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Water Resources Data for Louisiana

Part 1. Surface Water Records

Part 2. Water Quality Records



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

Prepared in cooperation with the Louisiana Department of
Public Works and with other State and Federal agencies

CALENDAR FOR WATER YEAR 1973

OCTOBER 1972

S	M	T	W	T	F	S
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JANUARY 1973

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FEBRUARY 1973

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AUGUST 1973

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SEPTEMBER 1973

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Public Works and with other State and Federal agencies

Prepared in cooperation with

Louisiana Department of Public Works
Louisiana Department of Highways
Sabine River Compact Administration
Corps of Engineers, U.S. Army
Environmental Protection Agency

Copies of this report may be obtained from
District Chief, Water Resources Division
U.S. Geological Survey
6554 Florida Boulevard
P.O. Box 66492
Baton Rouge, Louisiana 70806

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WATER-QUALITY STATIONS, IN DOWNSTREAM ORDER,
FOR WHICH RECORDS ARE PUBLISHED

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

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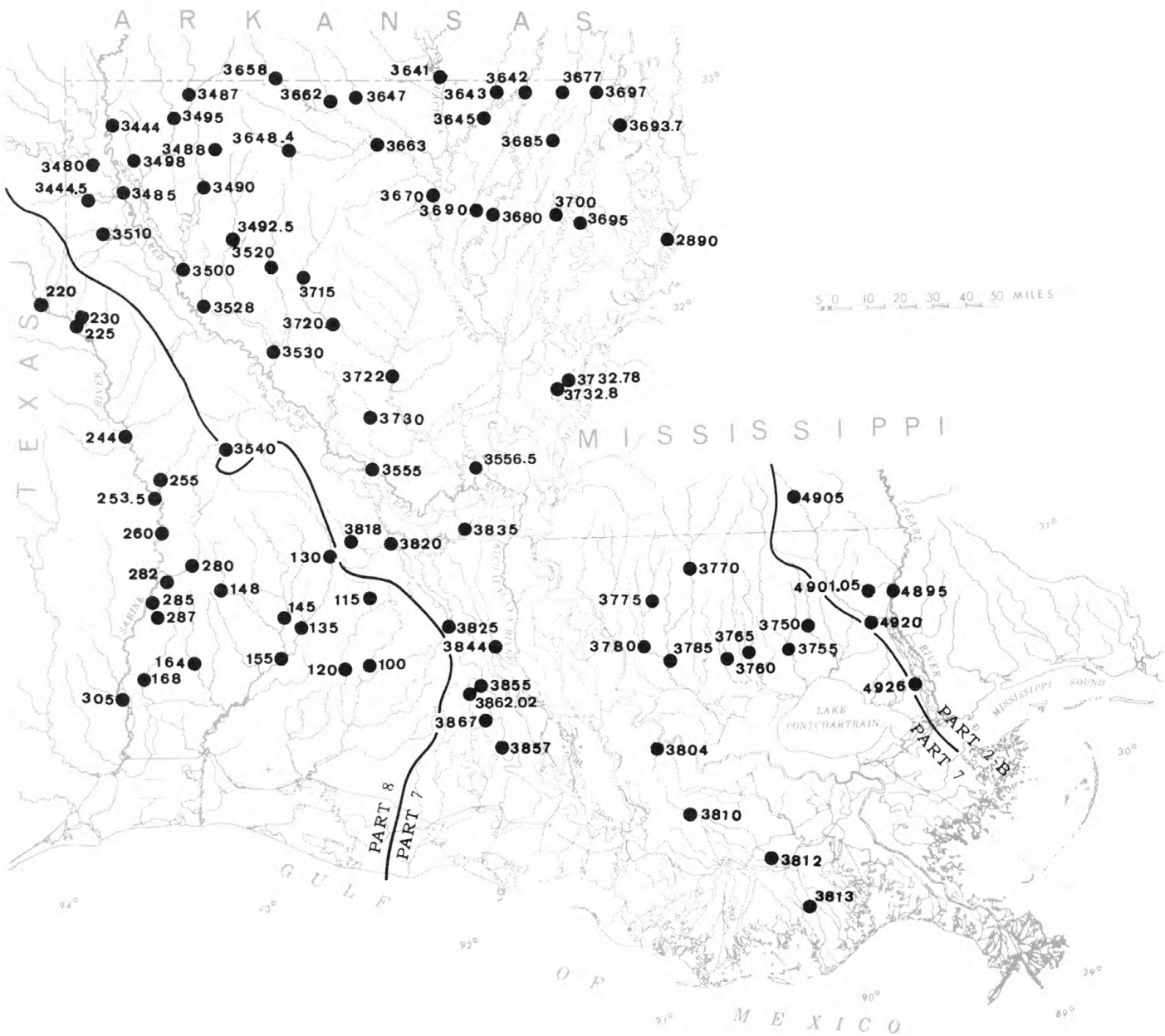


Figure 1.-- Map showing location of continuous gaging stations.

