                                                                   | 0925 | 52                                            | 350                                                        | 7.8           | 19.0                        | 8.1                                |
| 26...                                                                                   | 1350 | 51                                            | 380                                                        | 7.8           | 22.5                        | 7.7                                |
| 26...                                                                                   | 1650 | 51                                            | 380                                                        | 8.0           | 25.0                        | 8.4                                |
| 26...                                                                                   | 1930 | 50                                            | 350                                                        | 7.9           | 25.0                        | 8.1                                |
| 26...                                                                                   | 2247 | 49                                            | 270                                                        | 7.6           | 26.0                        | 6.1                                |
| 27...                                                                                   | 0025 | 49                                            | 350                                                        | 7.5           | 22.0                        | 6.0                                |
| 27...                                                                                   | 0245 | 49                                            | 360                                                        | 7.5           | 20.0                        | 5.7                                |
| 27...                                                                                   | 0900 | 48                                            | --                                                         | --            | 20.0                        | 8.4                                |
| 27...                                                                                   | 1000 | 48                                            | --                                                         | --            | 20.0                        | 8.8                                |
| 27...                                                                                   | 1100 | 48                                            | --                                                         | --            | 20.0                        | 9.5                                |
| 27...                                                                                   | 1200 | 48                                            | --                                                         | --            | 21.0                        | 9.8                                |
| 27...                                                                                   | 1400 | 48                                            | --                                                         | --            | 23.0                        | 10.6                               |
| 27...                                                                                   | 1500 | 48                                            | --                                                         | --            | 24.0                        | 10.8                               |
| 27...                                                                                   | 1600 | 48                                            | --                                                         | --            | 25.0                        | 10.8                               |
| 27...                                                                                   | 1700 | 48                                            | --                                                         | --            | 25.5                        | 10.6                               |
| 27...                                                                                   | 1800 | 48                                            | --                                                         | --            | 26.0                        | 10.0                               |
| 02435504 - SEWAGE DISPOSAL DITCH NO. 5 NEAR TUPELO, MISS. (LAT 34 12 19 LONG 088 40 24) |      |                                               |                                                            |               |                             |                                    |
| JUNE, 1974                                                                              |      |                                               |                                                            |               |                             |                                    |
| 26...                                                                                   | 0700 | .03                                           | 280                                                        | 9.8           | 18.0                        | 2.3                                |
| 26...                                                                                   | 0930 | .03                                           | 280                                                        | 9.3           | 20.0                        | 4.0                                |
| 26...                                                                                   | 1340 | .03                                           | 280                                                        | 9.0           | 22.5                        | 4.7                                |
| 26...                                                                                   | 1640 | .03                                           | 280                                                        | 9.9           | 25.0                        | 10.0                               |
| 26...                                                                                   | 1920 | .03                                           | 280                                                        | 10.1          | 25.0                        | 9.1                                |
| 26...                                                                                   | 2240 | .03                                           | 280                                                        | 8.7           | 23.0                        | 5.7                                |
| 27...                                                                                   | 0040 | .03                                           | 280                                                        | 10.0          | 21.5                        | 3.9                                |
| 27...                                                                                   | 0255 | .03                                           | 300                                                        | 10.4          | 20.0                        | 2.3                                |
| 02435515 - TOWN CREEK NEAR UNION, MISS. (LAT 34 09 18 LONG 088 39 40)                   |      |                                               |                                                            |               |                             |                                    |
| JUNE, 1974                                                                              |      |                                               |                                                            |               |                             |                                    |
| 26...                                                                                   | 0700 | 60                                            | 350                                                        | 7.6           | 21.8                        | 7.8                                |
| 26...                                                                                   | 0950 | 57                                            | 350                                                        | 7.8           | 22.0                        | 10.8                               |
| 26...                                                                                   | 1230 | 57                                            | 350                                                        | 8.0           | 23.0                        | 11.2                               |
| 26...                                                                                   | 1545 | 57                                            | 350                                                        | 8.4           | 24.3                        | 12.4                               |
| 26...                                                                                   | 1835 | 56                                            | 290                                                        | 8.3           | 24.0                        | 12.2                               |
| 26...                                                                                   | 2115 | 57                                            | 400                                                        | 8.1           | 23.0                        | 10.1                               |
| 27...                                                                                   | 0100 | 57                                            | 350                                                        | 7.9           | 22.5                        | 8.4                                |
| 27...                                                                                   | 0350 | 57                                            | 375                                                        | 7.8           | 23.0                        | 6.9                                |
| 02435830 - COONEWAH CREEK NEAR SHANNON, MISS. (LAT 34 07 20 LONG 088 39 58)             |      |                                               |                                                            |               |                             |                                    |
| JUNE, 1974                                                                              |      |                                               |                                                            |               |                             |                                    |
| 26...                                                                                   | 0630 | 17                                            | 230                                                        | 7.8           | 19.0                        | 10.4                               |
| 26...                                                                                   | 0930 | 17                                            | 230                                                        | 7.8           | 20.0                        | 10.6                               |
| 26...                                                                                   | 1305 | 17                                            | 230                                                        | 7.9           | 24.5                        | 8.5                                |
| 26...                                                                                   | 1615 | 17                                            | 230                                                        | 7.9           | 26.0                        | 7.9                                |
| 26...                                                                                   | 1855 | 17                                            | 230                                                        | 7.8           | 25.0                        | 7.5                                |
| 26...                                                                                   | 2155 | 17                                            | 165                                                        | 7.8           | 22.2                        | 7.6                                |
| 27...                                                                                   | 0120 | 17                                            | 180                                                        | 7.8           | 20.8                        | 8.1                                |
| 27...                                                                                   | 0330 | 17                                            | 220                                                        | 7.8           | 20.0                        | 7.8                                |

## ANALYSES OF SAMPLES COLLECTED DURING SHORT-TERM INTENSIVE STUDIES

## TUPELO AREA.--Continued

| DATE                                                                    | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHUS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------------------------------------------------------------------------|------|-----------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|
| 02435850 - TOWN CREEK NEAR SHANNON, MISS. (LAT 34 05 59 LONG 088 39 11) |      |                                               |                                                            |               |                             |                                    |
| JUNE, 1974                                                              |      |                                               |                                                            |               |                             |                                    |
| 25...                                                                   | 0700 | 77                                            | --                                                         | --            | 20.8                        | 7.7                                |
| 25...                                                                   | 0800 | 77                                            | --                                                         | --            | 20.8                        | 7.7                                |
| 25...                                                                   | 0900 | 77                                            | --                                                         | --            | 20.8                        | 8.2                                |
| 25...                                                                   | 1000 | 77                                            | --                                                         | --            | 20.8                        | 8.2                                |
| 25...                                                                   | 1100 | 77                                            | --                                                         | --            | 21.4                        | 9.1                                |
| 25...                                                                   | 1200 | 77                                            | --                                                         | --            | 21.4                        | 9.3                                |
| 25...                                                                   | 1300 | 77                                            | --                                                         | --            | 22.0                        | 9.9                                |
| 25...                                                                   | 1400 | 77                                            | --                                                         | --            | 22.2                        | 10.6                               |
| 25...                                                                   | 1500 | 77                                            | --                                                         | --            | 22.6                        | 10.7                               |
| 25...                                                                   | 1600 | 77                                            | --                                                         | --            | 23.0                        | 11.1                               |
| 25...                                                                   | 1700 | 77                                            | --                                                         | --            | 23.4                        | 11.5                               |
| 25...                                                                   | 1800 | 77                                            | --                                                         | --            | 23.8                        | 11.7                               |
| 26...                                                                   | 0600 | 74                                            | 300                                                        | 7.8           | 21.0                        | 7.4                                |
| 26...                                                                   | 0730 | 74                                            | --                                                         | --            | 21.4                        | 11.0                               |
| 26...                                                                   | 0900 | 74                                            | 350                                                        | 8.0           | 21.8                        | 11.7                               |
| 26...                                                                   | 1020 | 74                                            | --                                                         | --            | 22.0                        | 12.2                               |
| 26...                                                                   | 1115 | 74                                            | --                                                         | --            | 22.2                        | 13.0                               |
| 26...                                                                   | 1325 | 74                                            | 360                                                        | 8.2           | 22.5                        | 11.2                               |
| 26...                                                                   | 1420 | 74                                            | --                                                         | --            | 23.0                        | 11.8                               |
| 26...                                                                   | 1635 | 74                                            | 340                                                        | 8.4           | 23.2                        | 12.2                               |
| 26...                                                                   | 1725 | 74                                            | --                                                         | --            | 23.8                        | 13.2                               |
| 26...                                                                   | 1910 | 74                                            | 300                                                        | 8.2           | 23.9                        | 12.6                               |
| 26...                                                                   | 2020 | 74                                            | --                                                         | --            | 24.0                        | 12.2                               |
| 26...                                                                   | 2220 | 73                                            | 325                                                        | 8.2           | 23.8                        | 11.2                               |
| 26...                                                                   | 2310 | 73                                            | --                                                         | --            | 23.5                        | 10.8                               |
| 27...                                                                   | 0145 | 73                                            | 325                                                        | 8.1           | 22.8                        | 9.5                                |
| 27...                                                                   | 0300 | 73                                            | 325                                                        | 8.1           | 22.8                        | 9.6                                |
| 27...                                                                   | 0430 | 73                                            | --                                                         | --            | 22.5                        | 9.7                                |
| 27...                                                                   | 0610 | 73                                            | --                                                         | --            | 22.0                        | 9.2                                |
| 27...                                                                   | 0900 | 72                                            | --                                                         | --            | 22.2                        | 10.0                               |
| 27...                                                                   | 1000 | 72                                            | --                                                         | --            | 22.7                        | 10.5                               |
| 27...                                                                   | 1100 | 72                                            | --                                                         | --            | 23.0                        | 11.2                               |
| 27...                                                                   | 1200 | 72                                            | --                                                         | --            | 22.8                        | 11.0                               |
| 27...                                                                   | 1400 | 72                                            | --                                                         | --            | 23.0                        | 12.6                               |
| 27...                                                                   | 1430 | 72                                            | --                                                         | --            | 23.0                        | 12.8                               |
| 27...                                                                   | 1500 | 72                                            | --                                                         | --            | 23.1                        | 13.0                               |
| 27...                                                                   | 1600 | 72                                            | --                                                         | --            | 23.5                        | 13.6                               |
| 27...                                                                   | 1700 | 72                                            | --                                                         | --            | 23.4                        | 13.8                               |
| 27...                                                                   | 1800 | 72                                            | --                                                         | --            | 23.5                        | 14.2                               |

## 02436390 - CHIWAPA CREEK NEAR NETTLETON, MISS. (LAT 34 04 47 LONG 088 39 23)

|            |      |    |     |     |      |     |
|------------|------|----|-----|-----|------|-----|
| JUNE, 1974 |      |    |     |     |      |     |
| 26...      | 0740 | 75 | 280 | 7.9 | 21.0 | 8.7 |
| 26...      | 1040 | 74 | 290 | 8.0 | 23.0 | 8.6 |
| 26...      | 1400 | 73 | 290 | 8.1 | 27.5 | 8.3 |
| 26...      | 1655 | 73 | 270 | 8.1 | 29.0 | 8.8 |
| 26...      | 2100 | 72 | 280 | 8.0 | 25.5 | 8.6 |
| 26...      | 2320 | 71 | 280 | 8.0 | 23.0 | 8.9 |
| 27...      | 0200 | 71 | 280 | 8.0 | 21.0 | 8.4 |
| 27...      | 0330 | 71 | 230 | 8.0 | 21.0 | 8.2 |

## 02436425 - SEWAGE DISPOSAL DITCH NO. 1 AT NETTLETON, MISS. (LAT 34 06 01 LONG 088 37 34)

|            |      |      |     |      |    |    |
|------------|------|------|-----|------|----|----|
| JUNE, 1974 |      |      |     |      |    |    |
| 27...      | 0550 | E.00 | 340 | 10.6 | -- | -- |

## 02436435 - SEWAGE DISPOSAL DITCH NO. 2 AT NETTLETON, MISS. (LAT 34 05 31 LONG 088 38 14)

|            |      |      |     |      |      |       |
|------------|------|------|-----|------|------|-------|
| JUNE, 1974 |      |      |     |      |      |       |
| 26...      | 0745 | E.02 | 310 | 10.4 | 22.8 | 15.2  |
| 26...      | 1030 | E.02 | 280 | 8.7  | 24.0 | 7.2   |
| 26...      | 1350 | E.02 | 320 | 8.8  | 27.0 | >20.0 |
| 26...      | 1650 | E.02 | 320 | 8.6  | 27.0 | >20.0 |
| 26...      | 1930 | E.02 | 350 | 10.4 | 27.2 | >20.0 |
| 26...      | 2245 | E.02 | 340 | 10.4 | 27.0 | >20.0 |
| 27...      | 0210 | E.02 | 300 | 10.1 | 24.0 | 9.5   |
| 27...      | 0450 | E.02 | 290 | 10.3 | 23.0 | 8.8   |

## TUPELO AREA.--Continued

| DATE                                                                                     | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|------------------------------------------------------------------------------------------|------|------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|
| 02436485 - SEWAGE DISPOSAL DITCH NO. 3 AT NETTLETON, MISS. (LAT 34 04 16 LONG 088 37 30) |      |                                          |                                                            |               |                             |                                    |
| JUNE, 1974                                                                               |      |                                          |                                                            |               |                             |                                    |
| 26...                                                                                    | 0810 | .04                                      | 280                                                        | 7.0           | 27.2                        | 6.2                                |
| 26...                                                                                    | 1100 | .04                                      | 280                                                        | 6.4           | 24.0                        | >20.0                              |
| 26...                                                                                    | 1400 | .04                                      | 290                                                        | 6.2           | 24.5                        | 14.0                               |
| 26...                                                                                    | 1700 | .04                                      | 290                                                        | 6.2           | 26.1                        | >20.0                              |
| 26...                                                                                    | 1955 | .04                                      | 290                                                        | 6.2           | 26.0                        | >20.0                              |
| 26...                                                                                    | 2300 | .04                                      | 250                                                        | 6.2           | 26.0                        | >20.0                              |
| 27...                                                                                    | 0230 | .04                                      | 270                                                        | 6.3           | 23.0                        | 9.9                                |
| 27...                                                                                    | 0515 | .04                                      | 270                                                        | 10.4          | 22.5                        | 7.1                                |
| 02436500 - TOWN CREEK NEAR NETTLETON, MISS. (LAT 34 03 32 LONG 088 37 40)                |      |                                          |                                                            |               |                             |                                    |
| JUNE, 1974                                                                               |      |                                          |                                                            |               |                             |                                    |
| 26...                                                                                    | 0650 | 155                                      | 290                                                        | 7.9           | 20.0                        | 8.8                                |
| 26...                                                                                    | 1010 | 154                                      | 300                                                        | 8.3           | 23.0                        | 9.6                                |
| 26...                                                                                    | 1425 | 153                                      | 300                                                        | 8.5           | 27.5                        | 11.4                               |
| 26...                                                                                    | 1630 | 152                                      | 300                                                        | 8.5           | 27.5                        | 12.0                               |
| 26...                                                                                    | 2115 | 150                                      | 340                                                        | 8.2           | 23.5                        | 10.4                               |
| 26...                                                                                    | 2250 | 149                                      | 340                                                        | 8.2           | 23.0                        | 10.0                               |
| 27...                                                                                    | 0115 | 148                                      | 325                                                        | 8.0           | 22.0                        | 9.2                                |
| 27...                                                                                    | 0310 | 147                                      | 325                                                        | 8.0           | 22.0                        | 9.0                                |
| 02436515 - SEWAGE DISPOSAL DITCH NO. 4 AT NETTLETON, MISS. (LAT 34 05 05 LONG 088 36 46) |      |                                          |                                                            |               |                             |                                    |
| JUNE, 1974                                                                               |      |                                          |                                                            |               |                             |                                    |
| 27...                                                                                    | 0540 | .06                                      | 280                                                        | 10.6          | --                          | --                                 |
| 02436800 - TOWN CREEK NEAR BIGBEE, MISS. (LAT 34 01 20 LONG 088 33 15)                   |      |                                          |                                                            |               |                             |                                    |
| JUNE, 1974                                                                               |      |                                          |                                                            |               |                             |                                    |
| 26...                                                                                    | 0950 | 152                                      | 280                                                        | 7.9           | 22.0                        | 8.7                                |
| 26...                                                                                    | 1200 | 152                                      | 290                                                        | 8.1           | 23.0                        | 9.9                                |
| 26...                                                                                    | 1540 | 151                                      | 290                                                        | 8.3           | 26.0                        | 11.6                               |
| 26...                                                                                    | 1830 | 151                                      | 280                                                        | 8.3           | 26.0                        | 11.4                               |
| 26...                                                                                    | 2230 | 150                                      | 290                                                        | 8.1           | 25.0                        | 9.4                                |
| 26...                                                                                    | 2359 | 150                                      | 300                                                        | 8.0           | 24.0                        | 9.1                                |
| 27...                                                                                    | 0240 | 149                                      | 300                                                        | 7.9           | 23.0                        | 8.5                                |
| 27...                                                                                    | 0415 | 148                                      | 300                                                        | 7.9           | 21.0                        | 8.5                                |
| 02436998 - TOWN CREEK AT MOUTH NEAR AMORY, MISS. (LAT 33 59 23 LONG 088 32 55)           |      |                                          |                                                            |               |                             |                                    |
| JUNE, 1974                                                                               |      |                                          |                                                            |               |                             |                                    |
| 26...                                                                                    | 0845 | 195                                      | 280                                                        | 8.0           | 19.0                        | 8.8                                |
| 26...                                                                                    | 1050 | 194                                      | 280                                                        | 8.1           | 24.0                        | 10.0                               |
| 26...                                                                                    | 1450 | 189                                      | 280                                                        | 8.4           | 25.0                        | 12.0                               |
| 26...                                                                                    | 1750 | 185                                      | 280                                                        | 8.4           | 24.0                        | 13.8                               |
| 26...                                                                                    | 2150 | 180                                      | 300                                                        | 8.1           | 24.0                        | 9.6                                |

## ANALYSES OF SAMPLES COLLECTED DURING SHORT-TERM INTENSIVE STUDIES

## TUPELO AREA.--Continued

| DATE                                                                                    | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>ORTHO<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) |
|-----------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------|-----------------------------------------------------|
| 02434575 - MUD CREEK NEAR TUPELO, MISS. (LAT 34 18 56 LONG 088 41 42)                   |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| JUNE, 1974<br>26-27                                                                     | .04                                                  | .00                                       | .47                                       | .47                                                      | .51                                     | 2.3                                       | .01                                       | .01                                                | 1.9                                                 |
| 02435000 - MUD CREEK AT TUPELO, MISS. (LAT 34 15 26 LONG 088 41 05)                     |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| JUNE, 1974<br>26-27                                                                     | .03                                                  | .00                                       | .40                                       | .40                                                      | .43                                     | 1.9                                       | .06                                       | .01                                                | 2.3                                                 |
| 02435020 - TOWN CREEK AT EASON BOULEVARD AT TUPELO, MISS. (LAT 34 14 08 LONG 088 41 43) |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| JUNE, 1974<br>26-27                                                                     | .21                                                  | .25                                       | .51                                       | .76                                                      | .97                                     | 4.3                                       | .16                                       | .14                                                | 4.0                                                 |
| 02435500 - TOWN CREEK NEAR VERONA, MISS. (LAT 34 11 53 LONG 088 40 57)                  |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| JUNE, 1974<br>26-27                                                                     | .14                                                  | .00                                       | 1.9                                       | 1.9                                                      | 2.0                                     | 9.0                                       | .37                                       | .23                                                | 7.2                                                 |
| 02435515 - TOWN CREEK NEAR UNION, MISS. (LAT 34 09 18 LONG 088 39 40)                   |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| JUNE, 1974<br>26-27                                                                     | .27                                                  | .12                                       | 1.4                                       | 1.5                                                      | 1.8                                     | 7.8                                       | .32                                       | .26                                                | 7.5                                                 |
| 02435830 - COONEWAH CREEK NEAR SHANNON, MISS. (LAT 34 07 20 LONG 088 39 58)             |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| JUNE, 1974<br>26-27                                                                     | .11                                                  | .00                                       | .55                                       | .55                                                      | .66                                     | 2.9                                       | .06                                       | .04                                                | 2.6                                                 |
| 02435850 - TOWN CREEK NEAR SHANNON, MISS. (LAT 34 05 59 LONG 088 39 11)                 |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| JUNE, 1974<br>26-27                                                                     | .00                                                  | .00                                       | 1.1                                       | 1.1                                                      | 1.1                                     | 4.9                                       | .13                                       | .04                                                | 6.2                                                 |
| 02436390 - CHIWAHA CREEK NEAR NETTLETON, MISS. (LAT 34 04 47 LONG 088 39 23)            |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| JUNE, 1974<br>26-27                                                                     | .00                                                  | .00                                       | .27                                       | .27                                                      | .27                                     | 1.2                                       | .03                                       | .01                                                | 1.9                                                 |
| 02436500 - TOWN CREEK NEAR NETTLETON, MISS. (LAT 34 03 32 LONG 088 37 40)               |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| JUNE, 1974<br>26-27                                                                     | .00                                                  | .00                                       | 1.0                                       | 1.0                                                      | 1.0                                     | 4.4                                       | .09                                       | .03                                                | 5.8                                                 |
| 02436800 - TOWN CREEK NEAR BIGBEE, MISS. (LAT 34 01 20 LONG 088 33 15)                  |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| JUNE, 1974<br>26-27                                                                     | .01                                                  | .00                                       | .71                                       | .71                                                      | .72                                     | 3.2                                       | .04                                       | .01                                                | 4.2                                                 |
| 02436998 - TOWN CREEK AT MOUTH NEAR AMORY, MISS. (LAT 33 59 23 LONG 088 32 55)          |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| JUNE, 1974<br>26-27                                                                     | .00                                                  | .00                                       | .72                                       | .72                                                      | .72                                     | 3.2                                       | .04                                       | .01                                                | 4.3                                                 |



## TUPELO AREA.--Continued

| DATE                                                                                     | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) |
|------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------|
| 02435028 - SEWAGE DISPOSAL DITCH NO. 1 AT TUPELO, MISS. (LAT 34 13 45 LONG 088 41 30)    |                                                          |                                                     |
| JUNE, 1974<br>26-27                                                                      | 13                                                       | 30                                                  |
| 02435246 - SEWAGE DISPOSAL DITCH NO. 2 AT TUPELO, MISS. (LAT 34 13 21 LONG 088 41 48)    |                                                          |                                                     |
| JUNE, 1974<br>26-27                                                                      | 6.0                                                      | 25                                                  |
| 02435254 - SEWAGE DISPOSAL DITCH NO. 3 AT TUPELO, MISS. (LAT 34 13 07 LONG 088 41 45)    |                                                          |                                                     |
| JUNE, 1974<br>26-27                                                                      | 9.2                                                      | 24                                                  |
| 02435257 - SEWAGE DISPOSAL DITCH NO. 4 AT TUPELO, MISS. (LAT 34 13 01 LONG 088 41 43)    |                                                          |                                                     |
| JUNE, 1974<br>26-27                                                                      | 28                                                       | 27                                                  |
| 02435504 - SEWAGE DISPOSAL DITCH NO. 5 NEAR TUPELO, MISS. (LAT 34 12 19 LONG 088 40 24)  |                                                          |                                                     |
| JUNE, 1974<br>26-27                                                                      | 4.8                                                      | 20                                                  |
| 02436425 - SEWAGE DISPOSAL DITCH NO. 1 AT NETTLETON, MISS. (LAT 34 06 01 LONG 088 37 34) |                                                          |                                                     |
| JUNE, 1974<br>27...                                                                      | 14                                                       | 31                                                  |
| 02436435 - SEWAGE DISPOSAL DITCH NO. 2 AT NETTLETON, MISS. (LAT 34 05 31 LONG 088 38 14) |                                                          |                                                     |
| JUNE, 1974<br>26-27                                                                      | 1.6                                                      | 30                                                  |
| 02436485 - SEWAGE DISPOSAL DITCH NO. 3 AT NETTLETON, MISS. (LAT 34 04 16 LONG 088 37 30) |                                                          |                                                     |
| JUNE, 1974<br>26-27                                                                      | 15                                                       | 31                                                  |
| 02436515 - SEWAGE DISPOSAL DITCH NO. 4 AT NETTLETON, MISS. (LAT 34 05 05 LONG 088 36 46) |                                                          |                                                     |
| JUNE, 1974<br>27...                                                                      | 2.1                                                      | 11                                                  |

## ANALYSES OF SAMPLES COLLECTED DURING SHORT-TERM INTENSIVE STUDIES

## HATTIESBURG AREA

An intensive study of the quality of surface waters in the Hattiesburg area was conducted Oct. 15-19, 1974. Samples were obtained at 27 sites on Bowie and Leaf Rivers and their tributaries. Listed below are site locations and results of laboratory analyses and field determinations of water quality during the study.

| DATE                                                                    | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SPL-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------------------------------------------------------------------------|------|-----------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|
| 02472374 - BOGGY BRANCH NEAR PETAL, MISS. (LAT 31 21 47 LONG 089 16 12) |      |                                               |                                                            |               |                             |                                    |
| OCT., 1973                                                              |      |                                               |                                                            |               |                             |                                    |
| 16...                                                                   | 0755 | 1.2                                           | 360                                                        | 6.4           | 21.5                        | 7.5                                |
| 16...                                                                   | 1200 | 1.2                                           | 400                                                        | 6.4           | 22.5                        | 8.2                                |
| 17...                                                                   | 0755 | 1.2                                           | 140                                                        | 6.5           | 18.5                        | 8.2                                |
| 17...                                                                   | 1110 | 1.4                                           | 155                                                        | 6.5           | 19.0                        | 8.1                                |
| 17...                                                                   | 1450 | 1.4                                           | 160                                                        | 6.9           | 20.0                        | 8.0                                |
| 17...                                                                   | 1830 | 1.6                                           | 170                                                        | 6.4           | 19.0                        | 8.4                                |
| 17...                                                                   | 2305 | 1.8                                           | 180                                                        | 6.5           | 18.0                        | 8.7                                |
| 18...                                                                   | 0230 | 2.0                                           | 200                                                        | 6.5           | 16.0                        | 8.7                                |
| 18...                                                                   | 0620 | 2.2                                           | 210                                                        | 6.5           | 15.0                        | 9.3                                |
| 18...                                                                   | 1010 | 2.1                                           | 295                                                        | 6.3           | 16.0                        | 9.4                                |
| 18...                                                                   | 1330 | 2.2                                           | 290                                                        | 6.5           | 19.0                        | 9.4                                |
| 18...                                                                   | 1545 | 2.3                                           | 275                                                        | 6.3           | 19.0                        | 9.5                                |

02472375 - LEAF RIVER AB BOWIE RIVER AT HATTIESBURG, MISS. (LAT 31 20 40 LONG 089 16 46)

|            |      |     |    |     |      |     |
|------------|------|-----|----|-----|------|-----|
| OCT., 1973 |      |     |    |     |      |     |
| 16...      | 0820 | 349 | 59 | 6.5 | 22.5 | 7.9 |
| 16...      | 1210 | 349 | 59 | 6.5 | 23.5 | 7.8 |
| 17...      | 0820 | 385 | 60 | 6.6 | 20.0 | 8.3 |
| 17...      | 1125 | 463 | 60 | 6.5 | 20.5 | 8.4 |
| 17...      | 1500 | 485 | 60 | 6.5 | 22.0 | 8.4 |
| 17...      | 1745 | 492 | 62 | 6.6 | 21.5 | 8.4 |
| 17...      | 2320 | 517 | 57 | 6.5 | 20.0 | 8.4 |
| 18...      | 0250 | 520 | 58 | 6.5 | 19.5 | 8.8 |
| 18...      | 0630 | 525 | 56 | 6.5 | 18.0 | 8.7 |
| 18...      | 1030 | 530 | 60 | 6.6 | 19.0 | 8.8 |
| 18...      | 1345 | 530 | 58 | 6.5 | 20.0 | 8.7 |
| 18...      | 1600 | 530 | 53 | 6.1 | 21.0 | 7.8 |

02472500 - BOWIE CREEK NEAR HATTIESBURG, MISS (LAT 31 25 32 LONG 089 24 53)

|            |      |     |    |     |      |     |
|------------|------|-----|----|-----|------|-----|
| OCT., 1973 |      |     |    |     |      |     |
| 16...      | 0645 | 195 | 28 | 6.7 | 22.0 | 8.1 |
| 16...      | 1020 | 195 | 28 | 6.4 | 22.0 | 8.2 |
| 16...      | 1315 | 195 | 30 | 7.3 | 22.0 | 8.3 |
| 16...      | 1545 | 185 | 28 | 7.2 | 22.0 | 8.7 |
| 17...      | 0730 | 250 | 28 | 6.6 | 20.0 | 8.7 |
| 17...      | 1215 | 260 | 29 | 6.5 | 20.0 | 9.2 |
| 17...      | 1735 | 270 | 30 | 6.7 | 20.0 | 9.0 |
| 17...      | 2120 | 270 | 27 | 6.5 | 19.0 | 8.5 |
| 18...      | 0015 | 270 | 24 | 6.6 | 19.0 | 8.4 |
| 18...      | 0330 | 278 | 27 | 6.4 | 18.0 | 8.3 |
| 18...      | 0730 | 278 | 28 | 6.6 | 18.0 | 9.3 |
| 18...      | 1015 | 278 | 32 | 6.6 | 18.0 | 9.7 |
| 18...      | 1215 | 278 | 31 | 6.6 | 18.0 | 9.6 |
| 18...      | 1500 | 278 | 30 | 6.3 | 21.0 | 9.4 |

02472860 - OKATOMA CREEK AT LUX, MISS. (LAT 31 26 35 LONG 089 24 23)

|            |      |     |    |     |      |     |
|------------|------|-----|----|-----|------|-----|
| OCT., 1973 |      |     |    |     |      |     |
| 16...      | 0710 | 186 | 42 | 6.6 | 22.0 | 8.0 |
| 16...      | 1035 | 186 | 40 | 6.5 | 22.0 | 7.8 |
| 16...      | 1330 | 186 | 42 | 6.5 | 22.0 | 8.0 |
| 16...      | 1605 | 200 | 42 | 7.1 | 21.0 | 7.6 |
| 17...      | 0830 | 230 | -- | 6.5 | --   | 7.4 |
| 17...      | 1230 | 260 | 46 | 6.5 | 20.0 | 8.9 |
| 17...      | 1750 | 270 | 44 | 6.6 | 20.0 | 8.4 |
| 17...      | 2135 | 270 | 48 | 6.6 | 19.0 | 8.4 |
| 18...      | 0030 | 265 | 42 | 6.5 | 18.0 | 8.4 |
| 18...      | 0345 | 260 | 45 | 6.4 | 17.0 | 8.4 |
| 18...      | 0750 | 260 | 43 | 6.5 | 17.0 | 9.3 |
| 18...      | 1020 | 260 | 48 | 6.4 | 18.0 | 9.7 |
| 18...      | 1225 | 250 | 46 | 6.7 | 18.0 | 8.5 |
| 18...      | 1510 | 250 | 44 | 6.4 | 21.0 | 8.6 |

## HATTIESBURG AREA.--Continued

| DATE | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|------|------|-----------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|
|------|------|-----------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|

02472875 - PROVIDENCE CREEK NEAR GLENDALE, MISS. (LAT 31 24 30 LONG 089 22 14)

OCT., 1973

|       |      |     |    |     |      |     |
|-------|------|-----|----|-----|------|-----|
| 16... | 0730 | 9.4 | 24 | 6.5 | 21.0 | 7.8 |
| 16... | 1055 | 9.4 | 25 | 6.6 | 22.0 | 7.7 |
| 16... | 1340 | 9.4 | 22 | 6.7 | 21.0 | 7.8 |
| 16... | 1615 | 9.4 | 26 | 7.0 | 20.0 | 7.4 |
| 17... | 0845 | 9.4 | 30 | 6.4 | 18.0 | 8.3 |
| 17... | 1245 | 9.4 | 28 | 6.6 | 20.0 | 8.6 |
| 17... | 1800 | 9.4 | 27 | 6.6 | 19.0 | 8.7 |
| 17... | 2150 | 9.4 | 25 | 6.6 | 18.0 | 8.5 |
| 18... | 0050 | 9.4 | 29 | 6.5 | 17.0 | 8.8 |
| 18... | 0400 | 9.4 | 24 | 6.5 | 15.0 | 8.6 |
| 18... | 0850 | 9.4 | 24 | 6.6 | 16.0 | 9.6 |
| 18... | 1030 | 9.4 | 28 | 6.5 | 16.0 | 9.8 |
| 18... | 1235 | 9.4 | 26 | 6.5 | 18.0 | 8.9 |
| 18... | 1520 | 9.4 | 27 | 6.5 | 20.0 | 8.0 |

02472880 - ROWIE RIVER NEAR GLENDALE, MISS. (LAT 31 23 44 LONG 089 21 56)

OCT., 1973

|       |      |     |    |     |      |     |
|-------|------|-----|----|-----|------|-----|
| 16... | 0740 | 409 | 36 | 6.5 | 22.0 | 8.0 |
| 16... | 1100 | 409 | 36 | 6.6 | 22.0 | 8.1 |
| 16... | 1350 | 410 | 36 | 6.6 | 22.0 | 8.1 |
| 16... | 1625 | 389 | 36 | 6.9 | 21.0 | 7.8 |
| 17... | 0850 | 525 | -- | 6.4 | --   | --  |
| 17... | 1255 | 563 | 38 | 6.6 | 20.0 | 9.0 |
| 17... | 1815 | 567 | 38 | 6.7 | 20.0 | 8.6 |
| 17... | 2200 | 567 | 34 | 6.7 | 19.0 | 8.7 |
| 18... | 0110 | 567 | 32 | 6.5 | 18.0 | 8.5 |
| 18... | 0410 | 584 | 40 | 6.5 | 17.0 | 8.3 |
| 18... | 0800 | 584 | 37 | 6.5 | 17.0 | 9.4 |
| 18... | 1040 | 584 | 40 | 6.5 | 18.0 | 9.9 |
| 18... | 1245 | 567 | 38 | 6.6 | 19.0 | 8.9 |
| 18... | 1530 | 567 | 39 | 6.5 | 20.0 | 9.0 |

02472900 - BIG CREEK NEAR HATTIESBURG, MISS. (LAT 31 23 18 LONG 089 22 34)

OCT., 1973

|       |      |     |    |     |      |     |
|-------|------|-----|----|-----|------|-----|
| 16... | 0750 | 3.4 | 36 | 6.1 | 22.0 | 6.4 |
| 16... | 1115 | 3.5 | 36 | 6.1 | 22.0 | 7.1 |
| 16... | 1400 | 3.7 | 35 | 6.4 | 22.0 | 7.7 |
| 16... | 1635 | 4.2 | 35 | 6.6 | 21.0 | 7.0 |
| 17... | 0905 | 2.3 | 36 | 6.2 | 18.0 | 8.3 |
| 17... | 1305 | 2.1 | 34 | 6.4 | 20.0 | 9.6 |
| 17... | 1820 | 2.1 | 32 | 6.5 | 19.0 | 8.9 |
| 17... | 2210 | 2.1 | 30 | 6.4 | 18.0 | 7.9 |
| 18... | 0120 | 1.9 | 29 | 6.4 | 17.0 | 7.7 |
| 18... | 0420 | 1.8 | 30 | 6.4 | 16.0 | 7.5 |
| 18... | 0715 | 1.8 | 30 | 6.4 | 16.0 | 9.0 |
| 18... | 1000 | 1.8 | 35 | 6.4 | 16.0 | 9.8 |
| 18... | 1255 | 1.7 | 32 | 6.4 | 17.0 | 8.4 |
| 18... | 1445 | 1.7 | 33 | 6.4 | 16.0 | 9.0 |

02472920 - MINERAL CREEK NEAR GLENDALE, MISS. (LAT 31 22 48 LONG 089 22 02)

OCT., 1973

|       |      |     |    |     |      |     |
|-------|------|-----|----|-----|------|-----|
| 16... | 0800 | .11 | 75 | 6.3 | 22.0 | 3.0 |
| 16... | 1125 | .11 | 75 | 6.2 | 22.0 | 2.7 |
| 16... | 1410 | .11 | 76 | 6.3 | 22.0 | 3.1 |
| 16... | 1645 | .11 | 75 | 6.5 | 20.0 | 3.9 |
| 17... | 0920 | .11 | 79 | 6.1 | 18.0 | 4.2 |
| 17... | 1315 | .11 | 80 | 6.3 | 20.0 | 3.4 |
| 17... | 1830 | .11 | 75 | 6.3 | 19.0 | 3.4 |
| 17... | 2220 | .11 | 70 | 6.2 | 17.0 | 2.8 |
| 18... | 0130 | .11 | 64 | 6.2 | 16.0 | 2.9 |
| 18... | 0430 | .11 | 70 | 6.2 | 15.0 | 2.9 |
| 18... | 0810 | .11 | 74 | 6.3 | 15.0 | 4.7 |
| 18... | 1050 | .11 | 86 | 6.5 | 15.0 | 5.1 |
| 18... | 1305 | .11 | 85 | 6.4 | 17.0 | 5.5 |
| 18... | 1540 | .11 | 84 | 6.6 | 19.0 | 6.0 |

## ANALYSES OF SAMPLES COLLECTED DURING SHORT-TERM INTENSIVE STUDIES

## HATTIESBURG AREA.--Continued

| DATE                                                                         | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHUS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|------------------------------------------------------------------------------|------|-----------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|
| 02472940 - BOWIE RIVER NEAR HATTIESBURG, MISS. (LAT 31 22 03 LONG 089 20 11) |      |                                               |                                                            |               |                             |                                    |
| OCT., 1973                                                                   |      |                                               |                                                            |               |                             |                                    |
| 16...                                                                        | 0820 | 410                                           | 37                                                         | 6.7           | 22.0                        | 7.7                                |
| 16...                                                                        | 1150 | 410                                           | 38                                                         | 6.6           | 21.0                        | 8.3                                |
| 16...                                                                        | 1425 | 390                                           | 36                                                         | 6.5           | 22.0                        | 7.9                                |
| 16...                                                                        | 1705 | 527                                           | 36                                                         | 6.6           | 21.0                        | 7.8                                |
| 17...                                                                        | 0950 | 565                                           | 36                                                         | 6.3           | 19.0                        | 8.3                                |
| 17...                                                                        | 1335 | 568                                           | 39                                                         | 6.6           | 20.0                        | 9.0                                |
| 17...                                                                        | 1855 | 568                                           | 36                                                         | 6.7           | 20.0                        | 8.5                                |
| 17...                                                                        | 2240 | 568                                           | 32                                                         | 6.6           | 20.0                        | 8.4                                |
| 18...                                                                        | 0145 | 585                                           | 31                                                         | 6.4           | 18.0                        | 8.2                                |
| 18...                                                                        | 0450 | 585                                           | 38                                                         | 6.2           | 16.0                        | 8.0                                |
| 18...                                                                        | 0825 | 585                                           | 40                                                         | 6.5           | 17.0                        | 9.4                                |
| 18...                                                                        | 1105 | 568                                           | 42                                                         | 6.5           | 18.0                        | 9.7                                |
| 18...                                                                        | 1325 | 568                                           | 42                                                         | 6.5           | 18.0                        | 8.8                                |
| 18...                                                                        | 1555 | 568                                           | 42                                                         | 6.6           | 19.0                        | 8.6                                |
| 02472945 - MIXONS CREEK NEAR GLENDALE, MISS. (LAT 31 21 21 LONG 089 20 21)   |      |                                               |                                                            |               |                             |                                    |
| OCT., 1973                                                                   |      |                                               |                                                            |               |                             |                                    |
| 16...                                                                        | 0840 | 5.2                                           | 67                                                         | 6.6           | 23.0                        | 5.6                                |
| 16...                                                                        | 1205 | 5.2                                           | 68                                                         | 6.6           | 22.0                        | 5.8                                |
| 16...                                                                        | 1440 | 5.4                                           | 70                                                         | 6.5           | 22.0                        | 6.1                                |
| 16...                                                                        | 1720 | 7.2                                           | 75                                                         | 6.6           | 21.0                        | 6.5                                |
| 17...                                                                        | 1020 | 7.2                                           | 85                                                         | 6.9           | 18.0                        | 7.5                                |
| 17...                                                                        | 1400 | 7.2                                           | 65                                                         | 6.7           | 20.0                        | 8.5                                |
| 17...                                                                        | 1915 | 6.8                                           | 54                                                         | 6.6           | 19.0                        | 8.2                                |
| 17...                                                                        | 2300 | 6.4                                           | 50                                                         | 6.5           | 18.0                        | 7.8                                |
| 18...                                                                        | 0205 | 6.0                                           | 43                                                         | 6.2           | 16.0                        | 6.1                                |
| 18...                                                                        | 0510 | 6.0                                           | 48                                                         | 6.4           | 15.0                        | 7.8                                |
| 18...                                                                        | 0840 | 5.6                                           | 50                                                         | 6.5           | 15.0                        | 9.0                                |
| 18...                                                                        | 1120 | 5.6                                           | 56                                                         | 6.4           | 16.0                        | 9.6                                |
| 18...                                                                        | 1335 | 5.6                                           | 52                                                         | 6.4           | 18.0                        | 8.3                                |
| 18...                                                                        | 1610 | 5.6                                           | 53                                                         | 6.3           | 18.0                        | 8.2                                |
| 02472978 - BAY CREEK AT GLENDALE, MISS. (LAT 31 21 48 LONG 089 18 20)        |      |                                               |                                                            |               |                             |                                    |
| OCT., 1973                                                                   |      |                                               |                                                            |               |                             |                                    |
| 16...                                                                        | 0710 | .37                                           | 36                                                         | 6.0           | 22.5                        | 5.6                                |
| 16...                                                                        | 1110 | 1.1                                           | 38                                                         | 5.9           | 22.5                        | 5.8                                |
| 16...                                                                        | 1550 | 1.1                                           | 38                                                         | 6.2           | 22.0                        | 6.1                                |
| 17...                                                                        | 1030 | .18                                           | 40                                                         | 5.9           | 18.0                        | 8.4                                |
| 17...                                                                        | 1310 | .13                                           | 42                                                         | 5.9           | 20.0                        | 8.7                                |
| 17...                                                                        | 1800 | .09                                           | 42                                                         | 6.2           | 19.5                        | 7.9                                |
| 17...                                                                        | 2225 | .04                                           | 46                                                         | 6.0           | 18.0                        | 7.7                                |
| 18...                                                                        | 0240 | .02                                           | 35                                                         | --            | 15.0                        | 7.7                                |
| 18...                                                                        | 0540 | .02                                           | 38                                                         | 6.1           | 15.0                        | 7.1                                |
| 18...                                                                        | 0905 | .04                                           | 38                                                         | 6.1           | 15.0                        | 8.9                                |
| 18...                                                                        | 1400 | .02                                           | 39                                                         | 5.8           | 16.0                        | 7.3                                |
| 18...                                                                        | 1620 | .02                                           | 39                                                         | 5.8           | 17.0                        | 7.2                                |
| 02472980 - BOWIE RIVER AT HATTIESBURG, MISS. (LAT 31 20 58 LONG 089 18 18)   |      |                                               |                                                            |               |                             |                                    |
| OCT., 1973                                                                   |      |                                               |                                                            |               |                             |                                    |
| 16...                                                                        | 0645 | 396                                           | 32                                                         | 6.4           | 23.0                        | 7.6                                |
| 16...                                                                        | 1055 | 376                                           | 31                                                         | 6.2           | 23.0                        | 7.4                                |
| 16...                                                                        | 1525 | 350                                           | 34                                                         | 6.3           | 22.5                        | 7.3                                |
| 17...                                                                        | 1040 | 503                                           | 38                                                         | 6.1           | 21.0                        | 8.2                                |
| 17...                                                                        | 1430 | 550                                           | 38                                                         | 6.3           | 22.0                        | 8.2                                |
| 17...                                                                        | 1750 | 564                                           | 34                                                         | 6.3           | 22.0                        | 7.8                                |
| 17...                                                                        | 2205 | 587                                           | 35                                                         | 6.4           | 21.0                        | 8.2                                |
| 18...                                                                        | 0230 | 592                                           | 32                                                         | --            | 20.0                        | 6.8                                |
| 18...                                                                        | 0520 | 592                                           | 48                                                         | 6.5           | 18.0                        | 7.0                                |
| 18...                                                                        | 0930 | 600                                           | 36                                                         | 6.3           | 20.0                        | 9.0                                |
| 18...                                                                        | 1345 | 608                                           | 38                                                         | 6.4           | 21.0                        | 7.0                                |
| 18...                                                                        | 1635 | 608                                           | 39                                                         | 6.3           | 21.0                        | 7.0                                |

## HATTIESBURG AREA.--Continued

| DATE | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SPL-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|------|------|-----------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|
|------|------|-----------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|

02472995 - BOWIE RIVER TRIBUTARY AT HATTIESBURG, MISS. (LAT 31 20 37 LONG 089 17 46)

OCT., 1973

|       |      |    |      |     |      |     |
|-------|------|----|------|-----|------|-----|
| 16... | 0725 | 14 | 450  | 7.5 | 40.0 | 4.6 |
| 16... | 1130 | 14 | >800 | 9.0 | 40.0 | 4.6 |
| 16... | 1655 | 14 | 575  | 7.6 | 34.0 | 5.2 |
| 17... | 0715 | 14 | >800 | 7.0 | 37.0 | 4.2 |
| 17... | 1055 | 15 | 500  | 7.0 | 36.0 | 4.5 |
| 17... | 1430 | 14 | >800 | 7.3 | 36.5 | 4.2 |
| 17... | 1815 | 13 | >800 | 7.1 | 39.0 | 4.1 |
| 17... | 2250 | 14 | >800 | 7.2 | 37.0 | 4.7 |
| 18... | 0220 | 14 | >800 | 6.7 | 37.0 | 4.3 |
| 18... | 0605 | 14 | 500  | 8.5 | 36.0 | 4.4 |
| 18... | 0955 | 14 | >800 | 6.2 | 38.0 | 4.8 |
| 18... | 1305 | 14 | >800 | 6.0 | 37.0 | 5.3 |
| 18... | 1525 | 14 | >800 | 7.7 | 37.0 | 4.2 |

02472999 - BOWIE RIVER AT MOUTH AT HATTIESBURG, MISS. (LAT 31 20 38 LONG 089 16 50)

OCT., 1973

|       |      |     |    |     |      |     |
|-------|------|-----|----|-----|------|-----|
| 16... | 0830 | 502 | 57 | 6.3 | 23.5 | 5.7 |
| 16... | 1225 | 502 | 62 | 6.5 | 24.0 | 5.3 |
| 17... | 0940 | 637 | 60 | 6.2 | 22.0 | 5.8 |
| 17... | 1130 | 667 | 53 | 6.4 | 23.0 | 6.1 |
| 17... | 1510 | 696 | 50 | 6.4 | 23.0 | 6.0 |
| 17... | 1805 | 714 | 60 | 6.4 | 22.5 | 6.4 |
| 17... | 2340 | 743 | 56 | 6.5 | 22.0 | 6.8 |
| 18... | 0310 | 749 | 48 | 6.4 | 22.0 | 6.6 |
| 18... | 0650 | 758 | 50 | 6.4 | 21.5 | 6.9 |
| 18... | 1055 | 767 | 58 | 6.2 | 21.0 | 7.2 |
| 18... | 1320 | 773 | 53 | 6.3 | 21.5 | 6.8 |
| 18... | 1530 | 770 | 50 | 6.0 | 22.0 | --  |

02473050 - GORDONS CREEK AT PINE STREET AT HATTIESBURG, MS. (LAT 31 19 30 LONG 089 17 30)

OCT., 1973

|       |      |     |     |     |      |     |
|-------|------|-----|-----|-----|------|-----|
| 16... | 0955 | 1.9 | 105 | 6.8 | 23.0 | 5.7 |
| 16... | 1250 | 1.9 | 98  | 6.9 | 23.5 | 6.9 |
| 16... | 1635 | 13  | 85  | 6.7 | 21.5 | 7.1 |
| 17... | 0900 | 4.2 | 68  | 6.7 | 18.0 | 8.1 |
| 17... | 1245 | 3.7 | 54  | 6.5 | 19.5 | 8.7 |
| 17... | 1315 | 3.2 | 70  | 6.8 | 20.0 | 8.5 |
| 17... | 1910 | 2.7 | 85  | 6.7 | 19.5 | 8.3 |
| 17... | 2350 | 2.7 | 90  | 6.8 | 18.0 | 8.0 |
| 18... | 0325 | 2.4 | 100 | 6.7 | 17.0 | 7.9 |
| 18... | 0700 | 1.9 | 110 | 6.8 | 15.5 | 7.8 |
| 18... | 1110 | 1.9 | 128 | 6.6 | 17.0 | 8.8 |
| 18... | 1400 | 1.8 | 130 | 6.8 | 19.5 | 8.6 |
| 18... | 1420 | 1.7 | 130 | 6.6 | 18.5 | 7.9 |

02473080 - LEAF RIVER AT RIVER AVENUE AT HATTIESBURG, MISS. (LAT 31 19 36 LONG 089 16 02)

OCT., 1973

|       |      |      |    |     |      |     |
|-------|------|------|----|-----|------|-----|
| 16... | 0935 | 865  | 62 | 6.6 | 23.5 | 6.2 |
| 16... | 1350 | 875  | 59 | 6.8 | 23.5 | 6.1 |
| 17... | 1000 | 1000 | 60 | 6.6 | 21.0 | 7.2 |
| 17... | 1330 | 1050 | 70 | 6.7 | 22.0 | 7.3 |
| 17... | 1610 | 1180 | 60 | 6.9 | 22.5 | 7.5 |
| 17... | 1955 | 1230 | 57 | 6.7 | 22.0 | 7.6 |
| 18... | 0045 | 1250 | 59 | 6.9 | 21.0 | 7.6 |
| 18... | 0400 | 1260 | 58 | 6.9 | 20.0 | 7.6 |
| 18... | 0740 | 1300 | 56 | 6.8 | 20.0 | 7.9 |
| 18... | 1140 | 1310 | 57 | 6.3 | 21.0 | 8.9 |
| 18... | 1445 | 1300 | -- | --  | 21.5 | 8.2 |
| 18... | 1710 | 1290 | 65 | 6.8 | 21.5 | 7.9 |

## ANALYSES OF SAMPLES COLLECTED DURING SHORT-TERM INTENSIVE STUDIES

## HATTIESBURG AREA.--Continued

| DATE                                                                          | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SPECIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------------------------------------------------------------------------------|------|------------------------------------------|-------------------------------------------------------|---------------|-----------------------------|------------------------------------|
| 02473120 - BURKETTS CREEK AT HATTIESBURG, MISS. (LAT 31 18 26 LONG 089 16 44) |      |                                          |                                                       |               |                             |                                    |
| OCT., 1973                                                                    |      |                                          |                                                       |               |                             |                                    |
| 16...                                                                         | 0915 | 6.8                                      | 120                                                   | 9.3           | 22.5                        | 5.5                                |
| 16...                                                                         | 1335 | 8.2                                      | 80                                                    | 8.4           | 22.5                        | 5.6                                |
| 17...                                                                         | 0925 | 16                                       | 54                                                    | 8.6           | 18.5                        | 7.4                                |
| 17...                                                                         | 1305 | 17                                       | 80                                                    | 9.7           | 19.5                        | 7.8                                |
| 17...                                                                         | 1550 | 16                                       | 77                                                    | 9.6           | 20.0                        | 7.9                                |
| 17...                                                                         | 1935 | 14                                       | 95                                                    | 10.0          | 19.5                        | 7.7                                |
| 18...                                                                         | 0005 | 14                                       | 160                                                   | 10.4          | 18.0                        | 7.6                                |
| 18...                                                                         | 0340 | 12                                       | 74                                                    | 6.8           | 17.0                        | 7.5                                |
| 18...                                                                         | 0720 | 11                                       | 75                                                    | 5.3           | 16.5                        | 7.8                                |
| 18...                                                                         | 1125 | 10                                       | 64                                                    | 6.6           | 17.0                        | 7.9                                |
| 18...                                                                         | 1420 | 10                                       | 110                                                   | 8.7           | 18.0                        | 7.9                                |
| 18...                                                                         | 1650 | 10                                       | 175                                                   | 10.0          | 18.5                        | 7.2                                |
| 02473150 - LOTTS CREEK NEAR PETAL, MISS. (LAT 31 18 38 LONG 089 14 14)        |      |                                          |                                                       |               |                             |                                    |
| OCT., 1973                                                                    |      |                                          |                                                       |               |                             |                                    |
| 16...                                                                         | 0950 | 6.0                                      | 29                                                    | 6.8           | 21.0                        | 7.8                                |
| 16...                                                                         | 1405 | 6.0                                      | 29                                                    | 6.8           | 21.5                        | 8.0                                |
| 17...                                                                         | 0745 | 6.0                                      | 34                                                    | 6.1           | 18.0                        | 9.1                                |
| 17...                                                                         | 1110 | 6.0                                      | 36                                                    | 6.2           | 18.0                        | 9.0                                |
| 17...                                                                         | 1535 | 7.6                                      | 38                                                    | 6.7           | 19.5                        | 9.0                                |
| 17...                                                                         | 2035 | 4.6                                      | 32                                                    | 6.3           | 18.5                        | 9.0                                |
| 18...                                                                         | 0045 | 3.5                                      | 30                                                    | 6.5           | 17.0                        | 9.4                                |
| 18...                                                                         | 0350 | 2.7                                      | 30                                                    | 6.3           | 16.3                        | 9.0                                |
| 18...                                                                         | 0715 | 1.9                                      | 32                                                    | 6.3           | 15.5                        | 9.0                                |
| 18...                                                                         | 1045 | 1.6                                      | 32                                                    | --            | 16.5                        | 9.1                                |
| 18...                                                                         | 1340 | 1.5                                      | 34                                                    | 6.3           | 17.5                        | 9.1                                |
| 18...                                                                         | 1520 | 1.3                                      | 40                                                    | 6.3           | 19.0                        | 8.8                                |
| 02473230 - PRIESTS CREEK NEAR MCCALLUM, MISS. (LAT 31 16 10 LONG 089 14 32)   |      |                                          |                                                       |               |                             |                                    |
| OCT., 1973                                                                    |      |                                          |                                                       |               |                             |                                    |
| 16...                                                                         | 0645 | 6.8                                      | 28                                                    | 6.0           | 21.5                        | 7.8                                |
| 16...                                                                         | 1000 | 6.8                                      | 32                                                    | 5.7           | 21.7                        | 8.1                                |
| 16...                                                                         | 1335 | 8.2                                      | 32                                                    | 6.2           | 22.0                        | 8.2                                |
| 16...                                                                         | 1630 | 14                                       | 34                                                    | 6.2           | 21.0                        | 8.2                                |
| 17...                                                                         | 0700 | 16                                       | 30                                                    | 6.1           | 19.0                        | 9.3                                |
| 17...                                                                         | 1030 | 17                                       | 28                                                    | 6.3           | 18.8                        | 9.1                                |
| 17...                                                                         | 1405 | 16                                       | 29                                                    | 6.3           | 20.5                        | 8.7                                |
| 17...                                                                         | 1940 | 14                                       | 30                                                    | 6.3           | 19.0                        | 8.6                                |
| 18...                                                                         | 0012 | 14                                       | 24                                                    | 6.5           | 18.3                        | 9.0                                |
| 18...                                                                         | 0315 | 14                                       | 31                                                    | 6.3           | 17.5                        | 8.7                                |
| 18...                                                                         | 0635 | 10                                       | 30                                                    | 6.5           | 17.0                        | 9.0                                |
| 18...                                                                         | 1005 | 10                                       | 31                                                    | 6.3           | 16.5                        | 10.0                               |
| 18...                                                                         | 1320 | 10                                       | 32                                                    | 6.3           | 20.0                        | 8.5                                |
| 18...                                                                         | 1500 | 10                                       | 32                                                    | 6.0           | 20.5                        | 8.2                                |
| 02473260 - LEAF RIVER NEAR PALMER, MISS. (LAT 31 15 40 LONG 089 13 35)        |      |                                          |                                                       |               |                             |                                    |
| OCT., 1973                                                                    |      |                                          |                                                       |               |                             |                                    |
| 16...                                                                         | 0700 | 930                                      | 66                                                    | 6.4           | 23.8                        | 5.6                                |
| 16...                                                                         | 1015 | 930                                      | 66                                                    | 6.2           | 23.5                        | 5.6                                |
| 16...                                                                         | 1348 | 930                                      | 68                                                    | 6.3           | 24.0                        | 6.0                                |
| 16...                                                                         | 1650 | 930                                      | 68                                                    | 6.2           | 23.0                        | 6.3                                |
| 17...                                                                         | 0715 | 1080                                     | 85                                                    | 6.2           | 21.0                        | 6.5                                |
| 17...                                                                         | 1050 | 1100                                     | 60                                                    | 6.4           | 21.0                        | 6.9                                |
| 17...                                                                         | 1425 | 1270                                     | 78                                                    | 6.4           | 23.0                        | 7.0                                |
| 17...                                                                         | 2000 | 1330                                     | 60                                                    | 6.6           | 22.0                        | 7.2                                |
| 18...                                                                         | 0030 | 1350                                     | 56                                                    | 6.5           | 21.0                        | 7.1                                |
| 18...                                                                         | 0330 | 1350                                     | 56                                                    | 6.4           | 21.0                        | 6.7                                |
| 18...                                                                         | 0645 | 1400                                     | 60                                                    | 6.5           | 20.5                        | 7.1                                |
| 18...                                                                         | 1025 | 1420                                     | 60                                                    | 6.5           | 21.0                        | 8.2                                |
| 18...                                                                         | 1330 | 1440                                     | 56                                                    | 6.5           | 23.0                        | 7.5                                |
| 18...                                                                         | 1505 | 1440                                     | 57                                                    | 6.6           | 23.2                        | 7.0                                |



## HATTIESBURG AREA.--Continued

| DATE                                                                        | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-----------------------------------------------------------------------------|------|-----------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|
| 02473308 - MYERS CREEK NEAR MCCALLUM, MISS. (LAT 31 15 05 LONG 089 13 52)   |      |                                               |                                                            |               |                             |                                    |
| OCT., 1973                                                                  |      |                                               |                                                            |               |                             |                                    |
| 16...                                                                       | 0850 | 3.5                                           | 26                                                         | 6.5           | 21.3                        | 8.4                                |
| 16...                                                                       | 1225 | 3.6                                           | 26                                                         | 6.5           | 21.6                        | 8.6                                |
| 16...                                                                       | 1540 | 4.4                                           | 24                                                         | 6.6           | 21.5                        | 8.3                                |
| 16...                                                                       | 1850 | 5.2                                           | 24                                                         | 6.4           | 21.0                        | 8.3                                |
| 17...                                                                       | 0940 | 10                                            | 26                                                         | 6.0           | 18.5                        | 9.6                                |
| 17...                                                                       | 1310 | 8.2                                           | 26                                                         | 6.3           | 19.0                        | 8.8                                |
| 17...                                                                       | 1805 | 5.5                                           | 28                                                         | 6.5           | 19.0                        | 9.1                                |
| 17...                                                                       | 2300 | 4.0                                           | 28                                                         | 6.4           | 18.0                        | 9.1                                |
| 18...                                                                       | 0225 | 3.5                                           | 28                                                         | 6.7           | 17.0                        | 9.1                                |
| 18...                                                                       | 0530 | 3.5                                           | 28                                                         | 6.4           | 17.0                        | 9.0                                |
| 18...                                                                       | 0915 | 3.5                                           | 28                                                         | 7.0           | 16.5                        | 10.2                               |
| 18...                                                                       | 1240 | 2.9                                           | 25                                                         | 6.5           | 17.5                        | 9.3                                |
| 18...                                                                       | 1450 | 2.8                                           | 26                                                         | 6.3           | 18.0                        | 8.8                                |
| 18...                                                                       | 1635 | 2.8                                           | 26                                                         | 6.5           | 18.0                        | --                                 |
| 02473312 - CARTERS CREEK NEAR MCCALLUM, MISS. (LAT 31 16 11 LONG 089 12 32) |      |                                               |                                                            |               |                             |                                    |
| OCT., 1973                                                                  |      |                                               |                                                            |               |                             |                                    |
| 16...                                                                       | 0713 | .27                                           | 32                                                         | 5.4           | 20.0                        | 2.8                                |
| 16...                                                                       | 1025 | .27                                           | 32                                                         | 5.4           | 20.0                        | 3.5                                |
| 16...                                                                       | 1405 | .30                                           | 32                                                         | 5.5           | 20.5                        | 3.8                                |
| 16...                                                                       | 1705 | .30                                           | 32                                                         | 5.5           | 20.0                        | 3.9                                |
| 17...                                                                       | 0800 | .27                                           | 26                                                         | 5.6           | 18.3                        | 3.9                                |
| 17...                                                                       | 1130 | .30                                           | 33                                                         | 5.6           | 19.0                        | 4.5                                |
| 17...                                                                       | 1555 | .27                                           | 31                                                         | 5.6           | 19.5                        | 4.5                                |
| 17...                                                                       | 2055 | .25                                           | 31                                                         | 5.8           | 19.0                        | 3.8                                |
| 18...                                                                       | 0059 | .25                                           | 32                                                         | 6.2           | 18.8                        | 4.0                                |
| 18...                                                                       | 0410 | .25                                           | 31                                                         | 5.7           | 18.0                        | 3.9                                |
| 18...                                                                       | 0730 | .27                                           | 32                                                         | 5.8           | 18.0                        | 3.8                                |
| 18...                                                                       | 1105 | .30                                           | 31                                                         | 6.2           | 19.5                        | 4.4                                |
| 18...                                                                       | 1350 | .30                                           | 32                                                         | 5.6           | 20.7                        | 4.5                                |
| 18...                                                                       | 1535 | .30                                           | 34                                                         | 5.7           | 21.0                        | 4.4                                |
| 02473317 - JACOBS CREEK AT MCCALLUM, MISS. (LAT 31 14 32 LONG 089 13 06)    |      |                                               |                                                            |               |                             |                                    |
| OCT., 1973                                                                  |      |                                               |                                                            |               |                             |                                    |
| 16...                                                                       | 0837 | 3.3                                           | 32                                                         | 6.7           | 21.3                        | 8.1                                |
| 16...                                                                       | 1210 | 3.3                                           | 31                                                         | 6.7           | 21.5                        | 8.2                                |
| 16...                                                                       | 1525 | 3.3                                           | 31                                                         | 6.6           | 21.5                        | 8.2                                |
| 16...                                                                       | 1835 | 3.6                                           | 32                                                         | 6.5           | 21.0                        | 8.1                                |
| 17...                                                                       | 0930 | 4.2                                           | 32                                                         | 6.1           | 18.3                        | 8.8                                |
| 17...                                                                       | 1245 | 3.7                                           | 31                                                         | 6.2           | 19.0                        | 8.6                                |
| 17...                                                                       | 1755 | 2.5                                           | 31                                                         | 6.1           | 19.0                        | 8.9                                |
| 17...                                                                       | 2250 | 1.7                                           | 30                                                         | 6.1           | 18.0                        | 8.9                                |
| 18...                                                                       | 0215 | 1.7                                           | 32                                                         | 6.2           | 17.5                        | 8.9                                |
| 18...                                                                       | 0520 | 1.7                                           | 31                                                         | 6.0           | 17.0                        | 8.8                                |
| 18...                                                                       | 0900 | 3.1                                           | 30                                                         | 6.1           | 16.0                        | 9.8                                |
| 18...                                                                       | 1225 | 3.1                                           | 30                                                         | 6.9           | 17.0                        | 9.3                                |
| 18...                                                                       | 1445 | 3.1                                           | 31                                                         | 6.5           | 18.2                        | 9.0                                |
| 18...                                                                       | 1630 | 3.1                                           | 30                                                         | 6.5           | 18.0                        | --                                 |
| 02473323 - WELDY CREEK AT MCCALLUM, MISS. (LAT 31 13 53 LONG 089 11 44)     |      |                                               |                                                            |               |                             |                                    |
| OCT., 1973                                                                  |      |                                               |                                                            |               |                             |                                    |
| 16...                                                                       | 0828 | 4.0                                           | 75                                                         | 6.8           | 21.0                        | 8.8                                |
| 16...                                                                       | 1150 | 4.0                                           | 72                                                         | 6.7           | 21.3                        | 9.0                                |
| 16...                                                                       | 1505 | 4.0                                           | 72                                                         | 6.5           | 21.5                        | 8.6                                |
| 16...                                                                       | 1825 | 4.3                                           | 68                                                         | 6.3           | 20.5                        | 8.8                                |
| 17...                                                                       | 0920 | 4.9                                           | 74                                                         | 6.2           | 17.5                        | 9.3                                |
| 17...                                                                       | 1230 | 4.4                                           | 75                                                         | 6.7           | 18.0                        | 9.0                                |
| 17...                                                                       | 1745 | 3.2                                           | 72                                                         | 6.2           | 18.0                        | 9.2                                |
| 17...                                                                       | 2230 | 2.5                                           | 68                                                         | 6.3           | 18.0                        | 9.4                                |
| 18...                                                                       | 0200 | 2.5                                           | 75                                                         | 6.2           | 17.0                        | 9.3                                |
| 18...                                                                       | 0410 | 2.5                                           | 75                                                         | 6.1           | 16.0                        | 9.0                                |
| 18...                                                                       | 0850 | 3.9                                           | 75                                                         | 6.3           | 15.0                        | 10.6                               |
| 18...                                                                       | 1215 | 3.9                                           | 75                                                         | 6.7           | 16.5                        | 9.7                                |
| 18...                                                                       | 1435 | 3.9                                           | 80                                                         | 6.8           | 17.0                        | 9.4                                |
| 18...                                                                       | 1620 | 3.9                                           | 74                                                         | 6.8           | 17.0                        | --                                 |

## ANALYSES OF SAMPLES COLLECTED DURING SHORT-TERM INTENSIVE STUDIES

## HATTIESBURG AREA.--Continued

| DATE                                                                      | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------------------------------------------------------------------|------|-----------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|
| 02473327 - JAKES CREEK NEAR MCCALLUM, MISS. (LAT 31 14 42 LONG 089 10 34) |      |                                               |                                                            |               |                             |                                    |
| OCT., 1973                                                                |      |                                               |                                                            |               |                             |                                    |
| 16...                                                                     | 0727 | .39                                           | 42                                                         | 5.8           | 21.5                        | 3.4                                |
| 16...                                                                     | 1040 | .39                                           | 42                                                         | 5.7           | 21.4                        | 3.8                                |
| 16...                                                                     | 1420 | .46                                           | 39                                                         | 5.7           | 21.8                        | 3.9                                |
| 16...                                                                     | 1515 | .48                                           | 39                                                         | 5.7           | 20.0                        | 4.1                                |
| 17...                                                                     | 0815 | .54                                           | 40                                                         | 6.0           | 18.5                        | 4.7                                |
| 17...                                                                     | 1140 | .68                                           | 42                                                         | 6.1           | 18.3                        | 4.8                                |
| 17...                                                                     | 1610 | .76                                           | 40                                                         | 6.0           | 19.0                        | 5.5                                |
| 17...                                                                     | 2115 | .90                                           | 32                                                         | 6.2           | 18.0                        | 6.5                                |
| 18...                                                                     | 0110 | .90                                           | 36                                                         | 6.4           | 17.5                        | 6.8                                |
| 18...                                                                     | 0420 | .90                                           | 32                                                         | 6.2           | 17.0                        | 6.5                                |
| 18...                                                                     | 0740 | 1.0                                           | 38                                                         | 6.2           | 16.0                        | 7.3                                |
| 18...                                                                     | 1120 | .90                                           | 39                                                         | 6.2           | 17.0                        | 6.7                                |
| 18...                                                                     | 1355 | .96                                           | 38                                                         | 6.2           | 17.8                        | 6.8                                |
| 18...                                                                     | 1600 | .96                                           | 38                                                         | 5.9           | 18.0                        | 6.8                                |
| 02473345 - REESE CREEK NEAR MCCALLUM, MISS. (LAT 31 14 41 LONG 089 09 10) |      |                                               |                                                            |               |                             |                                    |
| OCT., 1973                                                                |      |                                               |                                                            |               |                             |                                    |
| 16...                                                                     | 0740 | 2.1                                           | 36                                                         | 6.2           | 22.0                        | 6.1                                |
| 16...                                                                     | 1100 | 2.1                                           | 36                                                         | 6.1           | 22.0                        | 6.1                                |
| 16...                                                                     | 1430 | 2.1                                           | 38                                                         | 6.0           | 22.0                        | 6.1                                |
| 16...                                                                     | 1730 | 2.1                                           | 38                                                         | 6.0           | 21.0                        | 6.3                                |
| 17...                                                                     | 0830 | 3.2                                           | 36                                                         | 6.0           | 19.0                        | 7.1                                |
| 17...                                                                     | 1140 | 4.8                                           | 38                                                         | 6.2           | 19.0                        | 7.4                                |
| 17...                                                                     | 1620 | 7.0                                           | 40                                                         | 6.1           | 19.0                        | 7.8                                |
| 17...                                                                     | 2125 | 7.0                                           | 38                                                         | 6.2           | 19.0                        | 7.9                                |
| 18...                                                                     | 0120 | 7.0                                           | 42                                                         | 6.3           | 18.2                        | 7.9                                |
| 18...                                                                     | 0425 | 7.0                                           | 40                                                         | 6.2           | 18.0                        | 7.6                                |
| 18...                                                                     | 0850 | 6.0                                           | 40                                                         | 6.2           | 17.0                        | 8.1                                |
| 18...                                                                     | 1130 | 5.5                                           | 40                                                         | 6.0           | 18.0                        | 8.2                                |
| 18...                                                                     | 1405 | 5.2                                           | 40                                                         | 6.3           | 18.2                        | 7.8                                |
| 18...                                                                     | 1650 | 5.2                                           | 41                                                         | 6.3           | 18.5                        | 7.6                                |
| 02473360 - LEAF R. NR. MAHNEU, MISS. (LAT 31 13 35 LONG 089 05 15)        |      |                                               |                                                            |               |                             |                                    |
| OCT., 1973                                                                |      |                                               |                                                            |               |                             |                                    |
| 16...                                                                     | 0752 | 1310                                          | 80                                                         | 6.3           | 23.5                        | 6.6                                |
| 16...                                                                     | 1115 | 1310                                          | 74                                                         | 6.3           | 23.5                        | 6.8                                |
| 16...                                                                     | 1440 | 1310                                          | 70                                                         | 6.2           | 23.8                        | 6.4                                |
| 16...                                                                     | 1750 | 1310                                          | 68                                                         | 6.2           | 23.2                        | 6.7                                |
| 17...                                                                     | 0850 | 1465                                          | 65                                                         | 6.2           | 21.0                        | 6.7                                |
| 17...                                                                     | 1210 | 1630                                          | 68                                                         | 6.4           | 21.0                        | 6.8                                |
| 17...                                                                     | 1655 | 1830                                          | 65                                                         | 6.2           | 22.5                        | 7.5                                |
| 17...                                                                     | 2150 | 1870                                          | 65                                                         | 6.3           | 21.5                        | 7.6                                |
| 18...                                                                     | 0135 | 1900                                          | 68                                                         | 6.3           | 21.0                        | 7.3                                |
| 18...                                                                     | 0440 | 1930                                          | 66                                                         | 6.3           | 21.0                        | 7.4                                |
| 18...                                                                     | 0810 | 1950                                          | 58                                                         | 6.3           | 20.5                        | 7.8                                |
| 18...                                                                     | 1145 | 2000                                          | 58                                                         | 6.4           | 21.5                        | 7.6                                |
| 18...                                                                     | 1410 | 2000                                          | 60                                                         | 6.8           | 22.5                        | 7.6                                |
| 18...                                                                     | 1600 | 2000                                          | 65                                                         | 6.2           | 22.5                        | 7.5                                |

## HATTIESBURG AREA.--Continued

| DATE | TIME | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) | IMME-<br>DIATE<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) |
|------|------|-------------------------------------------|-------------------------------------------|----------------------------------------------------------|-------------------------------------------|-----------------------------------------------------|------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|
|------|------|-------------------------------------------|-------------------------------------------|----------------------------------------------------------|-------------------------------------------|-----------------------------------------------------|------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|

## 02472375 - LEAF RIVER AB BOWIE RIVER AT HATTIESBURG, MISS. (LAT 31 20 40 LONG 089 16 46)

|            |      |     |     |     |     |     |        |      |      |
|------------|------|-----|-----|-----|-----|-----|--------|------|------|
| OCT., 1973 |      |     |     |     |     |     |        |      |      |
| 17...      | 0820 | .11 | .26 | .37 | .05 | .7  | 13000  | 1800 | 910  |
| 17...      | 1125 | .11 | .32 | .43 | .11 | .5  | 18000  | 1500 | 1500 |
| 17...      | 1500 | .07 | .34 | .41 | .05 | .7  | 60000  | 350  | 1100 |
| 17...      | 1745 | .09 | .40 | .49 | .10 | 1.9 | --     | --   | --   |
| 17...      | 2320 | .07 | .22 | .29 | .05 | .9  | --     | --   | --   |
| 18...      | 0250 | .23 | .03 | .26 | .10 | --  | 120000 | 1500 | 180  |
| 18...      | 0630 | .06 | .17 | .23 | .05 | 1.6 | --     | --   | --   |

## 02472500 - BOWIE CREEK NEAR HATTIESBURG, MISS (LAT 31 25 32 LONG 089 24 53)

|            |      |     |     |     |     |     |       |       |      |
|------------|------|-----|-----|-----|-----|-----|-------|-------|------|
| OCT., 1973 |      |     |     |     |     |     |       |       |      |
| 17...      | 0730 | .07 | .17 | .24 | .04 | --  | 23000 | 82000 | 880  |
| 17...      | 1215 | .07 | .18 | .25 | .10 | 1.3 | 6000  | 280   | 1100 |
| 17...      | 1735 | .11 | .17 | .28 | .06 | --  | 3800  | 360   | 750  |
| 17...      | 2120 | .08 | .02 | .10 | .04 | .5  | 3200  | 860   | 980  |
| 18...      | 0015 | .06 | .18 | .24 | .04 | .9  | 11000 | 600   | 780  |
| 18...      | 0330 | .10 | .51 | .61 | .09 | .8  | 4400  | 340   | 450  |
| 18...      | 0730 | .15 | .16 | .31 | .08 | --  | 12000 | 740   | 380  |

## 02472860 - OKATOMA CREEK AT LUX, MISS. (LAT 31 26 35 LONG 089 24 23)

|            |      |     |     |     |     |     |        |       |      |
|------------|------|-----|-----|-----|-----|-----|--------|-------|------|
| OCT., 1973 |      |     |     |     |     |     |        |       |      |
| 17...      | 0830 | .12 | .25 | .37 | .11 | --  | 7500   | 580   | 190  |
| 17...      | 1230 | .12 | .34 | .46 | .11 | --  | 12000  | 860   | 1400 |
| 17...      | 1750 | .15 | .82 | .97 | .17 | 1.4 | 10000  | 720   | 2500 |
| 17...      | 2135 | .39 | .50 | .89 | .26 | 1.2 | 50000  | 1600  | 1600 |
| 18...      | 0030 | .32 | .04 | .36 | .22 | 2.2 | 100000 | >2000 | 1400 |
| 18...      | 0345 | .31 | .42 | .73 | .19 | 1.6 | 50000  | 700   | 1000 |
| 18...      | 0750 | .20 | .43 | .63 | .15 | 2.2 | 14000  | 340   | --   |
| 18...      | 1510 | --  | --  | --  | --  | --  | --     | --    | 5000 |

## 02472880 - BOWIE RIVER NEAR GLENDALE, MISS. (LAT 31 23 44 LONG 089 21 56)

|            |      |     |     |     |     |     |       |       |      |
|------------|------|-----|-----|-----|-----|-----|-------|-------|------|
| OCT., 1973 |      |     |     |     |     |     |       |       |      |
| 17...      | 0850 | .08 | .37 | .45 | .13 | .0  | 25000 | 1100  | 1600 |
| 17...      | 1255 | .11 | .46 | .57 | .12 | --  | 30000 | 1100  | --   |
| 17...      | 1815 | .10 | .16 | .26 | .11 | .9  | 12000 | >2000 | 340  |
| 17...      | 2200 | .13 | .00 | .13 | .12 | --  | 25000 | >2000 | 490  |
| 18...      | 0110 | .10 | .00 | .10 | .12 | --  | 35000 | >2000 | 750  |
| 18...      | 0410 | .32 | .31 | .63 | .18 | 1.6 | --    | --    | --   |
| 18...      | 0800 | .18 | .34 | .52 | .13 | 1.4 | 10000 | 1300  | 250  |

## 02472940 - BOWIE RIVER NEAR HATTIESBURG, MISS. (LAT 31 22 03 LONG 089 20 11)

|            |      |     |     |     |     |     |       |      |     |
|------------|------|-----|-----|-----|-----|-----|-------|------|-----|
| OCT., 1973 |      |     |     |     |     |     |       |      |     |
| 17...      | 0950 | .07 | .19 | .26 | .10 | --  | 15000 | 100  | 350 |
| 17...      | 1335 | .10 | .22 | .32 | .07 | --  | 16000 | 740  | 420 |
| 17...      | 1855 | .14 | .26 | .40 | .10 | .9  | 20000 | 550  | 360 |
| 17...      | 2240 | .06 | .31 | .37 | .09 | .9  | 17000 | 460  | 120 |
| 18...      | 0145 | .08 | .09 | .17 | .08 | 1.1 | 40000 | 780  | 780 |
| 18...      | 0450 | .10 | .22 | .32 | .12 | --  | 25000 | 620  | 420 |
| 18...      | 0825 | .37 | .17 | .54 | .22 | 1.6 | 200   | 1200 | 380 |

## 02472945 - MIXONS CREEK NEAR GLENDALE, MISS. (LAT 31 21 21 LONG 089 20 21)

|            |      |     |     |     |     |     |       |       |      |
|------------|------|-----|-----|-----|-----|-----|-------|-------|------|
| OCT., 1973 |      |     |     |     |     |     |       |       |      |
| 17...      | 1020 | 1.5 | 1.1 | 2.6 | .93 | 4.7 | --    | --    | --   |
| 17...      | 1400 | .83 | .47 | 1.3 | .50 | 2.9 | 20000 | >2000 | >500 |
| 17...      | 1915 | .61 | .49 | 1.1 | .32 | 2.5 | --    | --    | --   |
| 17...      | 2300 | .48 | .38 | .86 | .31 | --  | --    | --    | --   |
| 18...      | 0205 | .45 | .36 | .81 | .27 | 1.8 | 50000 | >2000 | >500 |
| 18...      | 0510 | .32 | .37 | .69 | .25 | --  | --    | --    | --   |
| 18...      | 0840 | .32 | .68 | 1.0 | .24 | 4.8 | --    | --    | --   |

## ANALYSES OF SAMPLES COLLECTED DURING SHORT-TERM INTENSIVE STUDIES

## HATTIESBURG AREA.--Continued

| DATE                                                                                      | TIME | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) | IMME-<br>DIATE<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) |
|-------------------------------------------------------------------------------------------|------|-------------------------------------------|-------------------------------------------|----------------------------------------------------------|-------------------------------------------|-----------------------------------------------------|------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|
| 02472980 - ROWIE RIVER AT HATTIESBURG, MISS. (LAT 31 20 58 LONG 089 18 18)                |      |                                           |                                           |                                                          |                                           |                                                     |                                                            |                                                   |                                                       |
| OCT., 1973                                                                                |      |                                           |                                           |                                                          |                                           |                                                     |                                                            |                                                   |                                                       |
| 17...                                                                                     | 1430 | --                                        | --                                        | --                                                       | --                                        | 1.4                                                 | --                                                         | --                                                | --                                                    |
| 17...                                                                                     | 1750 | .33                                       | .67                                       | 1.0                                                      | .15                                       | 1.1                                                 | 25000                                                      | 280                                               | 690                                                   |
| 17...                                                                                     | 2205 | .14                                       | .38                                       | .52                                                      | .08                                       | 1.8                                                 | 20000                                                      | 460                                               | 240                                                   |
| 18...                                                                                     | 0230 | .11                                       | .48                                       | .59                                                      | .12                                       | --                                                  | 15000                                                      | 1000                                              | --                                                    |
| 18...                                                                                     | 0520 | .17                                       | 1.0                                       | 1.2                                                      | .15                                       | --                                                  | 40000                                                      | 410                                               | 520                                                   |
| 18...                                                                                     | 0930 | .11                                       | .29                                       | .40                                                      | .10                                       | .8                                                  | --                                                         | --                                                | --                                                    |
| 18...                                                                                     | 1345 | .13                                       | .20                                       | .33                                                      | .14                                       | --                                                  | --                                                         | --                                                | --                                                    |
| 02472995 - ROWIE RIVER TRIBUTARY AT HATTIESBURG, MISS. (LAT 31 20 37 LONG 089 17 46)      |      |                                           |                                           |                                                          |                                           |                                                     |                                                            |                                                   |                                                       |
| OCT., 1973                                                                                |      |                                           |                                           |                                                          |                                           |                                                     |                                                            |                                                   |                                                       |
| 17...                                                                                     | 0715 | 19                                        | 14                                        | 33                                                       | .49                                       | 41                                                  | --                                                         | >5000                                             | --                                                    |
| 17...                                                                                     | 1055 | 12                                        | 3.0                                       | 15                                                       | .63                                       | 40                                                  | 50000                                                      | >5000                                             | 280                                                   |
| 17...                                                                                     | 1430 | 26                                        | .00                                       | 25                                                       | 1.1                                       | 46                                                  | 200000                                                     | >5000                                             | >500                                                  |
| 17...                                                                                     | 1815 | 19                                        | 1.0                                       | 20                                                       | .95                                       | --                                                  | --                                                         | --                                                | --                                                    |
| 17...                                                                                     | 2250 | 32                                        | 8.0                                       | 40                                                       | 1.0                                       | 28                                                  | 150000                                                     | --                                                | 140                                                   |
| 18...                                                                                     | 0220 | 33                                        | .00                                       | 33                                                       | .92                                       | 28                                                  | 120000                                                     | >5000                                             | 130                                                   |
| 18...                                                                                     | 0605 | 38                                        | 3.0                                       | 41                                                       | .98                                       | 30                                                  | --                                                         | --                                                | --                                                    |
| 02472999 - ROWIE RIVER AT MOUTH AT HATTIESBURG, MISS. (LAT 31 20 38 LONG 089 16 50)       |      |                                           |                                           |                                                          |                                           |                                                     |                                                            |                                                   |                                                       |
| OCT., 1973                                                                                |      |                                           |                                           |                                                          |                                           |                                                     |                                                            |                                                   |                                                       |
| 17...                                                                                     | 0940 | .48                                       | .62                                       | 1.1                                                      | .19                                       | 3.9                                                 | 21000                                                      | >5000                                             | 220                                                   |
| 17...                                                                                     | 1130 | .34                                       | .41                                       | .75                                                      | .34                                       | 6.3                                                 | 27000                                                      | >5000                                             | 240                                                   |
| 17...                                                                                     | 1510 | .57                                       | .39                                       | .96                                                      | .35                                       | 6.3                                                 | 45000                                                      | >5000                                             | 180                                                   |
| 17...                                                                                     | 1805 | .55                                       | .85                                       | 1.4                                                      | .38                                       | 7.1                                                 | 30000                                                      | >5000                                             | 240                                                   |
| 17...                                                                                     | 2340 | .60                                       | .24                                       | .84                                                      | .20                                       | 4.4                                                 | --                                                         | --                                                | --                                                    |
| 18...                                                                                     | 0310 | .63                                       | .37                                       | 1.0                                                      | .23                                       | 3.8                                                 | 100000                                                     | >5000                                             | 220                                                   |
| 18...                                                                                     | 0650 | .73                                       | .47                                       | 1.2                                                      | .24                                       | 2.9                                                 | --                                                         | --                                                | --                                                    |
| 02473050 - GORRONS CREEK AT FINE STREET AT HATTIESBURG, MS. (LAT 31 19 30 LONG 089 17 30) |      |                                           |                                           |                                                          |                                           |                                                     |                                                            |                                                   |                                                       |
| OCT., 1973                                                                                |      |                                           |                                           |                                                          |                                           |                                                     |                                                            |                                                   |                                                       |
| 17...                                                                                     | 0900 | .29                                       | .65                                       | .94                                                      | .29                                       | 3.7                                                 | >50000                                                     | >14000                                            | >500                                                  |
| 17...                                                                                     | 1245 | .35                                       | .62                                       | .97                                                      | .18                                       | 3.7                                                 | >50000                                                     | >14000                                            | >500                                                  |
| 17...                                                                                     | 1315 | .38                                       | .62                                       | 1.0                                                      | .22                                       | 3.6                                                 | --                                                         | --                                                | --                                                    |
| 17...                                                                                     | 1910 | .39                                       | .11                                       | .50                                                      | .23                                       | 4.1                                                 | >50000                                                     | >14000                                            | >500                                                  |
| 17...                                                                                     | 2350 | .66                                       | .44                                       | 1.1                                                      | .23                                       | 3.0                                                 | --                                                         | --                                                | --                                                    |
| 18...                                                                                     | 0325 | 1.1                                       | .40                                       | 1.5                                                      | .37                                       | --                                                  | >50000                                                     | >14000                                            | >500                                                  |
| 18...                                                                                     | 0700 | 1.3                                       | .50                                       | 1.8                                                      | .76                                       | 3.3                                                 | --                                                         | --                                                | --                                                    |
| 02473080 - LEAF RIVER AT RIVER AVENUE AT HATTIESBURG, MISS. (LAT 31 19 36 LONG 089 16 02) |      |                                           |                                           |                                                          |                                           |                                                     |                                                            |                                                   |                                                       |
| OCT., 1973                                                                                |      |                                           |                                           |                                                          |                                           |                                                     |                                                            |                                                   |                                                       |
| 17...                                                                                     | 1000 | .27                                       | .35                                       | .62                                                      | .10                                       | 2.3                                                 | 300                                                        | >14000                                            | 390                                                   |
| 17...                                                                                     | 1330 | .17                                       | .36                                       | .53                                                      | .19                                       | 2.8                                                 | --                                                         | --                                                | --                                                    |
| 17...                                                                                     | 1610 | .32                                       | .88                                       | 1.2                                                      | .19                                       | 10                                                  | 180000                                                     | >14000                                            | 460                                                   |
| 17...                                                                                     | 1955 | .34                                       | .56                                       | .90                                                      | .22                                       | 5.0                                                 | 40000                                                      | >14000                                            | --                                                    |
| 18...                                                                                     | 0445 | .30                                       | 1.5                                       | 1.8                                                      | .15                                       | 3.5                                                 | 80000                                                      | >14000                                            | 200                                                   |
| 18...                                                                                     | 0400 | .35                                       | .36                                       | .71                                                      | .12                                       | 2.1                                                 | --                                                         | --                                                | --                                                    |
| 18...                                                                                     | 0740 | .39                                       | .46                                       | .85                                                      | .14                                       | 2.0                                                 | --                                                         | --                                                | --                                                    |
| 02473120 - BURKETTS CREEK AT HATTIESBURG, MISS. (LAT 31 18 26 LONG 089 16 44)             |      |                                           |                                           |                                                          |                                           |                                                     |                                                            |                                                   |                                                       |
| OCT., 1973                                                                                |      |                                           |                                           |                                                          |                                           |                                                     |                                                            |                                                   |                                                       |
| 17...                                                                                     | 0925 | .08                                       | .28                                       | .36                                                      | .17                                       | 1.7                                                 | 25000                                                      | 480                                               | 1120                                                  |
| 17...                                                                                     | 1305 | .08                                       | .27                                       | .35                                                      | .11                                       | 1.4                                                 | --                                                         | --                                                | --                                                    |
| 17...                                                                                     | 1550 | .10                                       | .31                                       | .41                                                      | .19                                       | 1.6                                                 | 15000                                                      | 1400                                              | 1320                                                  |
| 17...                                                                                     | 1935 | .09                                       | .32                                       | .41                                                      | .17                                       | 2.8                                                 | 70000                                                      | 270                                               | 1100                                                  |
| 18...                                                                                     | 0005 | .17                                       | .33                                       | .50                                                      | .17                                       | 3.6                                                 | --                                                         | --                                                | --                                                    |
| 18...                                                                                     | 0340 | .11                                       | .39                                       | .50                                                      | .24                                       | 3.0                                                 | 80000                                                      | >5000                                             | 700                                                   |
| 18...                                                                                     | 0720 | .11                                       | .40                                       | .51                                                      | .26                                       | --                                                  | --                                                         | --                                                | --                                                    |
| 02473260 - LEAF RIVER NEAR PALMER, MISS. (LAT 31 15 40 LONG 089 13 35)                    |      |                                           |                                           |                                                          |                                           |                                                     |                                                            |                                                   |                                                       |
| OCT., 1973                                                                                |      |                                           |                                           |                                                          |                                           |                                                     |                                                            |                                                   |                                                       |
| 17...                                                                                     | 0715 | .27                                       | .54                                       | .81                                                      | .19                                       | 2.5                                                 | 100000                                                     | H5000                                             | 340                                                   |
| 17...                                                                                     | 1050 | .28                                       | .45                                       | .73                                                      | .13                                       | 2.5                                                 | --                                                         | --                                                | --                                                    |
| 17...                                                                                     | 1425 | .29                                       | .49                                       | .78                                                      | .23                                       | 2.9                                                 | 55000                                                      | H5000                                             | 180                                                   |
| 17...                                                                                     | 2000 | .20                                       | .90                                       | 1.1                                                      | .23                                       | 1.8                                                 | --                                                         | --                                                | --                                                    |
| 18...                                                                                     | 0030 | .29                                       | .19                                       | .48                                                      | .21                                       | 1.8                                                 | 180000                                                     | H5000                                             | 140                                                   |
| 18...                                                                                     | 0330 | .23                                       | .03                                       | .26                                                      | .20                                       | 2.1                                                 | --                                                         | --                                                | --                                                    |
| 18...                                                                                     | 0645 | .30                                       | .70                                       | 1.0                                                      | .21                                       | 1.9                                                 | 58000                                                      | H5000                                             | 80                                                    |
| 02473360 - LEAF R. NR. MAHNEU, MISS. (LAT 31 13 35 LONG 089 05 15)                        |      |                                           |                                           |                                                          |                                           |                                                     |                                                            |                                                   |                                                       |
| OCT., 1973                                                                                |      |                                           |                                           |                                                          |                                           |                                                     |                                                            |                                                   |                                                       |
| 17...                                                                                     | 0850 | .29                                       | .44                                       | .73                                                      | .18                                       | 1.9                                                 | 150000                                                     | 1200                                              | 260                                                   |
| 17...                                                                                     | 1210 | .38                                       | .43                                       | .81                                                      | .26                                       | 3.6                                                 | 150000                                                     | >5000                                             | 360                                                   |
| 17...                                                                                     | 1655 | .30                                       | .39                                       | .69                                                      | .23                                       | 2.8                                                 | 250000                                                     | >5000                                             | 130                                                   |
| 17...                                                                                     | 2150 | .20                                       | .44                                       | .64                                                      | .12                                       | 1.7                                                 | --                                                         | --                                                | --                                                    |
| 18...                                                                                     | 0135 | .23                                       | .73                                       | .96                                                      | .16                                       | --                                                  | 150000                                                     | 9600                                              | 140                                                   |
| 18...                                                                                     | 0440 | .20                                       | .02                                       | .22                                                      | .15                                       | 1.1                                                 | --                                                         | --                                                | --                                                    |
| 18...                                                                                     | 0810 | .20                                       | .53                                       | .73                                                      | .22                                       | 1.2                                                 | 60000                                                      | 5000                                              | 140                                                   |

## GULFPORT AREA

An intensive study of the quality of surface waters in the Gulfport area was conducted June 18-20, 1974. Samples were obtained at high and low tides at 21 sites on Bayou Bernard, Brickyard Bayou, and their tributaries. Listed below are site locations and results of laboratory analyses and field determinations of water quality during the study.

| DATE                                                                                         | TIME | DEPTH<br>(FT) | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICHO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|----------------------------------------------------------------------------------------------|------|---------------|-----------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|
| 02481198 - BAYOU BERNARD AT LANDON, MISS. (LAT 30 26 24 LONG 089 05 59.01)                   |      |               |                                               |                                                            |               |                             |                                    |
| JUNE, 1974                                                                                   |      |               |                                               |                                                            |               |                             |                                    |
| 18...                                                                                        | 1200 | --            | 1.4                                           | 70                                                         | 6.1           | 25.5                        | 4.4                                |
| 18...                                                                                        | 2015 | --            | --                                            | 36                                                         | 5.2           | 22.0                        | 8.0                                |
| 02481207 - FLAT BRANCH AT LANDON, MISS. (LAT 30 26 25 LONG 089 05 46.01)                     |      |               |                                               |                                                            |               |                             |                                    |
| JUNE, 1974                                                                                   |      |               |                                               |                                                            |               |                             |                                    |
| 18...                                                                                        | 0930 | --            | 1.8                                           | 160                                                        | 7.0           | 27.0                        | 9.0                                |
| 18...                                                                                        | 2030 | --            | --                                            | 40                                                         | 5.5           | 22.0                        | 7.7                                |
| 02481209 - BAYOU BERNARD SE OF LANDON, MISS. (LAT 30 26 03 LONG 089 05 32.01)                |      |               |                                               |                                                            |               |                             |                                    |
| JUNE, 1974                                                                                   |      |               |                                               |                                                            |               |                             |                                    |
| 18...                                                                                        | 1050 | --            | E.00                                          | 180                                                        | 6.5           | 27.5                        | 8.3                                |
| 18...                                                                                        | 1051 | 1.0           | --                                            | 170                                                        | --            | 27.5                        | 8.3                                |
| 18...                                                                                        | 1052 | 5.0           | --                                            | 120                                                        | --            | 26.5                        | 5.1                                |
| 02481212 - BAYOU BERNARD N OF GULFPORT, MISS. (LAT 30 25 46 LONG 089 04 36.01)               |      |               |                                               |                                                            |               |                             |                                    |
| JUNE, 1974                                                                                   |      |               |                                               |                                                            |               |                             |                                    |
| 18...                                                                                        | 1040 | --            | E.00                                          | 340                                                        | 6.5           | 29.0                        | 6.5                                |
| 18...                                                                                        | 1041 | 1.0           | --                                            | 340                                                        | --            | 29.0                        | 6.5                                |
| 18...                                                                                        | 1042 | 5.0           | --                                            | 340                                                        | --            | 29.0                        | 5.9                                |
| 18...                                                                                        | 1043 | 10            | --                                            | 260                                                        | --            | 28.0                        | 2.9                                |
| 18...                                                                                        | 1044 | 13            | --                                            | 220                                                        | --            | 27.0                        | 2.0                                |
| 18...                                                                                        | 2131 | --            | --                                            | 55                                                         | 5.0           | 23.0                        | 6.9                                |
| 18...                                                                                        | 2133 | 5.0           | --                                            | 50                                                         | --            | 23.0                        | 6.9                                |
| 18...                                                                                        | 2134 | 9.0           | --                                            | 56                                                         | --            | 23.0                        | 6.3                                |
| 02481250 - TURKEY CREEK NEAR GULFPORT, MISS. (LAT 30 24 43 LONG 089 05 41.01)                |      |               |                                               |                                                            |               |                             |                                    |
| JUNE, 1974                                                                                   |      |               |                                               |                                                            |               |                             |                                    |
| 18...                                                                                        | 1115 | --            | 1.1                                           | 240                                                        | 7.2           | 26.5                        | 8.5                                |
| 18...                                                                                        | 2115 | --            | --                                            | 130                                                        | 6.4           | 24.0                        | 6.0                                |
| 02481252 - TURKEY CREEK AT CREOSOTE RU NEAR GULFPORT, MISS. (LAT 30 25 27 LONG 089 04 14.01) |      |               |                                               |                                                            |               |                             |                                    |
| JUNE, 1974                                                                                   |      |               |                                               |                                                            |               |                             |                                    |
| 18...                                                                                        | 1130 | --            | --                                            | 350                                                        | 6.8           | 28.0                        | 5.6                                |
| 18...                                                                                        | 2045 | --            | E200                                          | 130                                                        | 6.9           | 25.5                        | 7.4                                |
| 02481253 - BAYOU BERNARD NE OF GULFPORT, MISS. (LAT 30 25 30 LONG 089 03 44.01)              |      |               |                                               |                                                            |               |                             |                                    |
| JUNE, 1974                                                                                   |      |               |                                               |                                                            |               |                             |                                    |
| 18...                                                                                        | 1030 | --            | E.00                                          | 550                                                        | 6.6           | 29.0                        | 5.7                                |
| 18...                                                                                        | 1031 | 1.0           | --                                            | 525                                                        | --            | 29.0                        | 5.7                                |
| 18...                                                                                        | 1032 | 5.0           | --                                            | 475                                                        | --            | 29.0                        | 5.4                                |
| 18...                                                                                        | 1033 | 10            | --                                            | 400                                                        | --            | 29.0                        | 4.8                                |
| 18...                                                                                        | 1034 | 15            | --                                            | 325                                                        | --            | 28.0                        | 1.8                                |
| 18...                                                                                        | 1035 | 19            | --                                            | 325                                                        | --            | 28.0                        | 4                                  |
| 18...                                                                                        | 2120 | --            | E500                                          | 320                                                        | 6.6           | 28.0                        | 5.1                                |
| 18...                                                                                        | 2121 | 1.0           | --                                            | 300                                                        | --            | 28.0                        | 5.1                                |
| 18...                                                                                        | 2122 | 5.0           | --                                            | 300                                                        | --            | 28.0                        | 5.3                                |
| 18...                                                                                        | 2123 | 10            | --                                            | 280                                                        | --            | 28.0                        | 5.3                                |
| 18...                                                                                        | 2124 | 15            | --                                            | 240                                                        | --            | 27.0                        | 5.1                                |
| 02481254 - BAYOU BERNARD SHIP CHANNEL SE OF LANDON, MISS. (LAT 30 25 35 LONG 089 02 57.01)   |      |               |                                               |                                                            |               |                             |                                    |
| JUNE, 1974                                                                                   |      |               |                                               |                                                            |               |                             |                                    |
| 18...                                                                                        | 1025 | --            | E300                                          | 900                                                        | 6.6           | 32.0                        | 5.5                                |
| 18...                                                                                        | 1026 | 1.0           | --                                            | 1350                                                       | --            | 32.0                        | 5.5                                |
| 18...                                                                                        | 1027 | 5.0           | --                                            | 650                                                        | --            | 30.0                        | 4.6                                |
| 18...                                                                                        | 1028 | 10            | --                                            | 380                                                        | --            | 29.0                        | 3.3                                |
| 18...                                                                                        | 1029 | 15            | --                                            | 360                                                        | --            | 28.0                        | 2.0                                |
| 18...                                                                                        | 2115 | --            | --                                            | 450                                                        | 6.6           | 28.5                        | 4.7                                |
| 18...                                                                                        | 2116 | 1.0           | --                                            | 450                                                        | --            | 28.5                        | 4.7                                |
| 18...                                                                                        | 2117 | 5.0           | --                                            | 450                                                        | --            | 28.0                        | 4.6                                |
| 18...                                                                                        | 2118 | 10            | --                                            | 425                                                        | --            | 28.0                        | 4.4                                |
| 18...                                                                                        | 2119 | 14            | --                                            | 400                                                        | --            | 28.0                        | 4.2                                |

## ANALYSES OF SAMPLES COLLECTED DURING SHORT-TERM INTENSIVE STUDIES

## GULFPORT AREA.--Continued

| DATE                                                                                         | TIME | DEPTH<br>(FT) | INSTAN-<br>TANEOUS<br>OIS-<br>CHARGE<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICHO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | OIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|----------------------------------------------------------------------------------------------|------|---------------|-----------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|
| 02481255 - BAYOU BERNARD SHIP CHANNEL NE OF GULFPORT, MISS. (LAT 30 25 34 LONG 089 02 19.01) |      |               |                                               |                                                            |               |                             |                                    |
| JUNE, 1974                                                                                   |      |               |                                               |                                                            |               |                             |                                    |
| 18...                                                                                        | 1020 | --            | E200                                          | 900                                                        | 6.6           | 32.0                        | 5.9                                |
| 18...                                                                                        | 1021 | 1.0           | --                                            | 1300                                                       | --            | 32.0                        | 5.9                                |
| 18...                                                                                        | 1022 | 5.0           | --                                            | 1000                                                       | --            | 31.0                        | 5.1                                |
| 18...                                                                                        | 1023 | 10            | --                                            | 625                                                        | --            | 30.0                        | 4.4                                |
| 18...                                                                                        | 1024 | 15            | --                                            | 400                                                        | --            | 29.0                        | 2.3                                |
| 18...                                                                                        | 2110 | --            | E1200                                         | 425                                                        | 6.5           | 28.0                        | 4.0                                |
| 18...                                                                                        | 2111 | 1.0           | --                                            | 450                                                        | --            | 28.0                        | 4.0                                |
| 18...                                                                                        | 2112 | 5.0           | --                                            | 450                                                        | --            | 28.0                        | 4.1                                |
| 18...                                                                                        | 2113 | 10            | --                                            | 450                                                        | --            | 28.0                        | 4.1                                |
| 18...                                                                                        | 2114 | 14            | --                                            | 400                                                        | --            | 28.0                        | 4.0                                |
| 02481256 - BAYOU BERNARD SHIP CHANNEL NEAR LORAIN, MISS. (LAT 30 25 19 LONG 089 01 23.01)    |      |               |                                               |                                                            |               |                             |                                    |
| JUNE, 1974                                                                                   |      |               |                                               |                                                            |               |                             |                                    |
| 18...                                                                                        | 1010 | --            | E.00                                          | 900                                                        | 6.7           | 32.0                        | 6.0                                |
| 18...                                                                                        | 1011 | 1.0           | --                                            | 1300                                                       | --            | 32.0                        | 6.0                                |
| 18...                                                                                        | 1012 | 5.0           | --                                            | 1250                                                       | --            | 32.0                        | 5.8                                |
| 18...                                                                                        | 1013 | 10            | --                                            | 1400                                                       | --            | 31.0                        | 5.6                                |
| 18...                                                                                        | 1014 | 14            | --                                            | 1700                                                       | --            | 31.0                        | 5.6                                |
| 18...                                                                                        | 2105 | --            | E1300                                         | 450                                                        | 6.4           | 28.0                        | 4.7                                |
| 18...                                                                                        | 2106 | 1.0           | --                                            | 450                                                        | --            | 28.0                        | 4.7                                |
| 18...                                                                                        | 2107 | 5.0           | --                                            | 450                                                        | --            | 28.0                        | 4.7                                |
| 18...                                                                                        | 2108 | 10            | --                                            | 450                                                        | --            | 28.0                        | 4.7                                |
| 02481257 - BAYOU BERNARD SHIP CHANNEL SE OF LORAIN, MISS. (LAT 30 25 05 LONG 089 00 28.01)   |      |               |                                               |                                                            |               |                             |                                    |
| JUNE, 1974                                                                                   |      |               |                                               |                                                            |               |                             |                                    |
| 18...                                                                                        | 1005 | --            | E.00                                          | 1100                                                       | 6.7           | 33.0                        | 6.0                                |
| 18...                                                                                        | 1006 | 1.0           | --                                            | 1650                                                       | --            | 33.0                        | 6.0                                |
| 18...                                                                                        | 1007 | 5.0           | --                                            | 1700                                                       | --            | 32.0                        | 5.8                                |
| 18...                                                                                        | 1008 | 10            | --                                            | 2000                                                       | --            | 30.0                        | 5.9                                |
| 18...                                                                                        | 1009 | 14            | --                                            | 2000                                                       | --            | 30.0                        | 5.9                                |
| 18...                                                                                        | 2055 | --            | E1400                                         | 500                                                        | 6.4           | 28.5                        | 4.6                                |
| 18...                                                                                        | 2056 | 1.0           | --                                            | 550                                                        | --            | 28.5                        | 4.6                                |
| 18...                                                                                        | 2057 | 5.0           | --                                            | 550                                                        | --            | 28.5                        | 4.7                                |
| 18...                                                                                        | 2058 | 10            | --                                            | 550                                                        | --            | 28.5                        | 4.7                                |
| 02481258 - BAYOU BERNARD (OLD CHANNEL) SE OF LANDON, MISS. (LAT 30 25 28 LONG 089 02 52.01)  |      |               |                                               |                                                            |               |                             |                                    |
| JUNE, 1974                                                                                   |      |               |                                               |                                                            |               |                             |                                    |
| 18...                                                                                        | 0950 | --            | E-70                                          | 700                                                        | 6.8           | 30.0                        | 5.1                                |
| 18...                                                                                        | 0951 | 1.0           | --                                            | 750                                                        | --            | 30.0                        | 6.5                                |
| 18...                                                                                        | 0952 | 5.0           | --                                            | 700                                                        | --            | 30.0                        | 6.1                                |
| 18...                                                                                        | 2040 | --            | E600                                          | 425                                                        | 6.5           | 28.0                        | 2.8                                |
| 18...                                                                                        | 2041 | 1.0           | --                                            | 400                                                        | --            | 28.0                        | .0                                 |
| 18...                                                                                        | 2042 | 5.0           | --                                            | 400                                                        | --            | 28.0                        | 2.8                                |
| 18...                                                                                        | 2043 | 10            | --                                            | 400                                                        | --            | 28.0                        | 2.8                                |
| 02481259 - BAYOU BERNARD (OLD CHANNEL) NE OF GULFPORT, MISS (LAT 30 25 11 LONG 089 02 28.01) |      |               |                                               |                                                            |               |                             |                                    |
| JUNE, 1974                                                                                   |      |               |                                               |                                                            |               |                             |                                    |
| 18...                                                                                        | 0940 | --            | E-100                                         | --                                                         | --            | 29.0                        | --                                 |
| 18...                                                                                        | 0941 | 1.0           | --                                            | 750                                                        | --            | 29.0                        | 5.1                                |
| 18...                                                                                        | 0942 | 5.0           | --                                            | 750                                                        | --            | 29.0                        | 4.9                                |
| 18...                                                                                        | 0943 | 10            | --                                            | 700                                                        | --            | 29.0                        | 4.4                                |
| 18...                                                                                        | 0944 | 14            | --                                            | 650                                                        | --            | 28.5                        | 1.3                                |
| 18...                                                                                        | 2030 | --            | E650                                          | 500                                                        | 6.6           | 28.0                        | 3.3                                |
| 18...                                                                                        | 2031 | 1.0           | --                                            | 600                                                        | --            | 28.0                        | 3.3                                |
| 18...                                                                                        | 2032 | 5.0           | --                                            | 600                                                        | --            | 28.0                        | 3.1                                |
| 18...                                                                                        | 2033 | 1.0           | --                                            | 600                                                        | --            | 28.0                        | 2.1                                |
| 02481260 - BAYOU BERNARD (OLD CHANNEL) NEAR HANDSBORO, MISS (LAT 30 24 40 LONG 089 02 21.01) |      |               |                                               |                                                            |               |                             |                                    |
| JUNE, 1974                                                                                   |      |               |                                               |                                                            |               |                             |                                    |
| 18...                                                                                        | 0935 | --            | E-200                                         | 760                                                        | 6.8           | 29.0                        | 4.5                                |
| 18...                                                                                        | 0936 | 1.0           | --                                            | 1050                                                       | --            | 29.0                        | 4.5                                |
| 18...                                                                                        | 0937 | 5.0           | --                                            | 1050                                                       | --            | 29.0                        | 4.5                                |
| 18...                                                                                        | 0938 | 10            | --                                            | 1050                                                       | --            | 29.0                        | 4.4                                |
| 18...                                                                                        | 2020 | --            | E700                                          | 700                                                        | 6.8           | 28.5                        | 4.1                                |
| 18...                                                                                        | 2021 | 1.0           | --                                            | 775                                                        | --            | 28.5                        | 4.1                                |
| 18...                                                                                        | 2022 | 5.0           | --                                            | 750                                                        | --            | 28.5                        | 4.1                                |
| 18...                                                                                        | 2023 | 10            | --                                            | 750                                                        | --            | 28.5                        | 4.1                                |



## GULFPORT AREA.-Continued

| DATE                                                                                         | TIME | DEPTH<br>(FT) | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|----------------------------------------------------------------------------------------------|------|---------------|-----------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|
| 02481262 - BRICKYARD BAYOU AT GULFPORT, MISS. (LAT 30 22 56 LONG 089 05 30.01)               |      |               |                                               |                                                            |               |                             |                                    |
| JUNE, 1974                                                                                   |      |               |                                               |                                                            |               |                             |                                    |
| 18...                                                                                        | 1100 | --            | 1.1                                           | 360                                                        | 6.7           | 26.5                        | .3                                 |
| 18...                                                                                        | 2130 | --            | --                                            | 118                                                        | 6.8           | 24.0                        | 6.0                                |
| 02481263 - BRICKYARD BAYOU NE OF GULFPORT, MISS. (LAT 30 23 20 LONG 089 04 10.01)            |      |               |                                               |                                                            |               |                             |                                    |
| JUNE, 1974                                                                                   |      |               |                                               |                                                            |               |                             |                                    |
| 18...                                                                                        | 1045 | --            | --                                            | 350                                                        | 7.2           | 28.0                        | .7                                 |
| 19...                                                                                        | 2145 | --            | --                                            | 155                                                        | 7.0           | 24.0                        | 4.4                                |
| 02481264 - BRICKYARD BAYOU NEAR MISSISSIPPI CITY, MISS. (LAT 30 23 56 LONG 089 03 08.01)     |      |               |                                               |                                                            |               |                             |                                    |
| JUNE, 1974                                                                                   |      |               |                                               |                                                            |               |                             |                                    |
| 18...                                                                                        | 1030 | --            | --                                            | 600                                                        | 7.2           | 28.5                        | 2.1                                |
| 18...                                                                                        | 2200 | --            | E50                                           | 240                                                        | 6.9           | 25.0                        | .4                                 |
| 02481265 - BRICKYARD BAYOU AT MISSISSIPPI CITY, MISS. (LAT 30 24 11 LONG 089 02 13.01)       |      |               |                                               |                                                            |               |                             |                                    |
| JUNE, 1974                                                                                   |      |               |                                               |                                                            |               |                             |                                    |
| 18...                                                                                        | 1015 | --            | --                                            | 850                                                        | 6.8           | 28.0                        | 5.4                                |
| 18...                                                                                        | 2215 | --            | E100                                          | 425                                                        | 7.2           | 27.0                        | 2.2                                |
| 02481266 - BAYOU BERNARD (OLD CHANNEL) AT HANDSBORO, MISS. (LAT 30 24 18 LONG 089 01 50.01)  |      |               |                                               |                                                            |               |                             |                                    |
| JUNE, 1974                                                                                   |      |               |                                               |                                                            |               |                             |                                    |
| 18...                                                                                        | 0930 | --            | E-200                                         | 900                                                        | 6.7           | 30.0                        | 5.4                                |
| 18...                                                                                        | 0931 | 1.0           | --                                            | 1250                                                       | --            | 30.0                        | 5.4                                |
| 18...                                                                                        | 0932 | 5.0           | --                                            | 1250                                                       | --            | 30.0                        | 5.3                                |
| 18...                                                                                        | 0933 | 10            | --                                            | 1250                                                       | --            | 30.0                        | 5.2                                |
| 18...                                                                                        | 2015 | --            | E850                                          | 720                                                        | 6.8           | 29.0                        | 4.6                                |
| 18...                                                                                        | 2016 | 1.0           | --                                            | 975                                                        | --            | 29.0                        | 4.6                                |
| 18...                                                                                        | 2017 | 5.0           | --                                            | 975                                                        | --            | 29.0                        | 4.7                                |
| 02481267 - BAYOU BERNARD (OLD CHANNEL) E OF HANDSBORO, MISS (LAT 30 24 34 LONG 089 01 03.01) |      |               |                                               |                                                            |               |                             |                                    |
| JUNE, 1974                                                                                   |      |               |                                               |                                                            |               |                             |                                    |
| 18...                                                                                        | 0920 | --            | E-250                                         | 1200                                                       | 6.6           | 31.0                        | 5.8                                |
| 18...                                                                                        | 0921 | 1.0           | --                                            | 1800                                                       | --            | 31.0                        | 5.8                                |
| 18...                                                                                        | 0922 | 5.0           | --                                            | 1800                                                       | --            | 31.0                        | 5.7                                |
| 18...                                                                                        | 0923 | 10            | --                                            | 2000                                                       | --            | 31.0                        | 5.6                                |
| 18...                                                                                        | 0924 | 15            | --                                            | 2000                                                       | --            | 31.0                        | 5.6                                |
| 18...                                                                                        | 2010 | --            | E900                                          | 800                                                        | 6.8           | 29.0                        | 5.3                                |
| 18...                                                                                        | 2011 | 1.0           | --                                            | 1200                                                       | --            | 29.0                        | 5.3                                |
| 18...                                                                                        | 2012 | 5.0           | --                                            | 1200                                                       | --            | 29.0                        | 5.1                                |
| 18...                                                                                        | 2013 | 10            | --                                            | 1200                                                       | --            | 29.0                        | 5.1                                |
| 18...                                                                                        | 2014 | 14            | --                                            | 1200                                                       | --            | 29.0                        | 5.1                                |
| 02481268 - BAYOU BERNARD (OLD CHANNEL) NEAR DE BUYS (LAT 30 24 54 LONG 089 00 14.01)         |      |               |                                               |                                                            |               |                             |                                    |
| JUNE, 1974                                                                                   |      |               |                                               |                                                            |               |                             |                                    |
| 18...                                                                                        | 0910 | --            | E-250                                         | 1100                                                       | 6.6           | 33.0                        | 6.0                                |
| 18...                                                                                        | 0911 | 1.0           | --                                            | 1600                                                       | --            | 33.0                        | 6.0                                |
| 18...                                                                                        | 0912 | 5.0           | --                                            | 2200                                                       | --            | 30.5                        | 5.9                                |
| 18...                                                                                        | 0913 | 10            | --                                            | 2500                                                       | --            | 30.0                        | 6.0                                |
| 18...                                                                                        | 0914 | 15            | --                                            | 2800                                                       | --            | 30.0                        | 6.0                                |
| 18...                                                                                        | 2000 | --            | E900                                          | 920                                                        | 6.7           | 29.0                        | 5.3                                |
| 18...                                                                                        | 2001 | 1.0           | --                                            | 1300                                                       | --            | 29.0                        | 5.3                                |
| 18...                                                                                        | 2002 | 5.0           | --                                            | 1300                                                       | --            | 29.0                        | 5.4                                |
| 18...                                                                                        | 2003 | 10            | --                                            | 1300                                                       | --            | 29.0                        | 5.4                                |
| 18...                                                                                        | 2004 | 15            | --                                            | 1300                                                       | --            | 29.0                        | 5.4                                |

## ANALYSES OF SAMPLES COLLECTED DURING SHORT-TERM INTENSIVE STUDIES

## GULFPORT AREA.--Continued

| DATE                                                                                         | TIME | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL-<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>ORTHO<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) |
|----------------------------------------------------------------------------------------------|------|------------------------------------------------------|-------------------------------------------|-------------------------------------------|-----------------------------------------------------------|-----------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------|-----------------------------------------------------|
| 02481198 - BAYOU BERNARD AT LANDON, MISS. (LAT 30 26 24 LONG 089 05 59.01)                   |      |                                                      |                                           |                                           |                                                           |                                         |                                           |                                           |                                                    |                                                     |
| JUNE, 1974                                                                                   |      |                                                      |                                           |                                           |                                                           |                                         |                                           |                                           |                                                    |                                                     |
| 18...                                                                                        | 1200 | .04                                                  | .09                                       | .58                                       | .67                                                       | .71                                     | 3.1                                       | .04                                       | .04                                                | .8                                                  |
| 18...                                                                                        | 2015 | .28                                                  | .08                                       | 1.1                                       | 1.2                                                       | 1.5                                     | 6.6                                       | .02                                       | .04                                                | 4.0                                                 |
| 02481207 - FLAT BRANCH AT LANDON, MISS. (LAT 30 26 25 LONG 089 05 46.01)                     |      |                                                      |                                           |                                           |                                                           |                                         |                                           |                                           |                                                    |                                                     |
| JUNE, 1974                                                                                   |      |                                                      |                                           |                                           |                                                           |                                         |                                           |                                           |                                                    |                                                     |
| 18...                                                                                        | 0930 | .04                                                  | .12                                       | 3.9                                       | 4.0                                                       | 4.0                                     | 18                                        | 2.7                                       | 2.7                                                | 8.5                                                 |
| 18...                                                                                        | 2030 | .23                                                  | .09                                       | 1.0                                       | 1.1                                                       | 1.3                                     | 5.9                                       | .05                                       | .08                                                | 4.2                                                 |
| 02481209 - BAYOU BERNARD SE OF LANDON, MISS. (LAT 30 26 03 LONG 089 05 32.01)                |      |                                                      |                                           |                                           |                                                           |                                         |                                           |                                           |                                                    |                                                     |
| JUNE, 1974                                                                                   |      |                                                      |                                           |                                           |                                                           |                                         |                                           |                                           |                                                    |                                                     |
| 18...                                                                                        | 1050 | .00                                                  | .09                                       | 1.0                                       | 1.1                                                       | 1.1                                     | 4.9                                       | .34                                       | .30                                                | 6.3                                                 |
| 02481212 - BAYOU BERNARD N OF GULFPORT, MISS. (LAT 30 25 46 LONG 089 04 36.01)               |      |                                                      |                                           |                                           |                                                           |                                         |                                           |                                           |                                                    |                                                     |
| JUNE, 1974                                                                                   |      |                                                      |                                           |                                           |                                                           |                                         |                                           |                                           |                                                    |                                                     |
| 18...                                                                                        | 1040 | .17                                                  | .53                                       | .87                                       | 1.4                                                       | 1.6                                     | 7.0                                       | .32                                       | .28                                                | 5.5                                                 |
| 18...                                                                                        | 2131 | .30                                                  | .10                                       | .86                                       | .96                                                       | 1.3                                     | 5.6                                       | .19                                       | .08                                                | 5.6                                                 |
| 02481250 - TURKEY CREEK NEAR GULFPORT, MISS. (LAT 30 24 43 LONG 089 05 41.01)                |      |                                                      |                                           |                                           |                                                           |                                         |                                           |                                           |                                                    |                                                     |
| JUNE, 1974                                                                                   |      |                                                      |                                           |                                           |                                                           |                                         |                                           |                                           |                                                    |                                                     |
| 18...                                                                                        | 1115 | .00                                                  | .24                                       | 3.0                                       | 3.2                                                       | 3.2                                     | 14                                        | 1.4                                       | 1.2                                                | 7.9                                                 |
| 18...                                                                                        | 2115 | .39                                                  | .34                                       | 1.8                                       | 2.1                                                       | 2.5                                     | 11                                        | .55                                       | .53                                                | 5.6                                                 |
| 02481252 - TURKEY CREEK AT CREOSOTE RD NEAR GULFPORT, MISS. (LAT 30 25 27 LONG 089 04 14.01) |      |                                                      |                                           |                                           |                                                           |                                         |                                           |                                           |                                                    |                                                     |
| JUNE, 1974                                                                                   |      |                                                      |                                           |                                           |                                                           |                                         |                                           |                                           |                                                    |                                                     |
| 18...                                                                                        | 1130 | .22                                                  | .56                                       | 1.2                                       | 1.8                                                       | 2.0                                     | 8.9                                       | .43                                       | .37                                                | 5.1                                                 |
| 18...                                                                                        | 2045 | .08                                                  | .10                                       | 2.2                                       | 2.3                                                       | 2.4                                     | 11                                        | .72                                       | .65                                                | 6.6                                                 |
| 02481253 - BAYOU BERNARD NE OF GULFPORT, MISS. (LAT 30 25 30 LONG 089 03 44.01)              |      |                                                      |                                           |                                           |                                                           |                                         |                                           |                                           |                                                    |                                                     |
| JUNE, 1974                                                                                   |      |                                                      |                                           |                                           |                                                           |                                         |                                           |                                           |                                                    |                                                     |
| 18...                                                                                        | 1030 | .47                                                  | .44                                       | .66                                       | 1.1                                                       | 1.6                                     | 7.0                                       | .23                                       | .20                                                | 4.5                                                 |
| 18...                                                                                        | 2120 | .15                                                  | .33                                       | .77                                       | 1.1                                                       | 1.3                                     | 5.5                                       | .26                                       | .25                                                | 2.0                                                 |
| 02481254 - BAYOU BERNARD SHIP CHANNEL SE OF LANDON, MISS. (LAT 30 25 35 LONG 089 02 57.01)   |      |                                                      |                                           |                                           |                                                           |                                         |                                           |                                           |                                                    |                                                     |
| JUNE, 1974                                                                                   |      |                                                      |                                           |                                           |                                                           |                                         |                                           |                                           |                                                    |                                                     |
| 18...                                                                                        | 1025 | .02                                                  | .15                                       | .55                                       | .70                                                       | .72                                     | 3.2                                       | .07                                       | .06                                                | 2.8                                                 |
| 18...                                                                                        | 2115 | .17                                                  | .53                                       | .57                                       | 1.1                                                       | 1.3                                     | 5.6                                       | .28                                       | .29                                                | 2.9                                                 |
| 02481255 - BAYOU BERNARD SHIP CHANNEL NE OF GULFPORT, MISS. (LAT 30 25 34 LONG 089 02 19.01) |      |                                                      |                                           |                                           |                                                           |                                         |                                           |                                           |                                                    |                                                     |
| JUNE, 1974                                                                                   |      |                                                      |                                           |                                           |                                                           |                                         |                                           |                                           |                                                    |                                                     |
| 18...                                                                                        | 1020 | .01                                                  | .13                                       | .44                                       | .57                                                       | .58                                     | 2.6                                       | .06                                       | .04                                                | 3.2                                                 |
| 18...                                                                                        | 2110 | .17                                                  | .60                                       | .50                                       | 1.1                                                       | 1.3                                     | 5.6                                       | .32                                       | .29                                                | 2.7                                                 |
| 02481256 - BAYOU BERNARD SHIP CHANNEL NEAR LORAIN, MISS. (LAT 30 25 19 LONG 089 01 23.01)    |      |                                                      |                                           |                                           |                                                           |                                         |                                           |                                           |                                                    |                                                     |
| JUNE, 1974                                                                                   |      |                                                      |                                           |                                           |                                                           |                                         |                                           |                                           |                                                    |                                                     |
| 18...                                                                                        | 1010 | .01                                                  | .03                                       | .56                                       | .59                                                       | .60                                     | 2.7                                       | .03                                       | .02                                                | 2.5                                                 |
| 18...                                                                                        | 2105 | .17                                                  | .51                                       | .44                                       | 1.0                                                       | 1.2                                     | 5.2                                       | .23                                       | .22                                                | --                                                  |
| 02481257 - BAYOU BERNARD SHIP CHANNEL SE OF LORAIN, MISS. (LAT 30 25 05 LONG 089 00 28.01)   |      |                                                      |                                           |                                           |                                                           |                                         |                                           |                                           |                                                    |                                                     |
| JUNE, 1974                                                                                   |      |                                                      |                                           |                                           |                                                           |                                         |                                           |                                           |                                                    |                                                     |
| 18...                                                                                        | 1005 | .00                                                  | .01                                       | .02                                       | .03                                                       | .03                                     | .13                                       | .03                                       | .02                                                | --                                                  |
| 18...                                                                                        | 2055 | .15                                                  | .45                                       | .55                                       | 1.0                                                       | 1.2                                     | 5.1                                       | .20                                       | .21                                                | --                                                  |
| 02481258 - BAYOU BERNARD (OLD CHANNEL) SE OF LANDON, MISS. (LAT 30 25 28 LONG 089 02 52.01)  |      |                                                      |                                           |                                           |                                                           |                                         |                                           |                                           |                                                    |                                                     |
| JUNE, 1974                                                                                   |      |                                                      |                                           |                                           |                                                           |                                         |                                           |                                           |                                                    |                                                     |
| 18...                                                                                        | 0950 | .03                                                  | .26                                       | .63                                       | .89                                                       | .92                                     | 4.1                                       | .11                                       | .09                                                | 4.1                                                 |
| 18...                                                                                        | 2040 | .12                                                  | .86                                       | .64                                       | 1.5                                                       | 1.6                                     | 7.2                                       | .33                                       | .33                                                | 2.4                                                 |

## GULFPORT AREA.--Continued

| DATE                                                                                         | TIME | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>ORTHO<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) |
|----------------------------------------------------------------------------------------------|------|------------------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------|-----------------------------------------------------|
| 02481259 - BAYOU BERNARD (OLD CHANNEL) NE OF GULFPORT, MISS (LAT 30 25 11 LONG 089 02 28.01) |      |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| JUNE, 1974                                                                                   |      |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| 18...                                                                                        | 0940 | .00                                                  | .13                                       | .68                                       | .81                                                      | .81                                     | 3.6                                       | .10                                       | .09                                                | 3.4                                                 |
| 18...                                                                                        | 2030 | .01                                                  | .25                                       | .58                                       | .83                                                      | .84                                     | 3.7                                       | .11                                       | .10                                                | 2.0                                                 |
| 02481260 - BAYOU BERNARD (OLD CHANNEL) NEAR HANDSBORO, MISS (LAT 30 24 40 LONG 089 02 21.01) |      |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| JUNE, 1974                                                                                   |      |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| 18...                                                                                        | 0935 | .00                                                  | .14                                       | .57                                       | .71                                                      | .71                                     | 3.1                                       | .09                                       | .08                                                | 3.0                                                 |
| 18...                                                                                        | 2020 | .00                                                  | .19                                       | .60                                       | .79                                                      | .79                                     | 3.5                                       | .11                                       | .10                                                | 2.6                                                 |
| 02481262 - BRICKYARD BAYOU AT GULFPORT, MISS. (LAT 30 22 56 LONG 089 05 30.01)               |      |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| JUNE, 1974                                                                                   |      |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| 18...                                                                                        | 1100 | .00                                                  | .87                                       | 3.3                                       | 4.2                                                      | 4.2                                     | 19                                        | .96                                       | .66                                                | 29                                                  |
| 18...                                                                                        | 2130 | 5.5                                                  | .23                                       | .87                                       | 1.1                                                      | 6.6                                     | 29                                        | .18                                       | .14                                                | 5.4                                                 |
| 02481263 - BRICKYARD BAYOU NE OF GULFPORT, MISS. (LAT 30 23 20 LONG 089 04 10.01)            |      |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| JUNE, 1974                                                                                   |      |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| 18...                                                                                        | 1045 | .02                                                  | .72                                       | .98                                       | 1.7                                                      | 1.7                                     | 7.6                                       | .41                                       | .36                                                | 7.8                                                 |
| 18...                                                                                        | 2145 | .43                                                  | .55                                       | 1.4                                       | 1.9                                                      | 2.3                                     | 10                                        | .18                                       | .16                                                | --                                                  |
| 02481264 - BRICKYARD BAYOU NEAR MISSISSIPPI CITY, MISS. (LAT 30 23 56 LONG 089 03 08.01)     |      |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| JUNE, 1974                                                                                   |      |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| 18...                                                                                        | 1030 | .03                                                  | .64                                       | 1.1                                       | 1.7                                                      | 1.7                                     | 7.7                                       | .33                                       | .30                                                | 7.8                                                 |
| 18...                                                                                        | 2200 | .17                                                  | 1.0                                       | 1.8                                       | 2.8                                                      | 3.0                                     | 13                                        | .45                                       | .32                                                | 19                                                  |
| 02481265 - BRICKYARD BAYOU AT MISSISSIPPI CITY, MISS. (LAT 30 24 11 LONG 089 02 13.01)       |      |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| JUNE, 1974                                                                                   |      |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| 18...                                                                                        | 1015 | .01                                                  | .07                                       | .93                                       | 1.0                                                      | 1.0                                     | 4.5                                       | .08                                       | .04                                                | 2.9                                                 |
| 18...                                                                                        | 2215 | .08                                                  | .59                                       | .91                                       | 1.5                                                      | 1.6                                     | 7.0                                       | .32                                       | .27                                                | 7.2                                                 |
| 02481266 - BAYOU BERNARD (OLD CHANNEL) AT HANDSBORO, MISS. (LAT 30 24 18 LONG 089 01 50.01)  |      |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| JUNE, 1974                                                                                   |      |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| 18...                                                                                        | 0930 | .01                                                  | .05                                       | .63                                       | .68                                                      | .69                                     | 3.1                                       | .06                                       | .05                                                | 3.1                                                 |
| 18...                                                                                        | 2015 | .01                                                  | .18                                       | .46                                       | .64                                                      | .65                                     | 2.9                                       | .12                                       | .10                                                | 3.6                                                 |
| 02481267 - BAYOU BERNARD (OLD CHANNEL) E OF HANDSBORO, MISS (LAT 30 24 34 LONG 089 01 03.01) |      |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| JUNE, 1974                                                                                   |      |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| 18...                                                                                        | 0920 | 15                                                   | .01                                       | .54                                       | .55                                                      | 16                                      | 69                                        | .03                                       | .02                                                | 2.6                                                 |
| 18...                                                                                        | 2010 | .01                                                  | .10                                       | .54                                       | .64                                                      | .65                                     | 2.9                                       | .07                                       | .06                                                | 3.0                                                 |
| 02481268 - BAYOU BERNARD (OLD CHANNEL) NEAR DE BUYS (LAT 30 24 54 LONG 089 00 14.01)         |      |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| JUNE, 1974                                                                                   |      |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| 18...                                                                                        | 0910 | .01                                                  | .00                                       | .53                                       | .53                                                      | .54                                     | 2.4                                       | .02                                       | .02                                                | 2.9                                                 |
| 18...                                                                                        | 2000 | .01                                                  | .09                                       | .59                                       | .68                                                      | .69                                     | 3.1                                       | .06                                       | .05                                                | 2.8                                                 |

## ANALYSES OF SAMPLES COLLECTED DURING SHORT-TERM INTENSIVE STUDIES

## GREENWOOD AREA

An intensive study of the quality of surface waters in the Greenwood area was conducted May 13-17, 1974. Samples were obtained at 16 sites on the Yazoo River and its tributaries. Listed below are site locations and results of laboratory analyses and field determinations of water quality during the study.

| DATE                                                                                      | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SP-<br>CIFIC<br>GRAV-<br>ITY<br>(G/CM <sup>3</sup> ) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | IMME-<br>DIATE<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) |
|-------------------------------------------------------------------------------------------|------|-----------------------------------------------|------------------------------------------------------|---------------|-----------------------------|------------------------------------|------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|
| 07241610 - TALLAHATCHIE R AB PEMBERTON CUI NR GREENWOOD, MS (LAT 33 31 58 LONG 090 14 17) |      |                                               |                                                      |               |                             |                                    |                                                            |                                                   |                                                       |
| MAY * 1974                                                                                |      |                                               |                                                      |               |                             |                                    |                                                            |                                                   |                                                       |
| 14...                                                                                     | 0815 | 7760                                          | 84                                                   | 6.7           | 21.0                        | 6.5                                | --                                                         | --                                                | --                                                    |
| 14...                                                                                     | 1025 | 7760                                          | 85                                                   | 7.0           | 21.5                        | 6.3                                | --                                                         | --                                                | --                                                    |
| 14...                                                                                     | 1315 | 7750                                          | 85                                                   | 6.9           | 22.2                        | 6.5                                | --                                                         | --                                                | --                                                    |
| 14...                                                                                     | 1550 | 7740                                          | 80                                                   | 6.8           | 22.6                        | 6.4                                | --                                                         | --                                                | --                                                    |
| 14...                                                                                     | 1815 | 7720                                          | 80                                                   | 6.9           | 22.2                        | 7.2                                | --                                                         | --                                                | --                                                    |
| 15...                                                                                     | 0650 | 7520                                          | 66                                                   | 6.9           | 22.2                        | 7.1                                | 830                                                        | 180                                               | 540                                                   |
| 15...                                                                                     | 0940 | 7480                                          | 81                                                   | 6.7           | 22.2                        | 7.6                                | --                                                         | --                                                | --                                                    |
| 15...                                                                                     | 1310 | 7420                                          | 65                                                   | 7.0           | 22.2                        | 6.5                                | 1100                                                       | 240                                               | 390                                                   |
| 15...                                                                                     | 1550 | 7410                                          | 70                                                   | 6.9           | 22.2                        | 6.6                                | --                                                         | --                                                | --                                                    |
| 15...                                                                                     | 1840 | 7420                                          | 80                                                   | 6.7           | 22.2                        | 6.5                                | 1000                                                       | 2800                                              | 120                                                   |
| 15...                                                                                     | 2115 | 7550                                          | 85                                                   | 7.3           | 22.1                        | 6.6                                | --                                                         | --                                                | --                                                    |
| 16...                                                                                     | 0035 | 7840                                          | 80                                                   | 6.7           | 22.2                        | 6.5                                | --                                                         | --                                                | --                                                    |
| 16...                                                                                     | 0420 | 8360                                          | 83                                                   | 6.9           | 22.2                        | 7.0                                | --                                                         | --                                                | --                                                    |
| 16...                                                                                     | 0620 | 8860                                          | 80                                                   | 6.8           | 23.0                        | 6.5                                | --                                                         | --                                                | --                                                    |
| 16...                                                                                     | 0935 | 9420                                          | 80                                                   | 6.9           | 22.0                        | 6.5                                | --                                                         | --                                                | --                                                    |
| 16...                                                                                     | 1205 | 9680                                          | 80                                                   | 7.0           | 22.1                        | 6.3                                | --                                                         | --                                                | --                                                    |
| 16...                                                                                     | 1615 | 9940                                          | 60                                                   | 6.6           | 22.0                        | 6.7                                | --                                                         | --                                                | --                                                    |

|                                                                                 |      |     |    |     |      |     |      |       |     |
|---------------------------------------------------------------------------------|------|-----|----|-----|------|-----|------|-------|-----|
| 07281615 - TALLAHATCHIE RIVER AT GREENWOOD, MISS. (LAT 33 32 22 LONG 090 11 37) |      |     |    |     |      |     |      |       |     |
| MAY * 1974                                                                      |      |     |    |     |      |     |      |       |     |
| 14...                                                                           | 0800 | 470 | 78 | 6.9 | 21.0 | 5.6 | --   | --    | --  |
| 14...                                                                           | 1005 | 470 | 74 | 6.9 | 22.0 | 5.9 | --   | --    | --  |
| 14...                                                                           | 1250 | 470 | 72 | 6.9 | 22.5 | 5.4 | --   | --    | --  |
| 14...                                                                           | 1610 | 470 | 76 | 6.9 | 23.5 | 5.8 | --   | --    | --  |
| 14...                                                                           | 1830 | 470 | 75 | 6.9 | 22.5 | 6.0 | --   | --    | --  |
| 15...                                                                           | 1010 | 520 | 72 | 7.0 | 22.0 | 6.6 | 60   | 210   | 220 |
| 15...                                                                           | 1045 | 520 | 80 | 6.8 | 23.0 | 6.5 | --   | --    | --  |
| 15...                                                                           | 1330 | 520 | 80 | 6.5 | 22.0 | 6.0 | 350  | 230   | 420 |
| 15...                                                                           | 1625 | 530 | 85 | 6.9 | 22.5 | 6.3 | --   | --    | --  |
| 15...                                                                           | 1825 | 530 | 85 | 6.9 | 22.5 | 6.6 | 250  | 97    | 320 |
| 15...                                                                           | 2115 | 510 | 78 | 6.9 | 22.0 | 6.5 | --   | --    | --  |
| 16...                                                                           | 0140 | 430 | 77 | 6.8 | 22.0 | 5.8 | 3500 | H3300 | 800 |
| 16...                                                                           | 0445 | 310 | 80 | 6.8 | 21.0 | 5.2 | --   | --    | --  |
| 16...                                                                           | 0500 | 300 | 82 | 6.8 | 21.0 | 5.0 | --   | --    | --  |
| 16...                                                                           | 0945 | 120 | 80 | 6.8 | 22.0 | 5.7 | --   | --    | --  |
| 16...                                                                           | 1305 | 30  | 78 | 6.9 | 24.0 | 5.9 | --   | --    | --  |
| 16...                                                                           | 1635 | -40 | 78 | 6.7 | 23.0 | 5.6 | --   | --    | --  |

|                                                                                           |      |     |    |     |      |     |      |     |     |
|-------------------------------------------------------------------------------------------|------|-----|----|-----|------|-----|------|-----|-----|
| 07281618 - TALLAHATCHIE R AB YALOHUSHA R AT GREENWOOD, MISS (LAT 33 33 03 LONG 090 10 55) |      |     |    |     |      |     |      |     |     |
| MAY * 1974                                                                                |      |     |    |     |      |     |      |     |     |
| 14...                                                                                     | 0755 | 470 | 78 | 7.0 | 21.5 | 5.4 | --   | --  | --  |
| 14...                                                                                     | 0955 | 470 | 80 | 6.9 | 22.0 | 5.8 | --   | --  | --  |
| 14...                                                                                     | 1240 | 470 | 78 | 7.0 | 23.0 | 5.9 | --   | --  | --  |
| 14...                                                                                     | 1605 | 470 | 80 | 6.9 | 24.0 | 6.1 | --   | --  | --  |
| 14...                                                                                     | 1815 | 470 | 80 | 6.9 | 23.5 | 5.8 | --   | --  | --  |
| 15...                                                                                     | 0955 | 520 | 72 | 7.0 | 23.0 | 6.8 | 1500 | 430 | 190 |
| 15...                                                                                     | 1030 | 520 | 70 | 6.9 | 23.0 | 6.8 | --   | --  | --  |
| 15...                                                                                     | 1315 | 520 | 60 | 7.1 | 22.0 | 6.0 | 430  | 260 | 940 |
| 15...                                                                                     | 1620 | 530 | 80 | 7.0 | 22.5 | 6.7 | --   | --  | --  |
| 15...                                                                                     | 1810 | 530 | 75 | 7.1 | 22.0 | 6.2 | 3500 | 500 | 57  |
| 15...                                                                                     | 2105 | 510 | 79 | 6.8 | 22.0 | 6.7 | --   | --  | --  |
| 16...                                                                                     | 0120 | 450 | 54 | 6.7 | 21.0 | 5.2 | --   | --  | --  |
| 16...                                                                                     | 0440 | 310 | 78 | 6.8 | 19.0 | 5.8 | --   | --  | --  |
| 16...                                                                                     | 0515 | 290 | 76 | 6.7 | 20.0 | 5.5 | --   | --  | --  |
| 16...                                                                                     | 0935 | 130 | 65 | 6.6 | 20.0 | 6.0 | --   | --  | --  |
| 16...                                                                                     | 1255 | 40  | 75 | 6.8 | 23.0 | 5.9 | --   | --  | --  |
| 16...                                                                                     | 1625 | -40 | 74 | 6.7 | 23.5 | 5.9 | --   | --  | --  |

|                                                                                        |      |      |    |     |      |     |       |      |     |
|----------------------------------------------------------------------------------------|------|------|----|-----|------|-----|-------|------|-----|
| 07286400 - YALOHUSHA R AB BIG SAND C NR GREENWOOD, MISS. (LAT 33 33 43 LONG 090 10 04) |      |      |    |     |      |     |       |      |     |
| MAY * 1974                                                                             |      |      |    |     |      |     |       |      |     |
| 14...                                                                                  | 0745 | 1340 | 80 | 7.1 | 22.5 | 7.0 | --    | --   | --  |
| 14...                                                                                  | 0950 | 1340 | 80 | 7.0 | 23.0 | 7.1 | --    | --   | --  |
| 14...                                                                                  | 1235 | 1330 | 78 | 7.0 | 23.0 | 7.1 | --    | --   | --  |
| 14...                                                                                  | 1600 | 1320 | 80 | 7.0 | 23.0 | 7.4 | --    | --   | --  |
| 14...                                                                                  | 1810 | 1300 | 78 | 7.1 | 23.5 | 7.4 | --    | --   | --  |
| 15...                                                                                  | 0940 | 1070 | 75 | 7.1 | 23.5 | 7.5 | H3300 | 1300 | 160 |
| 15...                                                                                  | 1020 | 1040 | 85 | 7.1 | 24.0 | 6.8 | --    | --   | --  |
| 15...                                                                                  | 1305 | 990  | 78 | 7.1 | 23.0 | 6.9 | H3300 | 1500 | 280 |
| 15...                                                                                  | 1610 | 980  | 85 | 7.1 | 22.5 | 6.9 | --    | --   | --  |
| 15...                                                                                  | 1805 | 990  | 75 | 7.1 | 22.5 | 7.2 | H3300 | 1400 | 150 |
| 15...                                                                                  | 2055 | 1050 | 75 | 6.9 | 21.0 | 6.5 | --    | --   | --  |
| 16...                                                                                  | 0925 | 3120 | 38 | 6.4 | 19.0 | 6.4 | --    | --   | --  |
| 16...                                                                                  | 1245 | 3490 | 42 | 6.5 | 20.0 | 6.2 | --    | --   | --  |
| 16...                                                                                  | 1615 | 3790 | 46 | 6.5 | 20.0 | 6.2 | --    | --   | --  |

## GREENWOOD AREA.--Continued

| DATE | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | IMME-<br>DIATE<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) |
|------|------|------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|
|------|------|------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|

07286955 - BIG SAND CREEK AT MOUTH NEAR GREENWOOD, MISS. (LAT 33 33 40 LONG 090 10 02)

MAY, 1974

|       |      |     |     |     |      |     |      |     |      |
|-------|------|-----|-----|-----|------|-----|------|-----|------|
| 14... | 0735 | 59  | 85  | 7.3 | 20.0 | 8.5 | --   | --  | --   |
| 14... | 0945 | 59  | 90  | 7.3 | 21.0 | 8.7 | --   | --  | --   |
| 14... | 1225 | 58  | 88  | 7.4 | 26.0 | 8.0 | --   | --  | --   |
| 14... | 1550 | 58  | 86  | 7.4 | 30.0 | 7.6 | --   | --  | --   |
| 14... | 1805 | 57  | 88  | 7.3 | 28.0 | 7.4 | --   | --  | --   |
| 15... | 0945 | 46  | 115 | 7.1 | 23.0 | 7.7 | 67   | 310 | 260  |
| 15... | 1010 | 46  | 165 | 7.0 | 23.0 | 7.5 | --   | --  | --   |
| 15... | 1300 | 43  | 83  | 7.1 | 22.0 | 8.0 | 1300 | 470 | 780  |
| 15... | 1605 | 43  | 88  | 7.5 | 23.0 | 8.6 | --   | --  | --   |
| 15... | 1800 | 44  | 80  | 7.2 | 23.0 | 8.3 | 6800 | 450 | 1200 |
| 15... | 2035 | 48  | 75  | 7.2 | 22.0 | 8.1 | --   | --  | --   |
| 16... | 0920 | 138 | 85  | 7.2 | --   | 8.1 | --   | --  | --   |
| 16... | 1240 | 155 | 85  | 7.3 | 26.5 | 8.3 | --   | --  | --   |
| 16... | 1610 | 16  | 85  | 7.4 | 29.5 | 7.7 | --   | --  | --   |

07286965 - YALOBUSHA RIVER AT MOUTH NEAR GREENWOOD, MISS. (LAT 33 33 12 LONG 090 10 51)

MAY, 1974

|       |      |      |    |     |      |     |        |      |     |
|-------|------|------|----|-----|------|-----|--------|------|-----|
| 14... | 0730 | 1400 | 75 | 6.9 | 23.0 | 7.2 | --     | --   | --  |
| 14... | 0935 | 1400 | 80 | 7.0 | 23.0 | 7.2 | --     | --   | --  |
| 14... | 1220 | 1390 | 84 | 7.0 | 23.0 | 7.2 | --     | --   | --  |
| 14... | 1540 | 1380 | 82 | 7.0 | 24.0 | 7.5 | --     | --   | --  |
| 14... | 1800 | 1360 | 80 | 7.1 | 24.0 | 7.6 | --     | --   | --  |
| 15... | 0745 | 1120 | 74 | 6.9 | 23.0 | 6.2 | 83300  | 700  | 250 |
| 15... | 1000 | 1090 | 78 | 7.0 | 24.0 | 7.0 | --     | --   | --  |
| 15... | 1245 | 1030 | 75 | 7.2 | 23.0 | 7.2 | 83300  | 310  | 160 |
| 15... | 1555 | 1020 | 85 | 7.2 | 22.5 | 7.1 | --     | --   | --  |
| 15... | 1755 | 1030 | 75 | 7.0 | 22.5 | 7.2 | 810000 | 1200 | 170 |
| 15... | 2025 | 1100 | 78 | 6.8 | 22.0 | 7.1 | --     | --   | --  |
| 16... | 0010 | 1430 | 45 | 6.5 | 19.0 | 5.9 | --     | --   | --  |
| 16... | 0430 | 2080 | 42 | 6.5 | 19.0 | 6.2 | --     | --   | --  |
| 16... | 0520 | 2340 | 45 | 6.5 | 19.0 | 6.2 | --     | --   | --  |
| 16... | 0910 | 3260 | 40 | 6.4 | 19.0 | 6.4 | --     | --   | --  |
| 16... | 1230 | 3650 | 42 | 6.5 | 20.0 | 6.3 | --     | --   | --  |
| 16... | 1605 | 3960 | 46 | 6.4 | 20.5 | 6.3 | --     | --   | --  |

07286975 - YAZOO R TR AB GRENADA JCT NR GREENWOOD, MISS. (LAT 33 32 40 LONG 090 10 03)

MAY, 1974

|       |      |    |     |     |      |     |        |       |        |
|-------|------|----|-----|-----|------|-----|--------|-------|--------|
| 14... | 0720 | -- | 600 | 9.8 | 38.0 | 4.4 | --     | --    | --     |
| 14... | 0930 | -- | 550 | 9.1 | 34.0 | 5.0 | --     | --    | --     |
| 14... | 1210 | -- | 500 | 8.5 | 35.0 | 4.3 | --     | --    | --     |
| 14... | 1530 | -- | 450 | 8.6 | 32.0 | 5.0 | --     | --    | --     |
| 14... | 1750 | -- | 450 | 9.3 | 30.5 | 5.7 | --     | --    | --     |
| 15... | 0730 | -- | 210 | 7.6 | 27.0 | 5.9 | 83300  | 1800  | 1100   |
| 15... | 0950 | -- | 300 | 7.9 | 29.0 | 5.7 | --     | --    | --     |
| 15... | 1235 | -- | 300 | 8.3 | 33.0 | 5.8 | 83300  | 83300 | 810000 |
| 15... | 1550 | -- | 500 | 8.7 | 31.0 | 5.5 | --     | --    | --     |
| 15... | 1745 | -- | 350 | 8.5 | 31.0 | 6.1 | 810000 | 2500  | 340    |
| 15... | 2015 | -- | 290 | 8.5 | 29.0 | 6.2 | --     | --    | --     |
| 16... | 0055 | -- | 64  | 6.7 | 20.0 | 5.1 | --     | --    | --     |
| 16... | 0420 | -- | 115 | 7.2 | 19.0 | 5.2 | --     | --    | --     |
| 16... | 0530 | -- | 47  | 6.5 | 19.0 | 5.8 | --     | --    | --     |
| 16... | 0900 | -- | 325 | 8.4 | 21.0 | 5.5 | --     | --    | --     |
| 16... | 1225 | -- | 275 | 7.3 | 20.5 | 5.6 | --     | --    | --     |
| 16... | 1550 | -- | 340 | 8.7 | 32.0 | 5.3 | --     | --    | --     |

07286985 - YAZOO R BL GRENADA JCT NR GREENWOOD, MISS. (LAT 33 31 38 LONG 090 10 23)

MAY, 1974

|       |      |      |     |     |      |     |         |         |        |
|-------|------|------|-----|-----|------|-----|---------|---------|--------|
| 14... | 0715 | 1880 | 450 | 7.6 | 22.0 | 5.5 | --      | --      | --     |
| 14... | 0915 | 1870 | 500 | 7.6 | 22.0 | 7.4 | --      | --      | --     |
| 14... | 1205 | 1850 | 350 | 7.6 | 23.0 | 6.9 | --      | --      | --     |
| 14... | 1525 | 1830 | 500 | 7.7 | 24.0 | 6.7 | --      | --      | --     |
| 14... | 1740 | 1810 | 550 | 7.7 | 24.0 | 6.6 | --      | --      | --     |
| 15... | 0720 | 1650 | 74  | 6.9 | 23.0 | 6.8 | 26000   | 5200    | 320    |
| 15... | 0945 | 1610 | 150 | 7.4 | 23.0 | 6.2 | --      | --      | --     |
| 15... | 1220 | 1560 | 540 | 8.0 | 23.0 | 6.8 | 8100000 | 8100000 | 810000 |
| 15... | 1540 | 1550 | 600 | 7.9 | 23.0 | 5.3 | --      | --      | --     |
| 15... | 1730 | 1570 | 110 | 7.0 | 23.0 | 4.2 | 78000   | 16000   | 1100   |
| 15... | 2010 | 1650 | 130 | 6.9 | 22.0 | 5.6 | --      | --      | --     |
| 16... | 0040 | 1960 | 76  | 6.7 | 21.0 | 5.0 | --      | --      | --     |
| 16... | 0350 | 2420 | 49  | 6.4 | 19.0 | 5.6 | --      | --      | --     |
| 16... | 0550 | 2770 | 46  | 6.5 | 19.0 | 5.9 | --      | --      | --     |
| 16... | 0850 | 3300 | 52  | 6.5 | 19.0 | 5.7 | --      | --      | --     |
| 16... | 1210 | 3720 | 46  | 6.4 | 20.0 | 5.7 | --      | --      | --     |
| 16... | 1540 | 3900 | 57  | 6.5 | 21.5 | 5.9 | --      | --      | --     |

## ANALYSES OF SAMPLES COLLECTED DURING SHORT-TERM INTENSIVE STUDIES

## GREENWOOD AREA.--Continued

| DATE                                                                                      | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | IMME-<br>DIATE<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) |
|-------------------------------------------------------------------------------------------|------|-----------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|
| 07247002 - YAZOO RIVER AT US49 BYPASS AT GREENWOOD, MISS. (LAT 33 31 08 LONG 090 12 12)   |      |                                               |                                                            |               |                             |                                    |                                                            |                                                   |                                                       |
| MAY , 1974                                                                                |      |                                               |                                                            |               |                             |                                    |                                                            |                                                   |                                                       |
| 14...                                                                                     | 0700 | 1880                                          | 58                                                         | 7.0           | 22.8                        | 7.0                                | --                                                         | --                                                | --                                                    |
| 14...                                                                                     | 0955 | 1870                                          | 50                                                         | 6.9           | 23.1                        | 6.9                                | --                                                         | --                                                | --                                                    |
| 14...                                                                                     | 1315 | 1950                                          | 54                                                         | 7.0           | 24.0                        | 6.4                                | --                                                         | --                                                | --                                                    |
| 14...                                                                                     | 1635 | 1830                                          | 54                                                         | 7.1           | 24.5                        | 6.7                                | --                                                         | --                                                | --                                                    |
| 14...                                                                                     | 1850 | 1810                                          | 50                                                         | 7.0           | 23.5                        | 6.6                                | --                                                         | --                                                | --                                                    |
| 15...                                                                                     | 0700 | 1650                                          | 85                                                         | 7.0           | 23.0                        | 6.0                                | 16000                                                      | 3300                                              | 580                                                   |
| 15...                                                                                     | 0930 | 1610                                          | 88                                                         | 7.0           | 23.0                        | 6.2                                | --                                                         | --                                                | --                                                    |
| 15...                                                                                     | 1400 | 1550                                          | 84                                                         | 7.5           | 23.0                        | 6.1                                | 29000                                                      | 2800                                              | 800                                                   |
| 15...                                                                                     | 1645 | 1550                                          | 110                                                        | 7.2           | 23.5                        | 6.1                                | --                                                         | --                                                | --                                                    |
| 15...                                                                                     | 1845 | 1670                                          | 88                                                         | 7.0           | 23.0                        | 6.3                                | 43000                                                      | 2700                                              | 540                                                   |
| 15...                                                                                     | 2145 | 1730                                          | 85                                                         | 6.9           | 22.0                        | 6.3                                | --                                                         | --                                                | --                                                    |
| 16...                                                                                     | 0720 | 1910                                          | 6                                                          | 6.8           | 22.0                        | 6.1                                | --                                                         | --                                                | --                                                    |
| 16...                                                                                     | 0740 | 2400                                          | 74                                                         | 6.6           | 20.0                        | 5.4                                | --                                                         | --                                                | --                                                    |
| 16...                                                                                     | 0605 | 2850                                          | 52                                                         | 6.4           | 20.0                        | 5.4                                | --                                                         | --                                                | --                                                    |
| 16...                                                                                     | 1015 | 3520                                          | 44                                                         | 6.5           | 19.5                        | 5.8                                | --                                                         | --                                                | --                                                    |
| 16...                                                                                     | 1325 | 3790                                          | 42                                                         | 6.4           | 20.0                        | 6.0                                | --                                                         | --                                                | --                                                    |
| 16...                                                                                     | 1700 | 3970                                          | 43                                                         | 6.4           | 20.0                        | 6.0                                | --                                                         | --                                                | --                                                    |
| 07247003 - EFFLUENT DRAIN AT ELEC PLANT AT GREENWOOD, MISS. (LAT 33 31 11 LONG 090 12 31) |      |                                               |                                                            |               |                             |                                    |                                                            |                                                   |                                                       |
| MAY , 1974                                                                                |      |                                               |                                                            |               |                             |                                    |                                                            |                                                   |                                                       |
| 14...                                                                                     | 0720 | 4.9                                           | 550                                                        | 7.1           | 28.3                        | 7.7                                | --                                                         | --                                                | --                                                    |
| 14...                                                                                     | 1010 | 17                                            | 550                                                        | 7.2           | 28.9                        | 7.5                                | --                                                         | --                                                | --                                                    |
| 14...                                                                                     | 1320 | 13                                            | 560                                                        | 7.2           | 27.0                        | 6.9                                | --                                                         | --                                                | --                                                    |
| 14...                                                                                     | 1640 | 13                                            | 500                                                        | 7.1           | 28.0                        | 7.0                                | --                                                         | --                                                | --                                                    |
| 14...                                                                                     | 1905 | 13                                            | 500                                                        | 7.2           | 27.5                        | 7.0                                | --                                                         | --                                                | --                                                    |
| 15...                                                                                     | 0545 | 7.8                                           | 310                                                        | 7.2           | 24.0                        | 6.4                                | 23300                                                      | 1400                                              | 700                                                   |
| 15...                                                                                     | 0920 | 13                                            | 400                                                        | 7.2           | 23.0                        | 6.3                                | --                                                         | --                                                | --                                                    |
| 15...                                                                                     | 1405 | 15                                            | 500                                                        | 7.3           | 26.5                        | 7.2                                | 3                                                          | <1                                                | 10                                                    |
| 15...                                                                                     | 1650 | 15                                            | 600                                                        | 7.3           | 26.0                        | 7.1                                | --                                                         | --                                                | --                                                    |
| 15...                                                                                     | 1950 | 13                                            | 500                                                        | 7.2           | 27.0                        | 7.8                                | 120                                                        | <1                                                | 17                                                    |
| 15...                                                                                     | 2155 | 13                                            | 500                                                        | 7.1           | 26.0                        | 7.8                                | --                                                         | --                                                | --                                                    |
| 16...                                                                                     | 0705 | 4.9                                           | 120                                                        | 6.8           | 25.0                        | 6.9                                | --                                                         | --                                                | --                                                    |
| 16...                                                                                     | 0930 | 8.9                                           | 320                                                        | 7.1           | 24.0                        | 6.7                                | --                                                         | --                                                | --                                                    |
| 16...                                                                                     | 0630 | 8.9                                           | 500                                                        | 7.1           | 20.0                        | 5.2                                | --                                                         | --                                                | --                                                    |
| 16...                                                                                     | 1025 | 13                                            | 500                                                        | 7.0           | 28.5                        | 6.3                                | --                                                         | --                                                | --                                                    |
| 16...                                                                                     | 1335 | 15                                            | 420                                                        | 7.0           | 30.0                        | 5.8                                | --                                                         | --                                                | --                                                    |
| 16...                                                                                     | 1710 | 15                                            | 480                                                        | 7.0           | 31.0                        | 5.4                                | --                                                         | --                                                | --                                                    |
| 07247005 - YAZOO R AB PEMBERTON CUT NR GREENWOOD, MISS. (LAT 33 31 38 LONG 090 14 10)     |      |                                               |                                                            |               |                             |                                    |                                                            |                                                   |                                                       |
| MAY , 1974                                                                                |      |                                               |                                                            |               |                             |                                    |                                                            |                                                   |                                                       |
| 14...                                                                                     | 0730 | 1840                                          | 50                                                         | 7.0           | 23.0                        | 7.0                                | --                                                         | --                                                | --                                                    |
| 14...                                                                                     | 1020 | 1870                                          | 50                                                         | 7.0           | 23.2                        | 7.3                                | --                                                         | --                                                | --                                                    |
| 14...                                                                                     | 1300 | 1850                                          | 55                                                         | 7.2           | 24.6                        | 6.9                                | --                                                         | --                                                | --                                                    |
| 14...                                                                                     | 1540 | 1830                                          | 55                                                         | 7.2           | 24.8                        | 7.8                                | --                                                         | --                                                | --                                                    |
| 14...                                                                                     | 1810 | 1810                                          | 50                                                         | 7.2           | 24.1                        | 7.8                                | --                                                         | --                                                | --                                                    |
| 15...                                                                                     | 0640 | 1650                                          | 76                                                         | 7.0           | 23.8                        | 7.3                                | 22000                                                      | 1600                                              | 380                                                   |
| 15...                                                                                     | 0930 | 1610                                          | 50                                                         | 7.0           | 23.6                        | 7.5                                | --                                                         | --                                                | --                                                    |
| 15...                                                                                     | 1245 | 1560                                          | 65                                                         | 7.2           | 23.2                        | 6.6                                | 6100                                                       | 1000                                              | 310                                                   |
| 15...                                                                                     | 1530 | 1550                                          | 83                                                         | 7.1           | 23.4                        | 6.6                                | --                                                         | --                                                | --                                                    |
| 15...                                                                                     | 1830 | 1590                                          | 90                                                         | 7.0           | 23.4                        | 6.6                                | 2900                                                       | 2500                                              | 260                                                   |
| 15...                                                                                     | 2105 | 1700                                          | 95                                                         | 7.1           | 23.5                        | 6.7                                | --                                                         | --                                                | --                                                    |
| 16...                                                                                     | 0025 | 1950                                          | 42                                                         | 6.8           | 22.9                        | 6.3                                | 5000                                                       | 4300                                              | 240                                                   |
| 16...                                                                                     | 0410 | 2500                                          | 85                                                         | 6.8           | 22.3                        | 6.7                                | --                                                         | --                                                | --                                                    |
| 16...                                                                                     | 0605 | 2820                                          | 85                                                         | 6.7           | 22.1                        | 5.9                                | --                                                         | --                                                | --                                                    |
| 16...                                                                                     | 0920 | 3400                                          | 54                                                         | 6.5           | 19.9                        | 5.4                                | --                                                         | --                                                | --                                                    |
| 16...                                                                                     | 1155 | 3680                                          | 50                                                         | 6.5           | 20.0                        | 6.4                                | --                                                         | --                                                | --                                                    |
| 16...                                                                                     | 1610 | 3540                                          | 48                                                         | 6.5           | 21.0                        | 7.0                                | --                                                         | --                                                | --                                                    |
| 07247010 - YAZOO RIVER AT FORT LURING, MISS. (LAT 33 30 12 LONG 090 15 02)                |      |                                               |                                                            |               |                             |                                    |                                                            |                                                   |                                                       |
| MAY , 1974                                                                                |      |                                               |                                                            |               |                             |                                    |                                                            |                                                   |                                                       |
| 14...                                                                                     | 0745 | 4300                                          | 80                                                         | 6.9           | 21.8                        | 6.9                                | --                                                         | --                                                | --                                                    |
| 14...                                                                                     | 1030 | 4280                                          | 82                                                         | 6.9           | 22.0                        | 7.0                                | --                                                         | --                                                | --                                                    |
| 14...                                                                                     | 1325 | 4260                                          | 85                                                         | 6.9           | 22.7                        | 6.6                                | --                                                         | --                                                | --                                                    |
| 14...                                                                                     | 1600 | 4240                                          | 85                                                         | 6.9           | 22.8                        | 6.4                                | --                                                         | --                                                | --                                                    |
| 14...                                                                                     | 1925 | 4200                                          | 78                                                         | 7.0           | 22.6                        | 7.2                                | --                                                         | --                                                | --                                                    |
| 15...                                                                                     | 0705 | 8800                                          | 72                                                         | 7.0           | 22.7                        | 7.1                                | 4300                                                       | 590                                               | 620                                                   |
| 15...                                                                                     | 0945 | 8690                                          | 80                                                         | 6.9           | 22.7                        | 6.6                                | --                                                         | --                                                | --                                                    |
| 15...                                                                                     | 1325 | 8560                                          | 58                                                         | 7.7           | 22.5                        | 6.5                                | 1900                                                       | 480                                               | 270                                                   |
| 15...                                                                                     | 1605 | 8550                                          | 72                                                         | 7.3           | 22.8                        | 6.6                                | --                                                         | --                                                | --                                                    |
| 15...                                                                                     | 1850 | 8680                                          | 80                                                         | 6.9           | 22.6                        | 6.6                                | 200                                                        | 150                                               | 52                                                    |
| 15...                                                                                     | 2135 | 8960                                          | 84                                                         | 7.0           | 22.6                        | 6.6                                | --                                                         | --                                                | --                                                    |
| 16...                                                                                     | 0100 | 9660                                          | 85                                                         | 6.9           | 22.4                        | 6.4                                | --                                                         | --                                                | --                                                    |
| 16...                                                                                     | 0434 | 10700                                         | 95                                                         | 6.9           | 22.7                        | 6.7                                | --                                                         | --                                                | --                                                    |
| 16...                                                                                     | 0635 | 11500                                         | 85                                                         | 6.8           | 22.5                        | 6.4                                | --                                                         | --                                                | --                                                    |
| 16...                                                                                     | 0945 | 12700                                         | 72                                                         | 6.8           | 21.3                        | 6.0                                | --                                                         | --                                                | --                                                    |
| 16...                                                                                     | 1215 | 13200                                         | 68                                                         | 6.7           | 22.0                        | 6.2                                | --                                                         | --                                                | --                                                    |
| 16...                                                                                     | 1625 | 13700                                         | 60                                                         | 6.6           | 22.0                        | 6.8                                | --                                                         | --                                                | --                                                    |



## GREENWOOD AREA.--Continued

| DATE | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | IMME-<br>DIATE<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>UNIES<br>PER<br>100 ML) |
|------|------|-----------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|
|------|------|-----------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|

07247020 - YAZOO RIVER WALKER LK PUMP PLANT NR GREENWOOD, MS (LAT 33 29 06 LONG 090 13 44)

MAY, 1974

|       |      |       |    |     |      |     |      |     |     |
|-------|------|-------|----|-----|------|-----|------|-----|-----|
| 14... | 1050 | 9400  | 62 | 6.9 | 22.0 | 6.9 | --   | --  | --  |
| 14... | 1340 | 9380  | 84 | 7.0 | 22.7 | 6.7 | --   | --  | --  |
| 14... | 1615 | 9340  | 84 | 6.9 | 22.8 | 6.5 | --   | --  | --  |
| 14... | 1835 | 9310  | 84 | 7.0 | 22.7 | 7.2 | --   | --  | --  |
| 15... | 0720 | 8920  | 76 | 6.9 | 22.6 | 7.2 | 3500 | 830 | 520 |
| 15... | 0955 | 8820  | 80 | 6.9 | 22.7 | 6.8 | --   | --  | --  |
| 15... | 1340 | 8700  | 65 | 7.3 | 22.5 | 6.6 | 2500 | 450 | 280 |
| 15... | 1620 | 8700  | 42 | 7.3 | 22.6 | 6.7 | --   | --  | --  |
| 15... | 1900 | 8800  | 72 | 7.0 | 22.5 | 6.6 | --   | --  | --  |
| 15... | 2150 | 9160  | 70 | 7.0 | 22.2 | 6.6 | --   | --  | --  |
| 16... | 0120 | 9820  | 85 | 6.9 | 22.4 | 6.4 | --   | --  | --  |
| 16... | 0450 | 10900 | 82 | 6.9 | 22.3 | 6.5 | --   | --  | --  |
| 16... | 0650 | 11700 | 82 | 6.8 | 25.1 | 6.4 | --   | --  | --  |
| 16... | 0955 | 12600 | 75 | 6.8 | 21.8 | 6.1 | --   | --  | --  |
| 16... | 1225 | 13100 | 70 | 6.7 | 22.0 | 6.4 | --   | --  | --  |
| 16... | 1640 | 13500 | 66 | 6.7 | 22.0 | 6.7 | --   | --  | --  |

07247030 - YAZOO RIVER AB PELUCIA CREEK NR GREENWOOD, MISS. (LAT 33 27 49 LONG 090 13 21)

MAY, 1974

|       |      |       |    |     |      |     |      |      |     |
|-------|------|-------|----|-----|------|-----|------|------|-----|
| 14... | 0420 | 9500  | 60 | 7.0 | 21.6 | 6.8 | --   | --   | --  |
| 14... | 1100 | 9490  | 64 | 6.9 | 22.1 | 7.0 | --   | --   | --  |
| 14... | 1350 | 9450  | 80 | 7.0 | 22.8 | 6.8 | --   | --   | --  |
| 14... | 1625 | 9440  | 84 | 6.9 | 22.9 | 6.4 | --   | --   | --  |
| 14... | 1845 | 9410  | 82 | 6.9 | 22.8 | 7.2 | --   | --   | --  |
| 15... | 0750 | 9000  | 76 | 6.9 | 23.2 | 7.2 | 4000 | 1100 | 700 |
| 15... | 1005 | 8580  | 82 | 6.9 | 22.7 | 6.8 | --   | --   | --  |
| 15... | 1350 | 8500  | 70 | 7.1 | 22.5 | 6.5 | 3500 | 760  | 800 |
| 15... | 1630 | 8880  | 74 | 7.1 | 22.7 | 6.8 | --   | --   | --  |
| 15... | 1910 | 8990  | 73 | 7.0 | 22.4 | 6.5 | --   | --   | --  |
| 15... | 2105 | 9120  | 67 | 7.0 | 22.4 | 6.7 | --   | --   | --  |
| 16... | 0135 | 9830  | 86 | 6.9 | 22.3 | 6.4 | 430  | 140  | 120 |
| 16... | 0505 | 10900 | 82 | 6.9 | 22.6 | 6.6 | --   | --   | --  |
| 16... | 0710 | 11800 | 82 | 6.9 | --   | 5.8 | --   | --   | --  |
| 16... | 1005 | 12500 | 78 | 6.8 | 22.0 | 6.1 | --   | --   | --  |
| 16... | 1235 | 13000 | 70 | 6.8 | 22.0 | 6.5 | --   | --   | --  |
| 16... | 1655 | 13400 | 70 | 6.7 | 22.0 | 6.5 | --   | --   | --  |

07247105 - PELUCIA CREEK AT MOUTH NEAR RISING SUN, MISS. (LAT 33 27 48 LONG 090 13 16)

MAY, 1974

|       |      |     |    |     |      |     |       |      |     |
|-------|------|-----|----|-----|------|-----|-------|------|-----|
| 14... | 0830 | 54  | 76 | 7.3 | 21.2 | 8.0 | --    | --   | --  |
| 14... | 1105 | 54  | 76 | 7.3 | 22.3 | 8.5 | --    | --   | --  |
| 14... | 1355 | 52  | 75 | 7.3 | 25.0 | 8.3 | --    | --   | --  |
| 14... | 1630 | 52  | 75 | 7.3 | 27.0 | 8.0 | --    | --   | --  |
| 14... | 1850 | 51  | 75 | 7.3 | 27.0 | 8.4 | --    | --   | --  |
| 15... | 0745 | 41  | 72 | 7.1 | 23.8 | 7.5 | 15000 | 1900 | 560 |
| 15... | 1010 | 41  | 80 | 7.1 | 23.5 | 7.8 | --    | --   | --  |
| 15... | 1355 | 40  | 63 | 7.3 | 23.0 | 8.0 | 2200  | 3800 | 940 |
| 15... | 1635 | 40  | 75 | 7.3 | 23.2 | 8.3 | --    | --   | --  |
| 15... | 1920 | 41  | 76 | 7.1 | 23.1 | 8.2 | --    | --   | --  |
| 15... | 2220 | 48  | 80 | 7.1 | 22.9 | 7.9 | --    | --   | --  |
| 16... | 0145 | 62  | 86 | 7.1 | 22.0 | 6.9 | 5500  | 1600 | 280 |
| 16... | 0515 | 81  | 80 | 7.1 | 22.2 | 7.7 | --    | --   | --  |
| 16... | 0715 | 112 | 82 | 7.1 | --   | --  | --    | --   | --  |
| 16... | 1010 | 136 | 78 | 7.3 | 21.5 | 8.1 | --    | --   | --  |
| 16... | 1240 | 148 | 80 | 7.3 | 23.0 | 8.9 | --    | --   | --  |
| 16... | 1700 | 158 | 80 | 7.3 | 25.9 | 9.2 | --    | --   | --  |

07247115 - YAZOO RIVER AT ROEBUCK, MISS. (LAT 33 26 39 LONG 090 14 00)

MAY, 1974

|       |      |       |    |     |      |     |      |     |     |
|-------|------|-------|----|-----|------|-----|------|-----|-----|
| 14... | 0940 | 9570  | 80 | 6.9 | 21.5 | 6.8 | --   | --  | --  |
| 14... | 1110 | 9560  | 80 | 7.0 | 22.1 | 6.8 | --   | --  | --  |
| 14... | 1405 | 9540  | 80 | 6.9 | 22.8 | 6.7 | --   | --  | --  |
| 14... | 1640 | 9510  | 84 | 7.0 | 22.9 | 6.5 | --   | --  | --  |
| 14... | 1855 | 9480  | 82 | 7.0 | 22.8 | 7.1 | --   | --  | --  |
| 15... | 0735 | 9080  | 76 | 7.0 | 22.3 | 7.0 | 2600 | 670 | 460 |
| 15... | 1020 | 8980  | 82 | 6.9 | 23.7 | 6.7 | --   | --  | --  |
| 15... | 1405 | 8850  | 63 | 7.7 | 22.6 | 6.5 | 2400 | 690 | 20  |
| 15... | 1645 | 8870  | 80 | 7.1 | 22.7 | 6.7 | --   | --  | --  |
| 15... | 1925 | 9090  | 80 | 7.0 | 22.5 | 6.6 | --   | --  | --  |
| 15... | 2230 | 9340  | 83 | 7.0 | 22.3 | 6.7 | --   | --  | --  |
| 16... | 0200 | 10100 | 85 | 7.0 | 22.3 | 6.5 | --   | --  | --  |
| 16... | 0520 | 11100 | 82 | 6.9 | 22.5 | 6.6 | --   | --  | --  |
| 16... | 0725 | 11700 | 82 | 6.9 | --   | --  | --   | --  | --  |
| 16... | 1020 | 12500 | 78 | 7.0 | 22.0 | 6.2 | --   | --  | --  |
| 16... | 1245 | 12900 | 74 | 6.9 | 22.0 | 6.2 | --   | --  | --  |
| 16... | 1710 | 13300 | 70 | 6.9 | 22.0 | 6.5 | --   | --  | --  |

## ANALYSES OF SAMPLES COLLECTED DURING SHORT-TERM INTENSIVE STUDIES

## GREENWOOD AREA.--Continued

| DATE                                                                                      | TIME | TOTAL                                       | AMMONIA                        | ORGANIC                        | TOTAL                                           | TOTAL                          | TOTAL                            | TOTAL                            | BIO-                             |
|-------------------------------------------------------------------------------------------|------|---------------------------------------------|--------------------------------|--------------------------------|-------------------------------------------------|--------------------------------|----------------------------------|----------------------------------|----------------------------------|
|                                                                                           |      | NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | NITRO-<br>GEN<br>(N)<br>(MG/L) | NITRO-<br>GEN<br>(N)<br>(MG/L) | KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | NITRO-<br>GEN<br>(N)<br>(MG/L) | NITRO-<br>GEN<br>(NO3)<br>(MG/L) | PHOS-<br>PHORUS<br>(P)<br>(MG/L) | PHOS-<br>PHORUS<br>(P)<br>(MG/L) |
| 07281610 - TALLAHATCHIE R AB PEMBERTON CUT NR GREENWOOD, MS (LAT 33 31 58 LONG 090 14 17) |      |                                             |                                |                                |                                                 |                                |                                  |                                  |                                  |
| MAY, 1974                                                                                 |      |                                             |                                |                                |                                                 |                                |                                  |                                  |                                  |
| 15...                                                                                     | 0650 | .81                                         | .05                            | .86                            | .91                                             | 1.7                            | 7.6                              | .11                              | 1.3                              |
| 15...                                                                                     | 1310 | .80                                         | .07                            | .59                            | .66                                             | 1.5                            | 6.5                              | .27                              | 1.6                              |
| 15...                                                                                     | 1840 | .76                                         | .08                            | .70                            | .78                                             | 1.5                            | 6.8                              | .29                              | 1.9                              |
| 16...                                                                                     | 0035 | .73                                         | .08                            | .72                            | .80                                             | 1.5                            | 6.8                              | .31                              | 1.7                              |
| 16...                                                                                     | 0620 | --                                          | --                             | --                             | --                                              | --                             | --                               | --                               | 1.7                              |
| 07281615 - TALLAHATCHIE RIVER AT GREENWOOD, MISS. (LAT 33 32 22 LONG 090 11 37)           |      |                                             |                                |                                |                                                 |                                |                                  |                                  |                                  |
| MAY, 1974                                                                                 |      |                                             |                                |                                |                                                 |                                |                                  |                                  |                                  |
| 15...                                                                                     | 1010 | .66                                         | .12                            | .65                            | .77                                             | 1.4                            | 6.3                              | .23                              | 2.8                              |
| 15...                                                                                     | 1330 | .66                                         | .07                            | .68                            | .75                                             | 1.4                            | 6.2                              | .22                              | 1.6                              |
| 15...                                                                                     | 1825 | .65                                         | .17                            | .68                            | .85                                             | 1.5                            | 6.6                              | .22                              | 3.6                              |
| 16...                                                                                     | 0140 | .37                                         | .12                            | .69                            | .81                                             | 1.2                            | 5.2                              | .16                              | 1.6                              |
| 16...                                                                                     | 0500 | --                                          | --                             | --                             | --                                              | --                             | --                               | --                               | 1.4                              |
| 07281618 - TALLAHATCHIE R AB YALOBUSHA R AT GREENWOOD, MISS (LAT 33 33 03 LONG 090 10 55) |      |                                             |                                |                                |                                                 |                                |                                  |                                  |                                  |
| MAY, 1974                                                                                 |      |                                             |                                |                                |                                                 |                                |                                  |                                  |                                  |
| 15...                                                                                     | 0955 | .49                                         | .05                            | .67                            | .72                                             | 1.2                            | 5.4                              | .21                              | 1.9                              |
| 15...                                                                                     | 1315 | .58                                         | .08                            | .55                            | .63                                             | 1.2                            | 5.4                              | .23                              | 1.6                              |
| 15...                                                                                     | 1810 | .44                                         | .11                            | .56                            | .67                                             | 1.1                            | 4.9                              | .18                              | 1.9                              |
| 16...                                                                                     | 0120 | .26                                         | .54                            | .56                            | 1.1                                             | 1.4                            | 6.0                              | 1.2                              | 3.9                              |
| 16...                                                                                     | 0515 | --                                          | --                             | --                             | --                                              | --                             | --                               | --                               | 3.1                              |
| 07286400 - YALOBUSHA R AB BIG SAND C NH GREENWOOD, MISS. (LAT 33 33 43 LONG 090 10 04)    |      |                                             |                                |                                |                                                 |                                |                                  |                                  |                                  |
| MAY, 1974                                                                                 |      |                                             |                                |                                |                                                 |                                |                                  |                                  |                                  |
| 15...                                                                                     | 0940 | .22                                         | .06                            | .63                            | .69                                             | .91                            | 4.0                              | .15                              | 1.8                              |
| 15...                                                                                     | 1305 | .22                                         | .08                            | .66                            | .74                                             | .96                            | 4.3                              | .15                              | 2.1                              |
| 15...                                                                                     | 1805 | .23                                         | .12                            | .58                            | .70                                             | .93                            | 4.1                              | .17                              | 2.5                              |
| 07286955 - BIG SAND CREEK AT MOUTH NEAR GREENWOOD, MISS. (LAT 33 33 40 LONG 090 10 02)    |      |                                             |                                |                                |                                                 |                                |                                  |                                  |                                  |
| MAY, 1974                                                                                 |      |                                             |                                |                                |                                                 |                                |                                  |                                  |                                  |
| 15...                                                                                     | 0945 | .08                                         | .12                            | .44                            | .56                                             | .64                            | 2.8                              | .26                              | 4.3                              |
| 15...                                                                                     | 1300 | .15                                         | .06                            | .51                            | .57                                             | .72                            | 3.2                              | .19                              | 2.1                              |
| 15...                                                                                     | 1800 | .16                                         | .04                            | .44                            | .48                                             | .64                            | 2.8                              | .15                              | 2.3                              |
| 07286965 - YALOBUSHA RIVER AT MOUTH NEAR GREENWOOD, MISS. (LAT 33 33 12 LONG 090 10 51)   |      |                                             |                                |                                |                                                 |                                |                                  |                                  |                                  |
| MAY, 1974                                                                                 |      |                                             |                                |                                |                                                 |                                |                                  |                                  |                                  |
| 15...                                                                                     | 0745 | .22                                         | .08                            | .45                            | .53                                             | .75                            | 3.3                              | .16                              | 2.0                              |
| 15...                                                                                     | 1245 | .22                                         | .10                            | .60                            | .70                                             | .92                            | 4.1                              | .15                              | 1.8                              |
| 15...                                                                                     | 1745 | .23                                         | .10                            | .56                            | .66                                             | .89                            | 3.9                              | .15                              | 2.2                              |
| 16...                                                                                     | 0010 | .36                                         | .19                            | 3.2                            | 3.4                                             | 3.8                            | 17                               | 1.5                              | 5.4                              |
| 16...                                                                                     | 0520 | --                                          | --                             | --                             | --                                              | --                             | --                               | --                               | 5.2                              |
| 07286975 - YAZOO R TR AB GRENADA JCT NR GREENWOOD, MISS. (LAT 33 32 40 LONG 090 10 03)    |      |                                             |                                |                                |                                                 |                                |                                  |                                  |                                  |
| MAY, 1974                                                                                 |      |                                             |                                |                                |                                                 |                                |                                  |                                  |                                  |
| 15...                                                                                     | 0730 | .18                                         | .00                            | 3.3                            | 3.3                                             | 3.5                            | 15                               | 3.7                              | 12                               |
| 15...                                                                                     | 1235 | .07                                         | .29                            | 9.6                            | 9.9                                             | 10                             | 44                               | 13                               | 7.5                              |
| 15...                                                                                     | 1745 | .26                                         | .15                            | 2.3                            | 2.4                                             | 2.7                            | 12                               | 3.8                              | 12                               |
| 16...                                                                                     | 0055 | .35                                         | .35                            | 1.8                            | 2.1                                             | 2.5                            | 11                               | .89                              | 5.0                              |
| 16...                                                                                     | 0530 | --                                          | --                             | --                             | --                                              | --                             | --                               | --                               | 6.5                              |
| 07286985 - YAZOO R BL GRENADA JCT NR GREENWOOD, MISS. (LAT 33 31 38 LONG 090 10 23)       |      |                                             |                                |                                |                                                 |                                |                                  |                                  |                                  |
| MAY, 1974                                                                                 |      |                                             |                                |                                |                                                 |                                |                                  |                                  |                                  |
| 15...                                                                                     | 0720 | .36                                         | 1.7                            | 1.3                            | 3.0                                             | 3.4                            | 15                               | 1.3                              | 1.9                              |
| 15...                                                                                     | 1220 | .75                                         | 11                             | 1.0                            | 12                                              | 13                             | 56                               | 7.2                              | 9.9                              |
| 15...                                                                                     | 1730 | .31                                         | .85                            | 3.0                            | 3.8                                             | 4.1                            | 18                               | .44                              | 7.1                              |
| 16...                                                                                     | 0040 | .28                                         | .31                            | .89                            | 1.2                                             | 1.5                            | 6.6                              | .55                              | 3.1                              |
| 16...                                                                                     | 0550 | --                                          | --                             | --                             | --                                              | --                             | --                               | --                               | 5.5                              |

## TOTAL

| DATE                                                                                      | TIME | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>ORTHO<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) |
|-------------------------------------------------------------------------------------------|------|------------------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------|-----------------------------------------------------|
| 07297002 - YAZOO RIVER AT US49 BYPASS AT GREENWOOD, MISS. (LAT 33 31 08 LONG 090 12 12)   |      |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| MAY , 1974                                                                                |      |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| 15...                                                                                     | 0700 | .32                                                  | .15                                       | .53                                       | .68                                                      | 1.0                                     | 4.4                                       | .20                                       | .14                                                | 1.7                                                 |
| 15...                                                                                     | 1400 | .30                                                  | .17                                       | .59                                       | .76                                                      | 1.1                                     | 4.7                                       | .20                                       | .11                                                | 2.2                                                 |
| 15...                                                                                     | 1845 | .29                                                  | .17                                       | .59                                       | .76                                                      | 1.1                                     | 4.6                                       | .19                                       | .13                                                | 2.5                                                 |
| 16...                                                                                     | 0020 | .24                                                  | .15                                       | .59                                       | .74                                                      | .98                                     | 4.3                                       | .18                                       | .10                                                | 2.2                                                 |
| 16...                                                                                     | 0605 | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        | --                                        | --                                                 | 3.8                                                 |
| 07287003 - EFFLUENT DRAIN AT ELEC PLANT AT GREENWOOD, MISS. (LAT 33 31 11 LONG 090 12 31) |      |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| MAY , 1974                                                                                |      |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| 15...                                                                                     | 0645 | .26                                                  | .21                                       | .54                                       | .75                                                      | 1.0                                     | 4.5                                       | .28                                       | .15                                                | 1.8                                                 |
| 15...                                                                                     | 1405 | .01                                                  | .39                                       | .10                                       | .49                                                      | .50                                     | 2.2                                       | .51                                       | .33                                                | .7                                                  |
| 15...                                                                                     | 1850 | .01                                                  | .38                                       | .08                                       | .46                                                      | .47                                     | 2.1                                       | .46                                       | .14                                                | 5.8                                                 |
| 16...                                                                                     | 0005 | .23                                                  | .19                                       | .55                                       | .74                                                      | .97                                     | 4.3                                       | .20                                       | .13                                                | 2.2                                                 |
| 16...                                                                                     | 0630 | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        | --                                        | --                                                 | .0                                                  |
| 07287005 - YAZOO R AB PEMBERTON CUT NR GREENWOOD, MISS. (LAT 33 31 38 LONG 090 14 10)     |      |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| MAY , 1974                                                                                |      |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| 15...                                                                                     | 0640 | .31                                                  | .10                                       | .74                                       | .84                                                      | 1.2                                     | 5.1                                       | .20                                       | .13                                                | 2.2                                                 |
| 15...                                                                                     | 1245 | .31                                                  | .13                                       | .53                                       | .66                                                      | .97                                     | 4.3                                       | .21                                       | .12                                                | 1.9                                                 |
| 15...                                                                                     | 1830 | .29                                                  | .13                                       | .52                                       | .65                                                      | .94                                     | 4.2                                       | .20                                       | .12                                                | 2.3                                                 |
| 16...                                                                                     | 0025 | .29                                                  | .11                                       | .42                                       | .53                                                      | .82                                     | 3.6                                       | .15                                       | .12                                                | 2.1                                                 |
| 16...                                                                                     | 0605 | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        | --                                        | --                                                 | 2.0                                                 |
| 07287010 - YAZOO RIVER AT FORT LORING, MISS. (LAT 33 30 12 LONG 090 15 02)                |      |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| MAY , 1974                                                                                |      |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| 15...                                                                                     | 0705 | .75                                                  | .09                                       | .50                                       | .59                                                      | 1.3                                     | 5.9                                       | .28                                       | .19                                                | 1.5                                                 |
| 15...                                                                                     | 1325 | .71                                                  | .06                                       | .53                                       | .59                                                      | 1.3                                     | 5.8                                       | .30                                       | .18                                                | 2.1                                                 |
| 15...                                                                                     | 1850 | .66                                                  | .09                                       | .49                                       | .58                                                      | 1.2                                     | 5.5                                       | .24                                       | .18                                                | 1.8                                                 |
| 16...                                                                                     | 0100 | .59                                                  | .10                                       | .47                                       | .57                                                      | 1.2                                     | 5.1                                       | .28                                       | .17                                                | 2.0                                                 |
| 16...                                                                                     | 0635 | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        | --                                        | --                                                 | 1.9                                                 |
| 07287020 - YAZOO R AB WALKER LK PUMP PLANT NR GREENWOOD, MS (LAT 33 29 06 LONG 090 13 44) |      |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| MAY , 1974                                                                                |      |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| 15...                                                                                     | 0720 | .73                                                  | .09                                       | .54                                       | .63                                                      | 1.4                                     | 6.0                                       | .31                                       | .10                                                | 1.6                                                 |
| 15...                                                                                     | 1340 | .65                                                  | .07                                       | 2.2                                       | 2.3                                                      | 3.0                                     | 13                                        | .27                                       | .07                                                | 2.3                                                 |
| 15...                                                                                     | 1900 | .68                                                  | .09                                       | .85                                       | .94                                                      | 1.6                                     | 7.2                                       | .32                                       | .18                                                | 1.8                                                 |
| 16...                                                                                     | 0120 | .55                                                  | .10                                       | .54                                       | .64                                                      | 1.2                                     | 5.3                                       | .30                                       | .05                                                | 1.9                                                 |
| 16...                                                                                     | 0650 | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        | --                                        | --                                                 | 2.0                                                 |
| 07287030 - YAZOO RIVER AB PELUCIA CREEK NR GREENWOOD, MISS. (LAT 33 27 49 LONG 090 13 21) |      |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| MAY , 1974                                                                                |      |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| 15...                                                                                     | 0750 | .74                                                  | .09                                       | .76                                       | .85                                                      | 1.6                                     | 7.0                                       | .33                                       | .20                                                | 1.7                                                 |
| 15...                                                                                     | 1350 | .75                                                  | .10                                       | .82                                       | .92                                                      | 1.7                                     | 7.4                                       | .29                                       | .19                                                | 1.7                                                 |
| 15...                                                                                     | 1910 | .69                                                  | .09                                       | .67                                       | .76                                                      | 1.5                                     | 6.4                                       | .32                                       | .19                                                | 1.6                                                 |
| 16...                                                                                     | 0135 | .67                                                  | .09                                       | .51                                       | .60                                                      | 1.3                                     | 5.6                                       | .29                                       | .08                                                | 2.0                                                 |
| 16...                                                                                     | 0710 | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        | --                                        | --                                                 | 1.7                                                 |
| 07287105 - PELUCIA CREEK AT MOUTH NEAR RISING SUN, MISS. (LAT 33 27 48 LONG 090 13 16)    |      |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| MAY , 1974                                                                                |      |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| 15...                                                                                     | 0745 | .08                                                  | .08                                       | .45                                       | .53                                                      | .61                                     | 2.7                                       | .13                                       | .06                                                | 2.0                                                 |
| 15...                                                                                     | 1355 | .08                                                  | .09                                       | .40                                       | .49                                                      | .57                                     | 2.5                                       | .13                                       | .05                                                | 3.1                                                 |
| 15...                                                                                     | 1920 | .09                                                  | .04                                       | .50                                       | .54                                                      | .63                                     | 2.8                                       | .14                                       | .05                                                | 3.1                                                 |
| 16...                                                                                     | 0145 | .12                                                  | .04                                       | .53                                       | .57                                                      | .69                                     | 3.1                                       | .09                                       | .04                                                | 2.2                                                 |
| 16...                                                                                     | 0715 | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        | --                                        | --                                                 | 2.0                                                 |
| 07287115 - YAZOO RIVER AT ROEBUCK, MISS. (LAT 33 26 39 LONG 090 14 00)                    |      |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| MAY , 1974                                                                                |      |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| 15...                                                                                     | 0735 | .73                                                  | .07                                       | 1.0                                       | 1.1                                                      | 1.8                                     | 8.1                                       | .29                                       | .20                                                | 1.5                                                 |
| 15...                                                                                     | 1405 | .76                                                  | .06                                       | .84                                       | .90                                                      | 1.7                                     | 7.3                                       | .30                                       | .19                                                | 2.0                                                 |
| 15...                                                                                     | 1925 | .70                                                  | .05                                       | .85                                       | .90                                                      | 1.6                                     | 7.1                                       | .27                                       | .19                                                | 1.7                                                 |
| 16...                                                                                     | 0200 | .62                                                  | .08                                       | .71                                       | .79                                                      | 1.4                                     | 6.2                                       | .25                                       | .09                                                | 1.7                                                 |
| 16...                                                                                     | 0725 | --                                                   | --                                        | --                                        | --                                                       | --                                      | --                                        | --                                        | --                                                 | 1.7                                                 |

ANALYSES OF SAMPLES COLLECTED DURING SHORT-TERM INTENSIVE STUDIES  
GREENWOOD AREA.--Continued

| DATE                                                                                      | TIME | TOTAL<br>RESI-<br>DUE<br>(MG/L) | LOSS<br>ON<br>IGNI-<br>TION<br>(MG/L) | CHLORO-<br>PHYLL A<br>(UG/L) | CHLORO-<br>PHYLL B<br>(UG/L) | SUS-<br>PENDE<br>SEDIM-<br>ENT<br>(MG/L) | SUS-<br>PENDE<br>SEDIM-<br>ENT<br>DIS-<br>CHARGE<br>(T/DAY) |
|-------------------------------------------------------------------------------------------|------|---------------------------------|---------------------------------------|------------------------------|------------------------------|------------------------------------------|-------------------------------------------------------------|
| 07241410 - TALLAHATCHIE R AB PEMBERTON CUT NR GREENWOOD, MS (LAT 33 31 58 LONG 090 14 17) |      |                                 |                                       |                              |                              |                                          |                                                             |
| MAY , 1974                                                                                |      |                                 |                                       |                              |                              |                                          |                                                             |
| 15...                                                                                     | 1310 | 468                             | 50                                    | 46                           | 23                           | 401                                      | 8030                                                        |
| 07241615 - TALLAHATCHIE RIVER AT GREENWOOD, MISS. (LAT 33 32 22 LONG 090 11 37)           |      |                                 |                                       |                              |                              |                                          |                                                             |
| MAY , 1974                                                                                |      |                                 |                                       |                              |                              |                                          |                                                             |
| 15...                                                                                     | 1330 | 1460                            | 91                                    | --                           | --                           | 83                                       | 117                                                         |
| 07241618 - TALLAHATCHIE R AB YALOHUSHA R AT GREENWOOD, MISS (LAT 33 33 03 LONG 090 10 55) |      |                                 |                                       |                              |                              |                                          |                                                             |
| MAY , 1974                                                                                |      |                                 |                                       |                              |                              |                                          |                                                             |
| 15...                                                                                     | 1315 | 414                             | 41                                    | --                           | --                           | 92                                       | 129                                                         |
| 07244600 - YALOHUSHA R AB BIG SAND C NH GREENWOOD, MISS. (LAT 33 33 43 LONG 090 10 04)    |      |                                 |                                       |                              |                              |                                          |                                                             |
| MAY , 1974                                                                                |      |                                 |                                       |                              |                              |                                          |                                                             |
| 15...                                                                                     | 1305 | 559                             | 34                                    | 24                           | 40                           | 383                                      | 1020                                                        |
| 07244955 - BIG SAND CREEK AT MOUTH NEAR GREENWOOD, MISS. (LAT 33 33 40 LONG 090 10 02)    |      |                                 |                                       |                              |                              |                                          |                                                             |
| MAY , 1974                                                                                |      |                                 |                                       |                              |                              |                                          |                                                             |
| 15...                                                                                     | 1300 | 480                             | 56                                    | 18                           | 8.6                          | 342                                      | 40                                                          |
| 07244965 - YALOHUSHA RIVER AT MOUTH NEAR GREENWOOD, MISS. (LAT 33 33 12 LONG 090 10 51)   |      |                                 |                                       |                              |                              |                                          |                                                             |
| MAY , 1974                                                                                |      |                                 |                                       |                              |                              |                                          |                                                             |
| 15...                                                                                     | 1245 | 459                             | 35                                    | 52                           | 99                           | 302                                      | 840                                                         |
| 07244975 - YAZOO R TR AB GRENADA JCT NR GREENWOOD, MISS. (LAT 33 32 40 LONG 090 10 03)    |      |                                 |                                       |                              |                              |                                          |                                                             |
| MAY , 1974                                                                                |      |                                 |                                       |                              |                              |                                          |                                                             |
| 15...                                                                                     | 1235 | 377                             | 50                                    | 39                           | 24                           | 130                                      | --                                                          |
| 07244985 - YAZOO R RL GRENADA JCT NR GREENWOOD, MISS. (LAT 33 31 38 LONG 090 10 23)       |      |                                 |                                       |                              |                              |                                          |                                                             |
| MAY , 1974                                                                                |      |                                 |                                       |                              |                              |                                          |                                                             |
| 15...                                                                                     | 1220 | 263                             | 30                                    | 16                           | 23                           | 148                                      | 623                                                         |
| 07247002 - YAZOO RIVER AT US49 BYPASS AT GREENWOOD, MISS. (LAT 33 31 08 LONG 090 12 12)   |      |                                 |                                       |                              |                              |                                          |                                                             |
| MAY , 1974                                                                                |      |                                 |                                       |                              |                              |                                          |                                                             |
| 15...                                                                                     | 1400 | 218                             | 30                                    | 42                           | 71                           | 157                                      | 657                                                         |
| 07247003 - EFFLUENT DRAIN AT FLEC PLANT AT GREENWOOD, MISS. (LAT 33 31 11 LONG 090 12 31) |      |                                 |                                       |                              |                              |                                          |                                                             |
| MAY , 1974                                                                                |      |                                 |                                       |                              |                              |                                          |                                                             |
| 15...                                                                                     | 1405 | 230                             | 38                                    | 21                           | 41                           | 150                                      | 6.3                                                         |
| 07247005 - YAZOO R AB PEMBERTON CUT NR GREENWOOD, MISS. (LAT 33 31 38 LONG 090 14 10)     |      |                                 |                                       |                              |                              |                                          |                                                             |
| MAY , 1974                                                                                |      |                                 |                                       |                              |                              |                                          |                                                             |
| 15...                                                                                     | 1245 | 356                             | 44                                    | 31                           | 30                           | 128                                      | 539                                                         |
| 07247010 - YAZOO RIVER AT FORT LURING, MISS. (LAT 33 30 12 LONG 090 15 02)                |      |                                 |                                       |                              |                              |                                          |                                                             |
| MAY , 1974                                                                                |      |                                 |                                       |                              |                              |                                          |                                                             |
| 15...                                                                                     | 1325 | 323                             | 44                                    | 43                           | 82                           | 247                                      | 5710                                                        |
| 07247020 - YAZOO R AB WALKER LK PUMP PLANT NR GREENWOOD, MS (LAT 33 29 06 LONG 090 13 44) |      |                                 |                                       |                              |                              |                                          |                                                             |
| MAY , 1974                                                                                |      |                                 |                                       |                              |                              |                                          |                                                             |
| 15...                                                                                     | 1340 | 504                             | 60                                    | --                           | --                           | 382                                      | 8970                                                        |
| 07247030 - YAZOO RIVER AB PELUCIA CREEK NR GREENWOOD, MISS. (LAT 33 27 49 LONG 090 13 21) |      |                                 |                                       |                              |                              |                                          |                                                             |
| MAY , 1974                                                                                |      |                                 |                                       |                              |                              |                                          |                                                             |
| 15...                                                                                     | 1350 | 408                             | 46                                    | 10                           | 4.0                          | 332                                      | 7980                                                        |
| 07247105 - PELUCIA CREEK AT MOUTH NEAR RISING SUN, MISS. (LAT 33 27 48 LONG 090 13 16)    |      |                                 |                                       |                              |                              |                                          |                                                             |
| MAY , 1974                                                                                |      |                                 |                                       |                              |                              |                                          |                                                             |
| 15...                                                                                     | 1355 | 227                             | 29                                    | 15                           | 17                           | 134                                      | 14                                                          |
| 07247115 - YAZOO RIVER AT WOFBUCK, MISS. (LAT 33 26 39 LONG 090 14 00)                    |      |                                 |                                       |                              |                              |                                          |                                                             |
| MAY , 1974                                                                                |      |                                 |                                       |                              |                              |                                          |                                                             |
| 15...                                                                                     | 1405 | 450                             | 46                                    | --                           | --                           | 444                                      | 10600                                                       |

## GREENWOOD AREA.--Continued

| DATE | TIME | ALDRIN<br>IN<br>BOTTOM<br>DE-<br>POSIT |         | CHLOR-<br>DANE<br>IN<br>BOTTOM<br>DE-<br>POSIT |         | DDU<br>IN<br>BOTTOM<br>DE-<br>POSIT |         | DDE<br>IN<br>BOTTOM<br>DE-<br>POSIT |         | DDT<br>IN<br>BOTTOM<br>DE-<br>POSIT |         |
|------|------|----------------------------------------|---------|------------------------------------------------|---------|-------------------------------------|---------|-------------------------------------|---------|-------------------------------------|---------|
|      |      | (UG/L)                                 | (UG/KG) | (UG/L)                                         | (UG/KG) | (UG/L)                              | (UG/KG) | (UG/L)                              | (UG/KG) | (UG/L)                              | (UG/KG) |

07281610 - TALLAHATCHIE R AB PEMBERTON CUT NR GREENWOOD, MS (LAT 33 31 58 LONG 090 14 17)

|            |       |      |     |    |    |   |     |     |     |     |     |     |
|------------|-------|------|-----|----|----|---|-----|-----|-----|-----|-----|-----|
| MAY , 1974 | 15... | 1310 | .00 | .0 | .0 | 0 | .00 | 9.6 | .00 | 2.3 | .00 | 6.1 |
|------------|-------|------|-----|----|----|---|-----|-----|-----|-----|-----|-----|

07286965 - YALOHUSHA RIVER AT MOUTH NEAR GREENWOOD, MISS. (LAT 33 33 12 LONG 090 10 51)

|            |       |      |     |    |    |   |     |     |     |    |     |     |
|------------|-------|------|-----|----|----|---|-----|-----|-----|----|-----|-----|
| MAY , 1974 | 15... | 1245 | .00 | .0 | .0 | 0 | .00 | 1.9 | .00 | .2 | .00 | 2.7 |
|------------|-------|------|-----|----|----|---|-----|-----|-----|----|-----|-----|

07287005 - YAZOO R AB PEMBERTON CUT NR GREENWOOD, MISS. (LAT 33 31 38 LONG 090 14 10)

|            |       |      |     |    |    |   |     |    |     |     |     |     |
|------------|-------|------|-----|----|----|---|-----|----|-----|-----|-----|-----|
| MAY , 1974 | 15... | 1245 | .00 | .0 | .0 | 0 | .00 | 28 | .00 | 1.3 | .00 | 9.4 |
|------------|-------|------|-----|----|----|---|-----|----|-----|-----|-----|-----|

07287115 - YAZOO RIVER AT ROEBUCK, MISS. (LAT 33 26 39 LONG 090 14 00)

|            |       |      |     |    |    |   |     |    |     |     |     |    |
|------------|-------|------|-----|----|----|---|-----|----|-----|-----|-----|----|
| MAY , 1974 | 15... | 1405 | .00 | .0 | .0 | 0 | .00 | 17 | .00 | 6.7 | .00 | .0 |
|------------|-------|------|-----|----|----|---|-----|----|-----|-----|-----|----|

| DATE | TIME | DI-<br>AZINON<br>IN<br>BOTTOM<br>DE-<br>POSIT |         | DI-<br>ELDRIN<br>IN<br>BOTTOM<br>DE-<br>POSIT |         | ENDRIN<br>IN<br>BOTTOM<br>DE-<br>POSIT |         | ETHION<br>IN<br>BOTTOM<br>DE-<br>POSIT |         | HEPTA-<br>CHLOR<br>IN<br>BOTTOM<br>DE-<br>POSIT |         |
|------|------|-----------------------------------------------|---------|-----------------------------------------------|---------|----------------------------------------|---------|----------------------------------------|---------|-------------------------------------------------|---------|
|      |      | (UG/L)                                        | (UG/KG) | (UG/L)                                        | (UG/KG) | (UG/L)                                 | (UG/KG) | (UG/L)                                 | (UG/KG) | (UG/L)                                          | (UG/KG) |

07281610 - TALLAHATCHIE R AB PEMBERTON CUT NR GREENWOOD, MS (LAT 33 31 58 LONG 090 14 17)

|            |       |      |     |    |     |    |     |    |     |    |     |    |
|------------|-------|------|-----|----|-----|----|-----|----|-----|----|-----|----|
| MAY , 1974 | 15... | 1310 | .00 | .0 | .00 | .1 | .00 | .0 | .00 | .0 | .00 | .0 |
|------------|-------|------|-----|----|-----|----|-----|----|-----|----|-----|----|

07286965 - YALOHUSHA RIVER AT MOUTH NEAR GREENWOOD, MISS. (LAT 33 33 12 LONG 090 10 51)

|            |       |      |     |    |     |    |     |    |     |    |     |    |
|------------|-------|------|-----|----|-----|----|-----|----|-----|----|-----|----|
| MAY , 1974 | 15... | 1245 | .00 | .0 | .00 | .0 | .00 | .0 | .00 | .0 | .00 | .0 |
|------------|-------|------|-----|----|-----|----|-----|----|-----|----|-----|----|

07287005 - YAZOO R AB PEMBERTON CUT NR GREENWOOD, MISS. (LAT 33 31 38 LONG 090 14 10)

|            |       |      |     |    |     |    |     |    |     |    |     |    |
|------------|-------|------|-----|----|-----|----|-----|----|-----|----|-----|----|
| MAY , 1974 | 15... | 1245 | .00 | .0 | .00 | .3 | .00 | .0 | .00 | .0 | .00 | .0 |
|------------|-------|------|-----|----|-----|----|-----|----|-----|----|-----|----|

07287115 - YAZOO RIVER AT ROEBUCK, MISS. (LAT 33 26 39 LONG 090 14 00)

|            |       |      |     |    |     |    |     |    |     |    |     |    |
|------------|-------|------|-----|----|-----|----|-----|----|-----|----|-----|----|
| MAY , 1974 | 15... | 1405 | .00 | .0 | .00 | .2 | .00 | .0 | .00 | .0 | .00 | .0 |
|------------|-------|------|-----|----|-----|----|-----|----|-----|----|-----|----|

| DATE | TIME | HEPTA-<br>CHLOR<br>EPOXIDE<br>IN BOT-<br>TOM DE-<br>POSIT |         | LINDANE<br>IN<br>BOTTOM<br>DE-<br>POSIT |         | MALA-<br>THION<br>IN<br>BOTTOM<br>DE-<br>POSIT |         | METHYL<br>PARA-<br>THION<br>IN BOT-<br>TOM DE-<br>POSIT |         | METHYL<br>TRI-<br>THION<br>IN BOT-<br>TOM DE-<br>POSIT |         |
|------|------|-----------------------------------------------------------|---------|-----------------------------------------|---------|------------------------------------------------|---------|---------------------------------------------------------|---------|--------------------------------------------------------|---------|
|      |      | (UG/L)                                                    | (UG/KG) | (UG/L)                                  | (UG/KG) | (UG/L)                                         | (UG/KG) | (UG/L)                                                  | (UG/KG) | (UG/L)                                                 | (UG/KG) |

07281610 - TALLAHATCHIE R AB PEMBERTON CUT NR GREENWOOD, MS (LAT 33 31 58 LONG 090 14 17)

|            |       |      |     |    |     |    |     |    |     |    |     |    |
|------------|-------|------|-----|----|-----|----|-----|----|-----|----|-----|----|
| MAY , 1974 | 15... | 1310 | .00 | .0 | .00 | .0 | .00 | .0 | .00 | .0 | .00 | .0 |
|------------|-------|------|-----|----|-----|----|-----|----|-----|----|-----|----|

07286965 - YALOHUSHA RIVER AT MOUTH NEAR GREENWOOD, MISS. (LAT 33 33 12 LONG 090 10 51)

|            |       |      |     |    |     |    |     |    |     |    |     |    |
|------------|-------|------|-----|----|-----|----|-----|----|-----|----|-----|----|
| MAY , 1974 | 15... | 1245 | .00 | .0 | .00 | .0 | .00 | .0 | .00 | .0 | .00 | .0 |
|------------|-------|------|-----|----|-----|----|-----|----|-----|----|-----|----|

07287005 - YAZOO R AB PEMBERTON CUT NR GREENWOOD, MISS. (LAT 33 31 38 LONG 090 14 10)

|            |       |      |     |    |     |    |     |    |     |    |     |    |
|------------|-------|------|-----|----|-----|----|-----|----|-----|----|-----|----|
| MAY , 1974 | 15... | 1245 | .00 | .0 | .00 | .0 | .00 | .0 | .00 | .0 | .00 | .0 |
|------------|-------|------|-----|----|-----|----|-----|----|-----|----|-----|----|

07287115 - YAZOO RIVER AT ROEBUCK, MISS. (LAT 33 26 39 LONG 090 14 00)

|            |       |      |     |    |     |    |     |    |     |    |     |    |
|------------|-------|------|-----|----|-----|----|-----|----|-----|----|-----|----|
| MAY , 1974 | 15... | 1405 | .00 | .0 | .00 | .0 | .00 | .0 | .00 | .0 | .00 | .0 |
|------------|-------|------|-----|----|-----|----|-----|----|-----|----|-----|----|

## ANALYSES OF SAMPLES COLLECTED DURING SHORT-TERM INTENSIVE STUDIES

## GREENWOOD AREA.--Continued

| DATE                                                                                      | TIME | PARA-<br>THION<br>IN<br>BOTTOM<br>DE-<br>POSIT<br>(UG/L) | PARA-<br>THION<br>IN<br>BOTTOM<br>DE-<br>POSIT<br>(UG/KG) | PCE<br>(UG/L) | PCE<br>IN<br>BOTTOM<br>DE-<br>POSIT<br>(UG/KG) | TOX-<br>APHENE<br>IN<br>BOTTOM<br>DE-<br>POSIT<br>(UG/L) | TOX-<br>APHENE<br>IN<br>BOTTOM<br>DE-<br>POSIT<br>(UG/KG) | TRI-<br>THION<br>IN<br>BOTTOM<br>DE-<br>POSIT<br>(UG/L) | TRI-<br>THION<br>IN<br>BOTTOM<br>DE-<br>POSIT<br>(UG/KG) | 2,4-D<br>IN<br>BOTTOM<br>DE-<br>POSIT<br>(UG/L) | 2,4-D<br>IN<br>BOTTOM<br>DE-<br>POSIT<br>(UG/KG) |
|-------------------------------------------------------------------------------------------|------|----------------------------------------------------------|-----------------------------------------------------------|---------------|------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|
| 07281610 - TALLAHATCHIE R AB PEMBERTON CUT NR GREENWOOD, MS (LAT 33 31 58 LONG 090 14 17) |      |                                                          |                                                           |               |                                                |                                                          |                                                           |                                                         |                                                          |                                                 |                                                  |
| MAY , 1974<br>15...                                                                       | 1310 | .00                                                      | .0                                                        | .0            | 0                                              | 0                                                        | 0                                                         | .00                                                     | .0                                                       | --                                              | 0                                                |
| 07286965 - YALOBUSHA RIVER AT MOUTH NEAR GREENWOOD, MISS. (LAT 33 33 12 LONG 090 10 51)   |      |                                                          |                                                           |               |                                                |                                                          |                                                           |                                                         |                                                          |                                                 |                                                  |
| MAY , 1974<br>15...                                                                       | 1245 | .00                                                      | .0                                                        | .0            | 0                                              | 0                                                        | 0                                                         | .00                                                     | .0                                                       | .00                                             | 0                                                |
| 07287005 - YAZOO R AB PEMBERTON CUT NR GREENWOOD, MISS. (LAT 33 31 38 LONG 090 14 10)     |      |                                                          |                                                           |               |                                                |                                                          |                                                           |                                                         |                                                          |                                                 |                                                  |
| MAY , 1974<br>15...                                                                       | 1245 | .00                                                      | .0                                                        | .0            | 0                                              | 0                                                        | 0                                                         | .00                                                     | .0                                                       | .00                                             | 0                                                |
| 07287115 - YAZOO RIVER AT ROEBUCK, MISS. (LAT 33 26 39 LONG 090 14 00)                    |      |                                                          |                                                           |               |                                                |                                                          |                                                           |                                                         |                                                          |                                                 |                                                  |
| MAY , 1974<br>15...                                                                       | 1405 | .00                                                      | .0                                                        | .0            | 0                                              | 0                                                        | 0                                                         | .00                                                     | .0                                                       | .00                                             | 0                                                |

| DATE                                                                                      | TIME | 2,4,5-T<br>IN<br>BOTTOM<br>DE-<br>POSIT<br>(UG/L) | 2,4,5-T<br>IN<br>BOTTOM<br>DE-<br>POSIT<br>(UG/KG) | SILVEX<br>IN<br>BOTTOM<br>DE-<br>POSIT<br>(UG/L) | SILVEX<br>IN<br>BOTTOM<br>DE-<br>POSIT<br>(UG/KG) |
|-------------------------------------------------------------------------------------------|------|---------------------------------------------------|----------------------------------------------------|--------------------------------------------------|---------------------------------------------------|
| 07281610 - TALLAHATCHIE R AB PEMBERTON CUT NR GREENWOOD, MS (LAT 33 31 58 LONG 090 14 17) |      |                                                   |                                                    |                                                  |                                                   |
| MAY , 1974<br>15...                                                                       | 1310 | --                                                | 0                                                  | --                                               | 0                                                 |
| 07286965 - YALOBUSHA RIVER AT MOUTH NEAR GREENWOOD, MISS. (LAT 33 33 12 LONG 090 10 51)   |      |                                                   |                                                    |                                                  |                                                   |
| MAY , 1974<br>15...                                                                       | 1245 | .00                                               | 0                                                  | .00                                              | 0                                                 |
| 07287005 - YAZOO R AB PEMBERTON CUT NR GREENWOOD, MISS. (LAT 33 31 38 LONG 090 14 10)     |      |                                                   |                                                    |                                                  |                                                   |
| MAY , 1974<br>15...                                                                       | 1245 | .01                                               | 0                                                  | .00                                              | 0                                                 |
| 07287115 - YAZOO RIVER AT ROEBUCK, MISS. (LAT 33 26 39 LONG 090 14 00)                    |      |                                                   |                                                    |                                                  |                                                   |
| MAY , 1974<br>15...                                                                       | 1405 | .00                                               | 0                                                  | .00                                              | 0                                                 |



## CLARKSDALE AREA

An intensive study of the quality of surface waters in the Clarksdale area was conducted July 29 to Aug. 2, 1974. Samples were obtained at 10 sites on the Sunflower River and its tributaries. Listed below are site locations and results of laboratory analyses and field determinations of water quality during the study.

| DATE | TIME | SPE-<br>CIFIC<br>CON-<br>DUCTI-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|------|------|-------------------------------------------------------------|---------------|-----------------------------|------------------------------------|
|------|------|-------------------------------------------------------------|---------------|-----------------------------|------------------------------------|

## 07288000 - BIG SUNFLOWER RIVER AT CLARKSDALE, MISS. (LAT 34 11 50 LONG 090 34 30)

## JULY, 1974

|       |      |     |     |      |     |
|-------|------|-----|-----|------|-----|
| 31... | 0620 | 360 | 7.3 | 26.6 | 4.4 |
| 31... | 0915 | 400 | 7.4 | 25.8 | 3.7 |
| 31... | 1215 | 350 | 7.3 | 26.4 | 4.0 |
| 31... | 1515 | 370 | 7.3 | 27.0 | 3.4 |
| 31... | 1830 | 400 | 7.3 | 27.2 | 3.1 |
| 31... | 2115 | 400 | 7.4 | 27.0 | 3.3 |

## AUG.

|       |      |     |     |      |     |
|-------|------|-----|-----|------|-----|
| 01... | 0020 | 400 | 7.4 | 26.0 | 3.4 |
| 01... | 0320 | 370 | 7.3 | 26.0 | 3.1 |

## 07288003 - SEWAGE DISPOSAL DITCH NEAR CLARKSDALE, MISS. (LAT 34 11 04 LONG 090 34 28)

## JULY, 1974

|       |      |     |     |    |    |
|-------|------|-----|-----|----|----|
| 31... | 0650 | 800 | 7.3 | -- | -- |
| 31... | 0930 | 800 | 7.3 | -- | -- |
| 31... | 1200 | 800 | 7.3 | -- | -- |
| 31... | 1500 | 800 | 7.5 | -- | -- |
| 31... | 1800 | 800 | 7.5 | -- | -- |
| 31... | 2105 | 800 | 7.5 | -- | -- |

## AUG.

|       |      |     |     |    |    |
|-------|------|-----|-----|----|----|
| 01... | 0005 | 800 | 7.5 | -- | -- |
| 01... | 0310 | 800 | 7.4 | -- | -- |

## ANALYSES OF SAMPLES COLLECTED DURING SHORT-TERM INTENSIVE STUDIES

## CLARKSDALE AREA.--Continued

| DATE                                                                              | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-----------------------------------------------------------------------------------|------|-----------------------------------------------------------|---------------|-----------------------------|------------------------------------|
| 07244010 - BIG SUNFLOWER RIVER AT HOPSON SPUR, MISS. (LAT 34 09 24 LONG 90 32 58) |      |                                                           |               |                             |                                    |
| JULY, 1974                                                                        |      |                                                           |               |                             |                                    |
| 30...                                                                             | 0600 | --                                                        | --            | 26.9                        | 3.6                                |
| 30...                                                                             | 0700 | --                                                        | --            | 26.9                        | 3.5                                |
| 30...                                                                             | 0800 | --                                                        | --            | 27.0                        | 3.4                                |
| 30...                                                                             | 0900 | --                                                        | --            | 27.1                        | 3.4                                |
| 30...                                                                             | 1000 | --                                                        | --            | 27.0                        | 3.3                                |
| 30...                                                                             | 1100 | --                                                        | --            | 27.4                        | 2.7                                |
| 30...                                                                             | 1200 | --                                                        | --            | 27.4                        | 2.7                                |
| 30...                                                                             | 1300 | --                                                        | --            | 27.5                        | 1.8                                |
| 30...                                                                             | 1400 | --                                                        | --            | 27.8                        | 1.9                                |
| 30...                                                                             | 1500 | --                                                        | --            | 28.0                        | 1.9                                |
| 30...                                                                             | 1600 | --                                                        | --            | 28.2                        | 2.3                                |
| 30...                                                                             | 1700 | --                                                        | --            | 28.8                        | 2.9                                |
| 30...                                                                             | 1800 | --                                                        | --            | 29.0                        | 2.9                                |
| 30...                                                                             | 1900 | --                                                        | --            | 29.0                        | 3.1                                |
| 30...                                                                             | 2000 | --                                                        | --            | 29.0                        | 3.3                                |
| 30...                                                                             | 2100 | --                                                        | --            | 28.6                        | 2.8                                |
| 30...                                                                             | 2200 | --                                                        | --            | 28.3                        | 2.1                                |
| 30...                                                                             | 2300 | --                                                        | --            | 28.0                        | 2.0                                |
| 30...                                                                             | 0100 | --                                                        | --            | 27.8                        | 2.1                                |
| 31...                                                                             | 0100 | --                                                        | --            | 27.8                        | 2.1                                |
| 31...                                                                             | 0200 | --                                                        | --            | 27.8                        | 2.2                                |
| 31...                                                                             | 0300 | --                                                        | --            | 27.2                        | 2.5                                |
| 31...                                                                             | 0400 | --                                                        | --            | 27.0                        | 2.6                                |
| 31...                                                                             | 0500 | --                                                        | --            | 27.0                        | 2.7                                |
| 31...                                                                             | 0700 | 450                                                       | 7.2           | 26.2                        | 3.6                                |
| 31...                                                                             | 0800 | --                                                        | --            | 26.4                        | 3.3                                |
| 31...                                                                             | 0900 | 440                                                       | 7.3           | 26.6                        | 3.3                                |
| 31...                                                                             | 1000 | --                                                        | --            | 26.6                        | 3.4                                |
| 31...                                                                             | 1100 | --                                                        | --            | 26.6                        | 3.5                                |
| 31...                                                                             | 1200 | 440                                                       | 7.3           | 26.6                        | 3.4                                |
| 31...                                                                             | 1310 | --                                                        | --            | 28.2                        | 3.6                                |
| 31...                                                                             | 1415 | --                                                        | --            | 28.2                        | 3.9                                |
| 31...                                                                             | 1445 | 420                                                       | 7.3           | 28.0                        | 3.9                                |
| 31...                                                                             | 1600 | --                                                        | --            | 28.8                        | 4.0                                |
| 31...                                                                             | 1700 | --                                                        | --            | 29.0                        | 4.2                                |
| 31...                                                                             | 1740 | 450                                                       | 7.4           | 29.0                        | 4.2                                |
| 31...                                                                             | 1900 | --                                                        | --            | 29.0                        | 4.1                                |
| 31...                                                                             | 2000 | --                                                        | --            | 28.8                        | 3.9                                |
| 31...                                                                             | 2100 | 500                                                       | 7.3           | 28.4                        | 3.8                                |
| 31...                                                                             | 2230 | --                                                        | --            | 28.0                        | 3.9                                |
| 31...                                                                             | 2300 | --                                                        | --            | 28.0                        | 3.6                                |
| 31...                                                                             | 2400 | 500                                                       | 7.4           | 28.0                        | 3.5                                |
| AUG.                                                                              |      |                                                           |               |                             |                                    |
| 01...                                                                             | 0130 | --                                                        | --            | 27.1                        | 3.6                                |
| 01...                                                                             | 0200 | --                                                        | --            | 27.1                        | 3.1                                |
| 01...                                                                             | 0300 | 500                                                       | 7.4           | 27.1                        | 3.0                                |
| 01...                                                                             | 0430 | --                                                        | --            | 26.5                        | 3.0                                |
| 01...                                                                             | 0500 | --                                                        | --            | 26.4                        | 2.8                                |
| 01...                                                                             | 0600 | --                                                        | --            | 26.2                        | 2.7                                |
| 01...                                                                             | 0715 | --                                                        | --            | 25.6                        | 2.8                                |
| 01...                                                                             | 0800 | --                                                        | --            | 25.8                        | 2.7                                |
| 01...                                                                             | 0900 | --                                                        | --            | 25.8                        | 2.8                                |
| 01...                                                                             | 1000 | --                                                        | --            | 25.8                        | 2.8                                |
| 01...                                                                             | 1100 | --                                                        | --            | 26.0                        | 2.9                                |
| 01...                                                                             | 1200 | --                                                        | --            | 26.6                        | 3.1                                |
| 01...                                                                             | 1300 | --                                                        | --            | 27.2                        | 3.2                                |
| 01...                                                                             | 1355 | --                                                        | --            | 28.0                        | 3.5                                |
| 01...                                                                             | 1505 | --                                                        | --            | 28.6                        | 3.9                                |
| 01...                                                                             | 1605 | --                                                        | --            | 29.0                        | 4.0                                |
| 01...                                                                             | 1700 | --                                                        | --            | 29.2                        | 4.0                                |
| 01...                                                                             | 1800 | --                                                        | --            | 29.4                        | 4.1                                |
| 01...                                                                             | 1900 | --                                                        | --            | 29.4                        | 4.0                                |
| 01...                                                                             | 2000 | --                                                        | --            | 29.2                        | 3.9                                |
| 01...                                                                             | 2100 | --                                                        | --            | 28.6                        | 3.9                                |
| 01...                                                                             | 2200 | --                                                        | --            | 28.8                        | 3.7                                |
| 01...                                                                             | 2300 | --                                                        | --            | 28.0                        | 3.4                                |
| 01...                                                                             | 2400 | --                                                        | --            | 28.0                        | 3.2                                |
| 07244036 - BIG SUNFLOWER RIVER NEAR MATTSO, MISS. (LAT 34 06 08 LONG 90 33 57)    |      |                                                           |               |                             |                                    |
| JULY, 1974                                                                        |      |                                                           |               |                             |                                    |
| 31...                                                                             | 0750 | 350                                                       | 7.3           | 27.0                        | 3.4                                |
| 31...                                                                             | 0915 | 350                                                       | 7.3           | 27.0                        | 3.3                                |
| 31...                                                                             | 1040 | 360                                                       | 7.4           | 29.5                        | 4.7                                |
| 31...                                                                             | 1200 | 340                                                       | 7.5           | 29.5                        | 6.5                                |
| 31...                                                                             | 1355 | 370                                                       | 7.6           | 29.0                        | 7.0                                |
| 31...                                                                             | 2210 | 370                                                       | 7.4           | 28.0                        | 4.7                                |
| AUG.                                                                              |      |                                                           |               |                             |                                    |
| 01...                                                                             | 0100 | 400                                                       | 7.3           | 27.3                        | 2.5                                |
| 01...                                                                             | 0410 | 400                                                       | 7.3           | 27.0                        | 2.1                                |

## CLARKSDALE AREA.--Continued

| DATE                                                                                  | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------------------------------------------------------------------------------|------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|
| 07288070 - HARRIS BAYOU NEAR COUNTS, MISS. (LAT 34 05 06 LONG 090 34 54)              |      |                                                            |               |                             |                                    |
| JULY, 1974                                                                            |      |                                                            |               |                             |                                    |
| 31...                                                                                 | 0735 | 330                                                        | 7.5           | 26.0                        | 5.8                                |
| 31...                                                                                 | 0700 | 330                                                        | 7.6           | 26.0                        | 5.9                                |
| 31...                                                                                 | 1315 | 330                                                        | 7.5           | 26.0                        | 6.1                                |
| 31...                                                                                 | 1540 | 330                                                        | 7.5           | 26.5                        | 6.1                                |
| 31...                                                                                 | 1830 | 350                                                        | 7.6           | 27.0                        | 5.9                                |
| 31...                                                                                 | 2155 | 350                                                        | 7.6           | 26.5                        | 5.6                                |
| AUG.                                                                                  |      |                                                            |               |                             |                                    |
| 01...                                                                                 | 0050 | 350                                                        | 7.6           | 26.2                        | 5.6                                |
| 01...                                                                                 | 0400 | 350                                                        | 7.6           | 25.5                        | 5.4                                |
| 07288080 - BIG SUNFLOWER RIVER AT HARVEYS CHAPEL, MISS. (LAT 34 03 52 LONG 090 35 22) |      |                                                            |               |                             |                                    |
| JULY, 1974                                                                            |      |                                                            |               |                             |                                    |
| 31...                                                                                 | 0715 | 300                                                        | 7.4           | 27.0                        | 4.2                                |
| 31...                                                                                 | 0845 | 300                                                        | 7.4           | 27.0                        | 4.2                                |
| 31...                                                                                 | 1250 | 300                                                        | 7.4           | 27.0                        | 4.2                                |
| 31...                                                                                 | 1510 | 300                                                        | 7.4           | 27.5                        | 4.0                                |
| 31...                                                                                 | 1810 | 300                                                        | 7.4           | 28.0                        | 4.1                                |
| 31...                                                                                 | 2140 | 320                                                        | 7.4           | 27.9                        | 3.8                                |
| AUG.                                                                                  |      |                                                            |               |                             |                                    |
| 01...                                                                                 | 0040 | 320                                                        | 7.4           | 27.0                        | 4.0                                |
| 01...                                                                                 | 0340 | 330                                                        | 7.4           | 26.3                        | 3.9                                |
| 07288095 - BIG SUNFLOWER RIVER NEAR HOUNDARAY, MISS. (LAT 34 01 05 LONG 090 38 18)    |      |                                                            |               |                             |                                    |
| JULY, 1974                                                                            |      |                                                            |               |                             |                                    |
| 30...                                                                                 | 0645 | --                                                         | --            | 29.0                        | 4.3                                |
| 30...                                                                                 | 0700 | --                                                         | --            | 29.0                        | 4.3                                |
| 30...                                                                                 | 0800 | --                                                         | --            | 29.0                        | 4.4                                |
| 30...                                                                                 | 0900 | --                                                         | --            | 28.5                        | 4.1                                |
| 30...                                                                                 | 1000 | --                                                         | --            | 28.5                        | 4.3                                |
| 30...                                                                                 | 1100 | --                                                         | --            | 28.5                        | 4.2                                |
| 30...                                                                                 | 1200 | --                                                         | --            | 29.0                        | 4.3                                |
| 30...                                                                                 | 1300 | --                                                         | --            | 28.5                        | 4.4                                |
| 30...                                                                                 | 1400 | --                                                         | --            | 29.0                        | 4.4                                |
| 30...                                                                                 | 1500 | --                                                         | --            | 29.0                        | 4.2                                |
| 30...                                                                                 | 1600 | --                                                         | --            | 29.0                        | 4.3                                |
| 30...                                                                                 | 1700 | --                                                         | --            | 29.0                        | 4.4                                |
| 30...                                                                                 | 1800 | --                                                         | --            | 29.0                        | 4.4                                |
| 30...                                                                                 | 1900 | --                                                         | --            | 29.0                        | 4.4                                |
| 30...                                                                                 | 2000 | --                                                         | --            | 29.0                        | 4.4                                |
| 30...                                                                                 | 2100 | --                                                         | --            | 29.0                        | 4.4                                |
| 30...                                                                                 | 2200 | --                                                         | --            | 29.0                        | 4.4                                |
| 30...                                                                                 | 2230 | --                                                         | --            | 29.0                        | 4.4                                |
| 30...                                                                                 | 2300 | --                                                         | --            | 29.0                        | 4.4                                |
| 30...                                                                                 | 2400 | --                                                         | --            | 28.5                        | 4.4                                |
| 31...                                                                                 | 0100 | --                                                         | --            | 28.5                        | 4.4                                |
| 31...                                                                                 | 0200 | --                                                         | --            | 28.5                        | 4.4                                |
| 31...                                                                                 | 0300 | --                                                         | --            | 28.0                        | 4.4                                |
| 31...                                                                                 | 0400 | --                                                         | --            | 28.0                        | 4.4                                |
| 31...                                                                                 | 0500 | --                                                         | --            | 28.0                        | 4.4                                |
| 31...                                                                                 | 0600 | 300                                                        | 7.4           | --                          | 4.5                                |
| 31...                                                                                 | 0810 | 300                                                        | 7.4           | 28.0                        | 4.7                                |
| 31...                                                                                 | 1000 | --                                                         | --            | 27.0                        | 4.8                                |
| 31...                                                                                 | 1100 | --                                                         | --            | 27.0                        | 4.8                                |
| 31...                                                                                 | 1200 | 300                                                        | 7.4           | 27.0                        | 4.9                                |
| 31...                                                                                 | 1300 | --                                                         | --            | 27.0                        | 4.9                                |
| 31...                                                                                 | 1430 | --                                                         | --            | 28.0                        | 4.7                                |
| 31...                                                                                 | 1500 | 300                                                        | 7.5           | 28.0                        | 4.7                                |
| 31...                                                                                 | 1600 | --                                                         | --            | 28.0                        | 4.4                                |
| 31...                                                                                 | 1700 | --                                                         | --            | 28.0                        | 4.4                                |
| 31...                                                                                 | 1800 | 310                                                        | 7.4           | 28.0                        | 4.4                                |
| 31...                                                                                 | 1900 | --                                                         | --            | 28.0                        | 4.4                                |
| 31...                                                                                 | 2000 | --                                                         | --            | 28.0                        | 4.4                                |
| 31...                                                                                 | 2100 | 330                                                        | 7.5           | 28.0                        | 4.2                                |
| 31...                                                                                 | 2200 | --                                                         | --            | 28.0                        | 4.2                                |
| 31...                                                                                 | 2300 | --                                                         | --            | 28.0                        | 4.2                                |
| 31...                                                                                 | 2400 | 330                                                        | 7.5           | 28.0                        | 4.2                                |
| AUG.                                                                                  |      |                                                            |               |                             |                                    |
| 01...                                                                                 | 0100 | --                                                         | --            | 28.0                        | 4.1                                |
| 01...                                                                                 | 0200 | --                                                         | --            | 27.5                        | 3.9                                |
| 01...                                                                                 | 0300 | 320                                                        | 7.5           | 27.0                        | 3.9                                |
| 01...                                                                                 | 0400 | --                                                         | --            | 27.0                        | 4.0                                |
| 01...                                                                                 | 0500 | --                                                         | --            | 27.0                        | 4.0                                |
| 01...                                                                                 | 0600 | --                                                         | --            | 27.0                        | 3.9                                |
| 01...                                                                                 | 0700 | --                                                         | --            | 27.0                        | 3.9                                |
| 01...                                                                                 | 0800 | --                                                         | --            | 27.0                        | 3.9                                |
| 01...                                                                                 | 0900 | --                                                         | --            | 27.0                        | 3.9                                |
| 01...                                                                                 | 1000 | --                                                         | --            | 27.0                        | 3.9                                |
| 01...                                                                                 | 1100 | --                                                         | --            | 27.0                        | 3.9                                |
| 01...                                                                                 | 1200 | --                                                         | --            | 27.0                        | 3.9                                |
| 01...                                                                                 | 1400 | --                                                         | --            | 27.0                        | 4.0                                |
| 01...                                                                                 | 1500 | --                                                         | --            | 27.5                        | 4.0                                |
| 01...                                                                                 | 1600 | --                                                         | --            | 28.0                        | 4.1                                |
| 01...                                                                                 | 1700 | --                                                         | --            | 28.0                        | 4.0                                |
| 01...                                                                                 | 1800 | --                                                         | --            | 28.0                        | 4.0                                |
| 01...                                                                                 | 1900 | --                                                         | --            | 28.0                        | 4.1                                |
| 01...                                                                                 | 2000 | --                                                         | --            | 28.0                        | 4.0                                |
| 01...                                                                                 | 2100 | --                                                         | --            | 28.0                        | 4.1                                |
| 01...                                                                                 | 2200 | --                                                         | --            | 28.0                        | 4.0                                |
| 01...                                                                                 | 2300 | --                                                         | --            | 28.0                        | 3.9                                |
| 01...                                                                                 | 2400 | --                                                         | --            | 28.0                        | 3.8                                |

## ANALYSES OF SAMPLES COLLECTED DURING SHORT-TERM INTENSIVE STUDIES

## CLARKSDALE AREA.--Continued

| DATE                                                                              | TIME | SPECIFIC<br>CONDUCTANCE<br>(MICROMHOS) | PH<br>(UNITS) | TEMPERATURE<br>(DEG C) | DISSOLVED<br>OXYGEN<br>(MG/L) |
|-----------------------------------------------------------------------------------|------|----------------------------------------|---------------|------------------------|-------------------------------|
| 07288170 - HUSHPUCKENA RIVER NEAR BALTZER, MISS. (LAT 33 58 18 LONG 090 40 20)    |      |                                        |               |                        |                               |
| JULY, 1974                                                                        |      |                                        |               |                        |                               |
| 31...                                                                             | 0640 | 310                                    | 7.5           | 27.0                   | 5.5                           |
| 31...                                                                             | 0910 | 310                                    | 7.5           | 27.0                   | 4.7                           |
| 31...                                                                             | 1305 | 330                                    | 7.5           | 27.5                   | 5.0                           |
| 31...                                                                             | 1545 | 330                                    | 7.5           | 29.0                   | 4.3                           |
| 31...                                                                             | 2015 | 290                                    | 7.5           | 28.0                   | 5.1                           |
| 31...                                                                             | 2300 | 280                                    | 7.5           | 28.0                   | 5.4                           |
| AUG.                                                                              |      |                                        |               |                        |                               |
| 01...                                                                             | 0135 | 300                                    | 7.5           | 27.0                   | 5.4                           |
| 01...                                                                             | 0405 | 280                                    | 7.5           | 26.5                   | 5.3                           |
| 07288185 - BLACK BAYOU AT BALTZER, MISS. (LAT 33 59 00 LONG 090 35 39)            |      |                                        |               |                        |                               |
| JULY, 1974                                                                        |      |                                        |               |                        |                               |
| 31...                                                                             | 0700 | 400                                    | 8.0           | 26.0                   | 4.9                           |
| 31...                                                                             | 1010 | 400                                    | 8.0           | 26.0                   | 5.1                           |
| 31...                                                                             | 1215 | 400                                    | 8.4           | 26.0                   | 6.1                           |
| 31...                                                                             | 1515 | 400                                    | 8.6           | 26.0                   | 13.5                          |
| 31...                                                                             | 1815 | 400                                    | 8.7           | 27.0                   | 17.0                          |
| 31...                                                                             | 2045 | 440                                    | 8.6           | 28.0                   | 13.3                          |
| 31...                                                                             | 2345 | 440                                    | 8.3           | 27.0                   | 7.4                           |
| AUG.                                                                              |      |                                        |               |                        |                               |
| 01...                                                                             | 0245 | 440                                    | 8.0           | 26.0                   | 4.7                           |
| 07288190 - BIG SUNFLOWER RIVER NEAR BALTZER, MISS. (LAT 33 57 04 LONG 090 37 38)  |      |                                        |               |                        |                               |
| JULY, 1974                                                                        |      |                                        |               |                        |                               |
| 31...                                                                             | 0730 | 330                                    | 7.2           | 28.0                   | 5.0                           |
| 31...                                                                             | 0945 | 330                                    | 7.3           | 27.5                   | 4.9                           |
| 31...                                                                             | 1330 | 330                                    | 7.3           | 28.0                   | 4.9                           |
| 31...                                                                             | 1620 | 330                                    | 7.3           | 29.0                   | 5.0                           |
| 31...                                                                             | 2040 | 310                                    | 7.5           | 28.5                   | 5.7                           |
| 31...                                                                             | 2320 | 310                                    | 7.6           | 28.0                   | 5.8                           |
| AUG.                                                                              |      |                                        |               |                        |                               |
| 01...                                                                             | 0155 | 310                                    | 7.6           | 28.0                   | 5.7                           |
| 01...                                                                             | 0425 | 310                                    | 7.6           | 28.0                   | 5.5                           |
| 07288200 - BIG SUNFLOWER RIVER NEAR LOMBARDY, MISS. (LAT 33 52 54 LONG 090 36 38) |      |                                        |               |                        |                               |
| JULY, 1974                                                                        |      |                                        |               |                        |                               |
| 31...                                                                             | 0755 | 340                                    | 7.4           | 28.0                   | 4.3                           |
| 31...                                                                             | 1045 | 340                                    | 7.4           | 27.0                   | 4.3                           |
| 31...                                                                             | 1400 | 340                                    | 7.3           | 28.0                   | 4.5                           |
| 31...                                                                             | 1700 | 340                                    | 7.4           | 29.0                   | 4.8                           |
| 31...                                                                             | 2100 | 340                                    | 7.5           | 28.0                   | 5.4                           |
| 31...                                                                             | 2340 | 350                                    | 7.5           | 28.0                   | 5.3                           |
| AUG.                                                                              |      |                                        |               |                        |                               |
| 01...                                                                             | 0210 | 350                                    | 7.5           | 28.0                   | 5.2                           |
| 01...                                                                             | 0450 | 350                                    | 7.5           | 28.0                   | 5.0                           |

## CLARKSDALE AREA.--Continued

| DATE                                                                                  | TOTAL<br>NITRATE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(P)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>ORTHO<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) |
|---------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------------|-----------------------------------------|--------------------------------------------------|-------------------------------------------|----------------------------------------------------|-----------------------------------------------------|
| 07288000 - BIG SUNFLOWER RIVER AT CLARKSDALE, MISS. (LAT 34 11 50 LONG 090 34 30)     |                                                      |                                           |                                           |                                                          |                                         |                                                  |                                           |                                                    |                                                     |
| JULY, 1974                                                                            |                                                      |                                           |                                           |                                                          |                                         |                                                  |                                           |                                                    |                                                     |
| 31-31                                                                                 | .35                                                  | .40                                       | .60                                       | 1.0                                                      | 1.4                                     | 6.0                                              | .33                                       | .17                                                | 3.5                                                 |
| AUG.                                                                                  |                                                      |                                           |                                           |                                                          |                                         |                                                  |                                           |                                                    |                                                     |
| 01-01                                                                                 | .35                                                  | .40                                       | .60                                       | 1.0                                                      | 1.4                                     | 6.0                                              | .33                                       | .17                                                | 3.5                                                 |
| 07288003 - SEWAGE DISPOSAL DITCH NEAR CLARKSDALE, MISS. (LAT 34 11 04 LONG 090 34 28) |                                                      |                                           |                                           |                                                          |                                         |                                                  |                                           |                                                    |                                                     |
| JULY, 1974                                                                            |                                                      |                                           |                                           |                                                          |                                         |                                                  |                                           |                                                    |                                                     |
| 31-31                                                                                 | 1.2                                                  | 13                                        | 4.0                                       | 17                                                       | 18                                      | 81                                               | 8.5                                       | 8.2                                                | 5.5                                                 |
| AUG.                                                                                  |                                                      |                                           |                                           |                                                          |                                         |                                                  |                                           |                                                    |                                                     |
| 01-01                                                                                 | 1.2                                                  | 13                                        | 4.0                                       | 17                                                       | 18                                      | 81                                               | 8.5                                       | 8.2                                                | 5.5                                                 |
| 07288010 - BIG SUNFLOWER RIVER AT HOPSON SPUR, MISS. (LAT 34 09 24 LONG 090 32 58)    |                                                      |                                           |                                           |                                                          |                                         |                                                  |                                           |                                                    |                                                     |
| JULY, 1974                                                                            |                                                      |                                           |                                           |                                                          |                                         |                                                  |                                           |                                                    |                                                     |
| 31-31                                                                                 | .38                                                  | 1.0                                       | 1.1                                       | 2.1                                                      | 2.5                                     | 11                                               | .55                                       | .42                                                | 2.5                                                 |
| AUG.                                                                                  |                                                      |                                           |                                           |                                                          |                                         |                                                  |                                           |                                                    |                                                     |
| 01-01                                                                                 | .38                                                  | 1.0                                       | 1.1                                       | 2.1                                                      | 2.5                                     | 11                                               | .55                                       | .42                                                | 2.5                                                 |
| 07288036 - BIG SUNFLOWER RIVER NEAR MATTSO, MISS. (LAT 34 06 08 LONG 090 33 57)       |                                                      |                                           |                                           |                                                          |                                         |                                                  |                                           |                                                    |                                                     |
| JULY, 1974                                                                            |                                                      |                                           |                                           |                                                          |                                         |                                                  |                                           |                                                    |                                                     |
| 31-31                                                                                 | .73                                                  | .91                                       | .99                                       | 1.9                                                      | 2.6                                     | 12                                               | .37                                       | .18                                                | 4.8                                                 |
| AUG.                                                                                  |                                                      |                                           |                                           |                                                          |                                         |                                                  |                                           |                                                    |                                                     |
| 01-01                                                                                 | .73                                                  | .91                                       | .99                                       | 1.9                                                      | 2.6                                     | 12                                               | .37                                       | .18                                                | 4.8                                                 |
| 07288070 - HARRIS BAYOU NEAR COUNTS, MISS. (LAT 34 05 06 LONG 090 34 54)              |                                                      |                                           |                                           |                                                          |                                         |                                                  |                                           |                                                    |                                                     |
| JULY, 1974                                                                            |                                                      |                                           |                                           |                                                          |                                         |                                                  |                                           |                                                    |                                                     |
| 31-31                                                                                 | .94                                                  | .92                                       | 2.2                                       | 3.1                                                      | 4.0                                     | 18                                               | .25                                       | .14                                                | 7.3                                                 |
| AUG.                                                                                  |                                                      |                                           |                                           |                                                          |                                         |                                                  |                                           |                                                    |                                                     |
| 01-01                                                                                 | .94                                                  | .92                                       | 2.2                                       | 3.1                                                      | 4.0                                     | 18                                               | .25                                       | .14                                                | 7.3                                                 |
| 07288090 - BIG SUNFLOWER RIVER AT HARVEYS CHAPEL, MISS. (LAT 34 03 52 LONG 090 35 22) |                                                      |                                           |                                           |                                                          |                                         |                                                  |                                           |                                                    |                                                     |
| JULY, 1974                                                                            |                                                      |                                           |                                           |                                                          |                                         |                                                  |                                           |                                                    |                                                     |
| 31-31                                                                                 | 1.1                                                  | .66                                       | 1.5                                       | 2.2                                                      | 3.3                                     | 15                                               | .13                                       | .15                                                | 5.7                                                 |
| AUG.                                                                                  |                                                      |                                           |                                           |                                                          |                                         |                                                  |                                           |                                                    |                                                     |
| 01-01                                                                                 | 1.1                                                  | .66                                       | 1.5                                       | 2.2                                                      | 3.3                                     | 15                                               | .13                                       | .15                                                | 5.7                                                 |
| 07288095 - BIG SUNFLOWER RIVER NEAR HOUNDWAY, MISS. (LAT 34 01 05 LONG 090 38 18)     |                                                      |                                           |                                           |                                                          |                                         |                                                  |                                           |                                                    |                                                     |
| JULY, 1974                                                                            |                                                      |                                           |                                           |                                                          |                                         |                                                  |                                           |                                                    |                                                     |
| 31-31                                                                                 | 1.1                                                  | .66                                       | .84                                       | 1.5                                                      | 2.6                                     | 12                                               | .15                                       | .17                                                | 2.6                                                 |
| AUG.                                                                                  |                                                      |                                           |                                           |                                                          |                                         |                                                  |                                           |                                                    |                                                     |
| 01-01                                                                                 | 1.1                                                  | .66                                       | .84                                       | 1.5                                                      | 2.6                                     | 12                                               | .15                                       | .17                                                | 2.6                                                 |
| 07288170 - HUSHPUCKEN RIVER NEAR BALTZER, MISS. (LAT 33 58 18 LONG 090 40 20)         |                                                      |                                           |                                           |                                                          |                                         |                                                  |                                           |                                                    |                                                     |
| JULY, 1974                                                                            |                                                      |                                           |                                           |                                                          |                                         |                                                  |                                           |                                                    |                                                     |
| 31-31                                                                                 | .44                                                  | .11                                       | .89                                       | 1.0                                                      | 1.4                                     | 6.4                                              | .29                                       | .10                                                | 3.6                                                 |
| AUG.                                                                                  |                                                      |                                           |                                           |                                                          |                                         |                                                  |                                           |                                                    |                                                     |
| 01-01                                                                                 | .44                                                  | .11                                       | .89                                       | 1.0                                                      | 1.4                                     | 6.4                                              | .29                                       | .10                                                | 3.6                                                 |
| 07288185 - BLACK BAYOU AT BALTZER, MISS. (LAT 33 59 00 LONG 090 35 39)                |                                                      |                                           |                                           |                                                          |                                         |                                                  |                                           |                                                    |                                                     |
| JULY, 1974                                                                            |                                                      |                                           |                                           |                                                          |                                         |                                                  |                                           |                                                    |                                                     |
| 31-31                                                                                 | .36                                                  | .15                                       | 1.8                                       | 1.9                                                      | 2.3                                     | 10                                               | .38                                       | .22                                                | 8.2                                                 |
| AUG.                                                                                  |                                                      |                                           |                                           |                                                          |                                         |                                                  |                                           |                                                    |                                                     |
| 01-01                                                                                 | .36                                                  | .15                                       | 1.8                                       | 1.9                                                      | 2.3                                     | 10                                               | .38                                       | .22                                                | 8.2                                                 |
| 07288190 - BIG SUNFLOWER RIVER NEAR BALTZER, MISS. (LAT 33 57 04 LONG 090 37 38)      |                                                      |                                           |                                           |                                                          |                                         |                                                  |                                           |                                                    |                                                     |
| JULY, 1974                                                                            |                                                      |                                           |                                           |                                                          |                                         |                                                  |                                           |                                                    |                                                     |
| 31-31                                                                                 | .93                                                  | .14                                       | .73                                       | .87                                                      | 1.4                                     | 8.0                                              | .26                                       | .12                                                | 2.8                                                 |
| AUG.                                                                                  |                                                      |                                           |                                           |                                                          |                                         |                                                  |                                           |                                                    |                                                     |
| 01-01                                                                                 | .93                                                  | .14                                       | .73                                       | .87                                                      | 1.4                                     | 8.0                                              | .26                                       | .12                                                | 2.8                                                 |
| 07288200 - BIG SUNFLOWER RIVER NEAR LOMBARDY, MISS. (LAT 33 52 54 LONG 090 36 38)     |                                                      |                                           |                                           |                                                          |                                         |                                                  |                                           |                                                    |                                                     |
| JULY, 1974                                                                            |                                                      |                                           |                                           |                                                          |                                         |                                                  |                                           |                                                    |                                                     |
| 31-31                                                                                 | 1.0                                                  | .11                                       | 1.1                                       | 1.2                                                      | 2.2                                     | 9.7                                              | .28                                       | .14                                                | 3.1                                                 |
| AUG.                                                                                  |                                                      |                                           |                                           |                                                          |                                         |                                                  |                                           |                                                    |                                                     |
| 01-01                                                                                 | 1.0                                                  | .11                                       | 1.1                                       | 1.2                                                      | 2.2                                     | 9.7                                              | .28                                       | .14                                                | 3.1                                                 |

## ANALYSES OF SAMPLES COLLECTED DURING SHORT-TERM INTENSIVE STUDIES

## CLEVELAND AREA

An intensive study of the quality of surface waters in the Cleveland area was conducted Sept. 16-20, 1974. Samples were obtained at nine sites on Lead Bayou and its tributaries. Listed below are site locations and results of laboratory analyses and field determinations of water quality during the study.

| DATE                                                                   | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|------------------------------------------------------------------------|------|------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|
| 07288355 - LEAD BAYOU NEAR RENOVA, MISS. (LAT 33 46 36 LONG 090 41 58) |      |                                          |                                                            |               |                             |                                    |
| SEP., 1974                                                             |      |                                          |                                                            |               |                             |                                    |
| 18...                                                                  | 0620 | .43                                      | 1050                                                       | 4.2           | 20.5                        | 4.9                                |
| 18...                                                                  | 0900 | .43                                      | 775                                                        | 4.4           | 20.5                        | 5.6                                |
| 18...                                                                  | 1235 | .43                                      | 750                                                        | 4.2           | 25.0                        | 5.9                                |
| 18...                                                                  | 1505 | .43                                      | 700                                                        | 4.2           | 27.5                        | 6.6                                |
| 18...                                                                  | 1810 | .43                                      | 560                                                        | 4.3           | 27.0                        | 7.2                                |
| 18...                                                                  | 2105 | .43                                      | 560                                                        | 5.0           | 25.5                        | 5.1                                |
| 19...                                                                  | 0005 | .43                                      | 550                                                        | 5.2           | 24.0                        | 5.0                                |
| 19...                                                                  | 0245 | .43                                      | 550                                                        | 5.5           | 22.0                        | 4.9                                |

07288357 - LEAD BAYOU NEAR CLEVELAND, MISS. (LAT 33 43 58 LONG 090 40 36)

| DATE       | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|------------|------|------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|
| SEP., 1974 |      |                                          |                                                            |               |                             |                                    |
| 18...      | 0630 | .55                                      | 240                                                        | 6.6           | 20.0                        | 1.5                                |
| 18...      | 0910 | .55                                      | 240                                                        | 6.8           | 19.5                        | 1.5                                |
| 18...      | 1210 | .54                                      | 240                                                        | 6.9           | 21.5                        | 2.2                                |
| 18...      | 1520 | .53                                      | 240                                                        | 6.8           | 23.0                        | 2.4                                |
| 18...      | 1815 | .52                                      | 240                                                        | 6.6           | 23.5                        | 1.8                                |
| 18...      | 2120 | .52                                      | 240                                                        | 6.9           | 23.0                        | 1.3                                |
| 19...      | 0020 | .52                                      | 240                                                        | 6.7           | 22.0                        | 1.1                                |
| 19...      | 0320 | .52                                      | 240                                                        | 6.7           | 21.0                        | 1.1                                |

07288359 - SEWAGE DISPOSAL DITCH NEAR RENOVA, MISS. (LAT 33 45 43 LONG 090 42 57)

| DATE       | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|------------|------|------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|
| SEP., 1974 |      |                                          |                                                            |               |                             |                                    |
| 18...      | 0710 | 2.4                                      | 1500                                                       | 7.0           | 26.5                        | .3                                 |
| 18...      | 0945 | 2.5                                      | 1450                                                       | 8.3           | 28.0                        | .4                                 |
| 18...      | 1305 | 2.7                                      | 1600                                                       | 9.0           | 30.5                        | .2                                 |
| 18...      | 1535 | 2.8                                      | 1600                                                       | 9.0           | 31.0                        | .3                                 |
| 18...      | 1840 | 2.7                                      | 1550                                                       | 9.1           | 29.0                        | .3                                 |
| 18...      | 2135 | 2.6                                      | 1600                                                       | 9.0           | 28.0                        | .2                                 |
| 19...      | 0045 | 2.6                                      | 1650                                                       | 8.6           | 27.5                        | .3                                 |
| 19...      | 0325 | 2.6                                      | 1300                                                       | 8.6           | 27.0                        | .2                                 |

07288360 - SEWAGE DISPOSAL DITCH AT CLEVELAND, MISS. (LAT 33 45 43 LONG 090 42 40)

| DATE       | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|------------|------|------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|
| SEP., 1974 |      |                                          |                                                            |               |                             |                                    |
| 18...      | 0645 | 3.5                                      | 1200                                                       | 5.8           | 25.5                        | .7                                 |
| 18...      | 0920 | 3.4                                      | 1250                                                       | 5.5           | 26.0                        | .7                                 |
| 18...      | 1250 | 3.3                                      | 1250                                                       | 6.1           | 31.5                        | .4                                 |
| 18...      | 1520 | 3.3                                      | 1400                                                       | 6.2           | 29.5                        | .6                                 |
| 18...      | 1830 | 3.3                                      | 1000                                                       | 6.4           | 28.5                        | .5                                 |
| 18...      | 2120 | 3.3                                      | 1300                                                       | 6.6           | 27.0                        | .2                                 |
| 19...      | 0025 | 3.4                                      | 1250                                                       | 6.6           | 27.0                        | .3                                 |
| 19...      | 0300 | 3.4                                      | 1050                                                       | 6.7           | 26.0                        | .3                                 |



## CLEVELAND AREA.--Continued

07244352 - LEAD HAYOU TRIBUTARY NO. 1 NEAR CLEVELAND, MISS. (LAT 33 43 58 LONG 090 41 44)

| DATE       | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SPCL-<br>CLIPIC<br>COIN-<br>DUL-<br>ANCE<br>(MICRO-<br>MHUS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|------------|------|------------------------------------------|--------------------------------------------------------------|---------------|-----------------------------|------------------------------------|
| SEP.. 1974 |      |                                          |                                                              |               |                             |                                    |
| 17...      | 0600 | 4.2                                      | --                                                           | --            | 23.0                        | .2                                 |
| 17...      | 0650 | 4.2                                      | --                                                           | --            | 23.0                        | .2                                 |
| 17...      | 0700 | 4.2                                      | --                                                           | --            | 22.0                        | .2                                 |
| 17...      | 0905 | 4.2                                      | --                                                           | --            | 23.0                        | .2                                 |
| 17...      | 0955 | 4.2                                      | --                                                           | --            | 23.8                        | .2                                 |
| 17...      | 1105 | 4.2                                      | --                                                           | --            | 23.0                        | .2                                 |
| 17...      | 1210 | 4.2                                      | --                                                           | --            | 24.0                        | .3                                 |
| 17...      | 1310 | 4.4                                      | --                                                           | --            | 24.5                        | .3                                 |
| 17...      | 1405 | 4.2                                      | --                                                           | --            | 24.5                        | .3                                 |
| 17...      | 1505 | 4.4                                      | --                                                           | --            | 25.0                        | .3                                 |
| 17...      | 1605 | 4.3                                      | --                                                           | --            | 25.0                        | .3                                 |
| 17...      | 1715 | 4.6                                      | --                                                           | --            | 25.0                        | .3                                 |
| 17...      | 1815 | 4.2                                      | --                                                           | --            | 25.5                        | .2                                 |
| 17...      | 1910 | 4.2                                      | --                                                           | --            | 26.0                        | .3                                 |
| 17...      | 2020 | 4.2                                      | --                                                           | --            | 26.0                        | .3                                 |
| 17...      | 2120 | 4.1                                      | --                                                           | --            | 25.0                        | .3                                 |
| 17...      | 2215 | 4.3                                      | --                                                           | --            | 25.0                        | 1.3                                |
| 17...      | 2310 | 4.3                                      | --                                                           | --            | 25.0                        | 1.6                                |
| 18...      | 0010 | 4.5                                      | --                                                           | --            | 25.0                        | 1.5                                |
| 18...      | 0055 | 4.8                                      | --                                                           | --            | 28.0                        | 1.1                                |
| 18...      | 0150 | 4.6                                      | --                                                           | --            | 24.5                        | 1.0                                |
| 18...      | 0300 | 4.6                                      | --                                                           | --            | 24.5                        | .1                                 |
| 18...      | 0350 | 4.9                                      | --                                                           | --            | 24.5                        | .1                                 |
| 18...      | 0505 | 4.5                                      | --                                                           | --            | 24.0                        | .3                                 |
| 18...      | 0620 | 4.4                                      | 960                                                          | 5.8           | 23.0                        | .1                                 |
| 18...      | 0700 | 4.5                                      | --                                                           | --            | 23.0                        | .2                                 |
| 18...      | 0800 | 4.4                                      | --                                                           | --            | 23.0                        | .2                                 |
| 18...      | 0900 | 4.4                                      | 950                                                          | 6.1           | 22.5                        | .2                                 |
| 18...      | 1000 | 4.5                                      | --                                                           | --            | 22.5                        | .2                                 |
| 18...      | 1100 | 4.5                                      | --                                                           | --            | 23.0                        | .2                                 |
| 18...      | 1200 | 4.5                                      | 960                                                          | 6.1           | 24.0                        | .2                                 |
| 18...      | 1305 | 4.2                                      | --                                                           | --            | 24.5                        | .7                                 |
| 18...      | 1410 | 4.2                                      | --                                                           | --            | 25.2                        | .2                                 |
| 18...      | 1505 | 4.3                                      | 1100                                                         | 3.1           | 25.0                        | .7                                 |
| 18...      | 1600 | 4.4                                      | --                                                           | --            | 26.0                        | .2                                 |
| 18...      | 1700 | 4.5                                      | --                                                           | --            | 26.0                        | .2                                 |
| 18...      | 1805 | 4.3                                      | 825                                                          | 5.1           | 26.5                        | .2                                 |
| 18...      | 1905 | 4.2                                      | --                                                           | --            | 26.5                        | .1                                 |
| 18...      | 2000 | 4.2                                      | --                                                           | --            | 26.5                        | .2                                 |
| 18...      | 2130 | 4.3                                      | 1050                                                         | 6.0           | 26.0                        | .2                                 |
| 18...      | 2210 | 4.3                                      | --                                                           | --            | 26.0                        | .2                                 |
| 18...      | 2310 | 4.4                                      | --                                                           | --            | 26.0                        | .2                                 |
| 19...      | 0030 | 4.4                                      | 1050                                                         | 6.2           | 26.0                        | .2                                 |
| 19...      | 0110 | 4.4                                      | --                                                           | --            | 26.0                        | .2                                 |
| 19...      | 0205 | 4.4                                      | --                                                           | --            | 25.5                        | .2                                 |
| 19...      | 0330 | 4.4                                      | 1300                                                         | 6.5           | 25.0                        | .2                                 |
| 19...      | 0400 | 4.4                                      | --                                                           | --            | 25.0                        | .2                                 |
| 19...      | 0510 | 4.3                                      | --                                                           | --            | 24.0                        | .2                                 |
| 19...      | 0610 | 4.4                                      | --                                                           | --            | 24.0                        | .2                                 |
| 19...      | 0700 | 4.3                                      | --                                                           | --            | 23.5                        | .2                                 |
| 19...      | 0800 | 4.4                                      | --                                                           | --            | 23.5                        | .2                                 |
| 19...      | 0900 | 4.3                                      | --                                                           | --            | 23.0                        | .2                                 |
| 19...      | 1000 | 4.2                                      | --                                                           | --            | 23.5                        | .2                                 |
| 19...      | 1115 | 4.2                                      | --                                                           | --            | 24.0                        | .2                                 |
| 19...      | 1200 | 4.2                                      | --                                                           | --            | 25.0                        | .2                                 |
| 19...      | 1310 | 4.2                                      | --                                                           | --            | 25.5                        | .0                                 |
| 19...      | 1405 | 4.2                                      | --                                                           | --            | 26.0                        | .1                                 |
| 19...      | 1455 | 4.2                                      | --                                                           | --            | 26.5                        | .0                                 |
| 19...      | 1555 | 4.2                                      | --                                                           | --            | 27.0                        | .1                                 |
| 19...      | 1700 | 4.2                                      | --                                                           | --            | 27.5                        | 2.3                                |
| 19...      | 1750 | 4.2                                      | --                                                           | --            | 27.5                        | 1.4                                |
| 19...      | 1925 | 4.2                                      | --                                                           | --            | 27.5                        | .1                                 |
| 19...      | 2010 | 4.2                                      | --                                                           | --            | 27.0                        | .1                                 |
| 19...      | 2110 | 4.2                                      | --                                                           | --            | 27.0                        | .1                                 |
| 19...      | 2220 | 4.2                                      | --                                                           | --            | 27.0                        | 1.9                                |
| 19...      | 2310 | 4.2                                      | --                                                           | --            | 27.0                        | 2.8                                |
| 20...      | 0005 | 4.2                                      | --                                                           | --            | 26.5                        | 2.2                                |

07244363 - LEAD HAYOU TRIBUTARY NO. 1 NEAR BOYLE, MISS. (LAT 33 43 05 LONG 090 40 48)

| DATE       | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SPCL-<br>CLIPIC<br>COIN-<br>DUL-<br>ANCE<br>(MICRO-<br>MHUS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|------------|------|------------------------------------------|--------------------------------------------------------------|---------------|-----------------------------|------------------------------------|
| SEP.. 1974 |      |                                          |                                                              |               |                             |                                    |
| 18...      | 0745 | 6.0                                      | 850                                                          | 6.2           | 22.0                        | .3                                 |
| 18...      | 1010 | 5.9                                      | 850                                                          | 6.1           | 23.0                        | 2.3                                |
| 18...      | 1330 | 5.7                                      | 800                                                          | 6.5           | 24.5                        | .5                                 |
| 18...      | 1605 | 5.7                                      | 740                                                          | 6.5           | 25.0                        | .4                                 |
| 18...      | 1900 | 5.7                                      | 650                                                          | 6.7           | 26.5                        | .2                                 |
| 18...      | 2200 | 5.7                                      | 820                                                          | 6.6           | 24.0                        | .2                                 |
| 19...      | 0115 | 5.6                                      | 1000                                                         | 5.6           | 23.5                        | .5                                 |
| 19...      | 0345 | 5.6                                      | 900                                                          | 5.6           | 22.0                        | .2                                 |

07244364 - LEAD HAYOU TRIBUTARY NO. 2 NEAR BOYLE, MISS. (LAT 33 42 14 LONG 090 40 42)

| DATE       | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SPCL-<br>CLIPIC<br>COIN-<br>DUL-<br>ANCE<br>(MICRO-<br>MHUS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|------------|------|------------------------------------------|--------------------------------------------------------------|---------------|-----------------------------|------------------------------------|
| SEP.. 1974 |      |                                          |                                                              |               |                             |                                    |
| 18...      | 0805 | 1.5                                      | 100                                                          | 6.6           | 21.0                        | 3.8                                |
| 18...      | 1030 | 1.3                                      | 100                                                          | 6.5           | 22.0                        | 3.9                                |
| 18...      | 1345 | 1.3                                      | 100                                                          | 6.6           | 24.5                        | 4.4                                |
| 18...      | 1620 | 1.1                                      | 100                                                          | 6.7           | 26.0                        | 5.3                                |
| 18...      | 1910 | 1.1                                      | 100                                                          | 6.4           | 25.5                        | 5.2                                |
| 18...      | 2215 | 1.1                                      | 100                                                          | 6.7           | 24.0                        | 4.5                                |
| 19...      | 0135 | 1.0                                      | 100                                                          | 6.4           | 23.0                        | 3.6                                |
| 19...      | 0355 | 1.0                                      | 100                                                          | 6.6           | 22.0                        | 3.4                                |

## ANALYSES OF SAMPLES COLLECTED DURING SHORT-TERM INTENSIVE STUDIES

## CLARKSDALE AREA.--Continued

| DATE | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|------|------|-----------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|
|------|------|-----------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|

07288365 - LEAD HAYOU NEAR BOYLE, MISS. (LAT 33 43 07 LONG 090 38 34)

SEP., 1974

|       |      |     |     |     |      |     |
|-------|------|-----|-----|-----|------|-----|
| 17... | 0620 | 15  | --  | --  | 21.8 | 2.5 |
| 17... | 0705 | 15  | --  | --  | 21.4 | 2.3 |
| 17... | 0815 | 15  | --  | --  | 21.0 | 2.4 |
| 17... | 0855 | 15  | --  | --  | 22.0 | 2.5 |
| 17... | 1010 | 14  | --  | --  | 22.0 | 2.2 |
| 17... | 1055 | 14  | --  | --  | 22.0 | 2.3 |
| 17... | 1150 | 14  | --  | --  | 22.5 | 2.6 |
| 17... | 1255 | 13  | --  | --  | 22.5 | 2.8 |
| 17... | 1350 | 13  | --  | --  | 22.5 | 3.1 |
| 17... | 1450 | 13  | --  | --  | 23.0 | 3.1 |
| 17... | 1550 | 12  | --  | --  | 23.0 | 3.3 |
| 17... | 1700 | 12  | --  | --  | 23.0 | 2.9 |
| 17... | 1800 | 11  | --  | --  | 23.0 | 2.7 |
| 17... | 1900 | 10  | --  | --  | 23.0 | 2.7 |
| 17... | 2005 | 10  | --  | --  | 23.5 | 2.9 |
| 17... | 2100 | 10  | --  | --  | 23.5 | 3.6 |
| 17... | 2205 | 10  | --  | --  | 23.0 | 3.9 |
| 17... | 2300 | 10  | --  | --  | 23.0 | 4.0 |
| 17... | 2350 | 10  | --  | --  | 23.0 | 3.4 |
| 18... | 0130 | 10  | --  | --  | 23.0 | 1.2 |
| 18... | 0210 | 10  | --  | --  | 23.0 | .6  |
| 18... | 0250 | 10  | --  | --  | 23.0 | .5  |
| 18... | 0410 | 10  | --  | --  | 22.5 | .8  |
| 18... | 0450 | 10  | --  | --  | 22.3 | .9  |
| 18... | 0610 | 10  | 580 | 6.7 | 22.2 | .9  |
| 18... | 0700 | 9.8 | --  | --  | 22.0 | .9  |
| 18... | 0800 | 9.8 | --  | --  | 22.0 | 1.0 |
| 18... | 0900 | 9.5 | 600 | 6.7 | 21.9 | .8  |
| 18... | 1000 | 9.5 | --  | --  | 21.9 | .8  |
| 18... | 1100 | 9.5 | --  | --  | 21.9 | 1.1 |
| 18... | 1200 | 9.5 | 580 | 6.6 | 22.0 | 1.0 |
| 18... | 1315 | 9.2 | --  | --  | 22.3 | 1.2 |
| 18... | 1400 | 9.0 | --  | --  | 22.3 | 1.2 |
| 18... | 1500 | 9.0 | 600 | 6.5 | 22.7 | 1.3 |
| 18... | 1600 | 8.8 | --  | --  | 23.0 | 1.3 |
| 18... | 1700 | 8.5 | --  | --  | 23.0 | 1.2 |
| 18... | 1800 | 8.5 | 600 | 6.7 | 23.0 | .9  |
| 18... | 1905 | 8.3 | --  | --  | 23.0 | .7  |
| 18... | 2000 | 8.1 | --  | --  | 23.0 | .6  |
| 18... | 2110 | 7.4 | --  | --  | 23.0 | .7  |
| 18... | 2200 | 8.3 | --  | --  | 23.0 | .7  |
| 18... | 2300 | 8.3 | --  | --  | 23.0 | .6  |
| 19... | 0010 | 8.3 | 700 | 6.3 | 23.5 | .6  |
| 19... | 0055 | 8.3 | --  | --  | 23.0 | .6  |
| 19... | 0155 | 8.3 | --  | --  | 23.0 | .5  |
| 19... | 0300 | 8.3 | 700 | 6.5 | 23.0 | .5  |
| 19... | 0350 | 8.3 | --  | --  | 23.0 | .5  |
| 19... | 0500 | 8.3 | --  | --  | 23.0 | .5  |
| 19... | 0600 | 8.1 | --  | --  | 23.0 | .5  |
| 19... | 0715 | 8.3 | --  | --  | 22.5 | .3  |
| 19... | 0815 | 8.1 | --  | --  | 22.0 | .4  |
| 19... | 0910 | 7.8 | --  | --  | 22.0 | .3  |
| 19... | 1015 | 7.8 | --  | --  | 22.5 | .4  |
| 19... | 1100 | 7.6 | --  | --  | 22.5 | .4  |
| 19... | 1205 | 7.0 | --  | --  | 22.5 | .2  |
| 19... | 1300 | 6.7 | --  | --  | 22.5 | .1  |
| 19... | 1355 | 6.7 | --  | --  | 23.0 | .1  |
| 19... | 1505 | 6.5 | --  | --  | 23.0 | .1  |
| 19... | 1605 | 6.2 | --  | --  | 23.5 | .1  |
| 19... | 1710 | 6.2 | --  | --  | 23.5 | .1  |
| 19... | 1800 | 6.0 | --  | --  | 24.0 | .1  |
| 19... | 1910 | 6.0 | --  | --  | 24.0 | .2  |
| 19... | 2000 | 5.7 | --  | --  | 24.0 | .2  |
| 19... | 2100 | 5.7 | --  | --  | 24.0 | .2  |
| 19... | 2205 | 5.7 | --  | --  | 24.0 | .2  |
| 19... | 2300 | 5.7 | --  | --  | 24.0 | .2  |
| 19... | 2355 | 5.7 | --  | --  | 24.0 | .1  |

07288366 - HORSESHOE BAYOU NEAR RULEVILLE, MISS. (LAT 33 43 02 LONG 090 35 57)

SEP., 1974

|       |      |    |     |     |      |     |
|-------|------|----|-----|-----|------|-----|
| 18... | 0630 | 13 | 400 | 6.5 | 21.1 | 3.5 |
| 18... | 0915 | 13 | 450 | 6.3 | 21.0 | 3.6 |
| 18... | 1215 | 13 | 460 | 6.1 | 22.4 | 4.5 |
| 18... | 1515 | 13 | 450 | 6.3 | 25.0 | 4.2 |
| 18... | 1815 | 13 | 500 | 6.3 | 24.7 | 4.4 |
| 18... | 2055 | 13 | 700 | 5.5 | 23.0 | 4.0 |
| 18... | 2355 | 13 | 600 | 5.8 | 22.5 | 3.7 |
| 19... | 0245 | 13 | 500 | 6.4 | 22.0 | 3.0 |

## CLEVELAND AREA.--Continued

| DATE                                                                                      | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>ORTHO<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>(MG/L) |
|-------------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------|-----------------------------------------------------|
| 07288355 - LEAD BAYOU NEAR RENOVA, MISS. (LAT 33 46 36 LONG 090 41 58)                    |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| SEP., 1974<br>18-19                                                                       | .01                                                  | .40                                       | .51                                       | .91                                                      | .92                                     | 4.1                                       | .13                                       | .04                                                | 2.7                                                 |
| 07288357 - LEAD BAYOU NEAR CLEVELAND, MISS. (LAT 33 43 58 LONG 090 40 36)                 |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| SEP., 1974<br>18-19                                                                       | .01                                                  | .01                                       | .53                                       | .54                                                      | .55                                     | 2.4                                       | .37                                       | .31                                                | 1.8                                                 |
| 07288359 - SEWAGE DISPOSAL DITCH NEAR RENOVA, MISS. (LAT 33 45 43 LONG 090 42 57)         |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| SEP., 1974<br>18-19                                                                       | .00                                                  | .00                                       | 2.9                                       | 2.9                                                      | 2.9                                     | 13                                        | 1.4                                       | .89                                                | 42                                                  |
| 07288360 - SEWAGE DISPOSAL DITCH AT CLEVELAND, MISS. (LAT 33 45 43 LONG 090 42 40)        |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| SEP., 1974<br>18-19                                                                       | .96                                                  | 1.2                                       | 2.2                                       | 3.4                                                      | 4.4                                     | 19                                        | 68                                        | 67                                                 | 34                                                  |
| 07288362 - LEAD BAYOU TRIBUTARY NO. 1 NEAR CLEVELAND, MISS. (LAT 33 43 58 LONG 090 41 48) |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| SEP., 1974<br>18-19                                                                       | 2.4                                                  | .00                                       | 2.5                                       | 2.5                                                      | 4.9                                     | 22                                        | 52                                        | 49                                                 | 31                                                  |
| 07288363 - LEAD BAYOU TRIBUTARY NO. 1 NEAR BOYLE, MISS. (LAT 33 43 05 LONG 090 40 48)     |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| SEP., 1974<br>18-19                                                                       | .46                                                  | .77                                       | 3.1                                       | 3.9                                                      | 4.4                                     | 19                                        | 20                                        | 18                                                 | 12                                                  |
| 07288364 - LEAD BAYOU TRIBUTARY NO. 2 NEAR BOYLE, MISS. (LAT 33 42 14 LONG 090 40 42)     |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| SEP., 1974<br>18-19                                                                       | .12                                                  | .25                                       | .85                                       | 1.1                                                      | 1.2                                     | 5.4                                       | .35                                       | .26                                                | 2.6                                                 |
| 07288365 - LEAD BAYOU NEAR BOYLE, MISS. (LAT 33 43 07 LONG 090 38 34)                     |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| SEP., 1974<br>18-19                                                                       | .14                                                  | .85                                       | 2.2                                       | 3.0                                                      | 3.1                                     | 14                                        | 17                                        | 15                                                 | 13                                                  |
| 07288366 - HORSESHOE BAYOU NEAR RULEVILLE, MISS. (LAT 33 43 02 LONG 090 35 57)            |                                                      |                                           |                                           |                                                          |                                         |                                           |                                           |                                                    |                                                     |
| SEP., 1974<br>18-19                                                                       | .82                                                  | 1.1                                       | .60                                       | 1.7                                                      | 2.5                                     | 11                                        | 14                                        | .98                                                | 7.8                                                 |



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