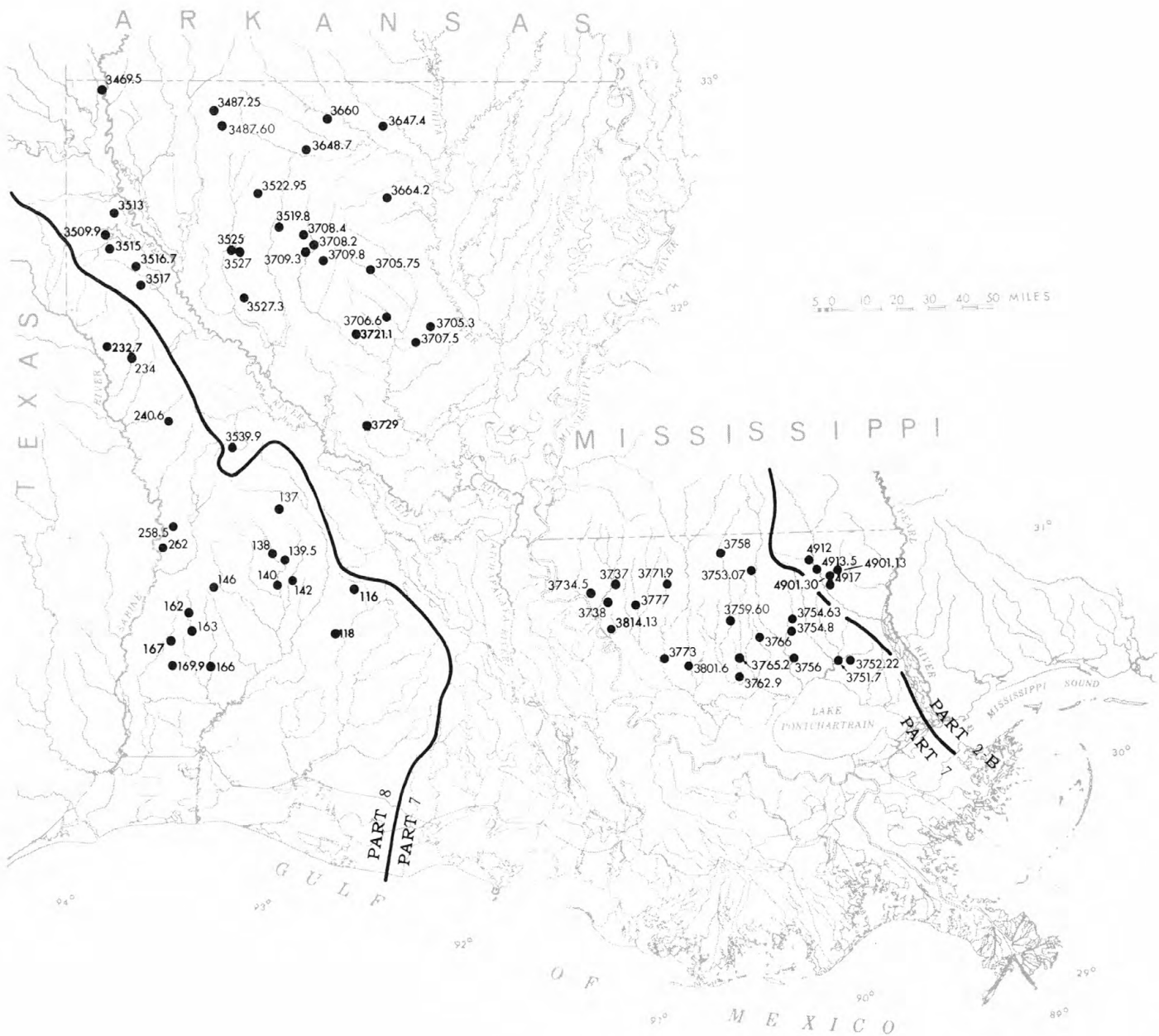


Figure 2.-- Map showing location of crest-stage stations.

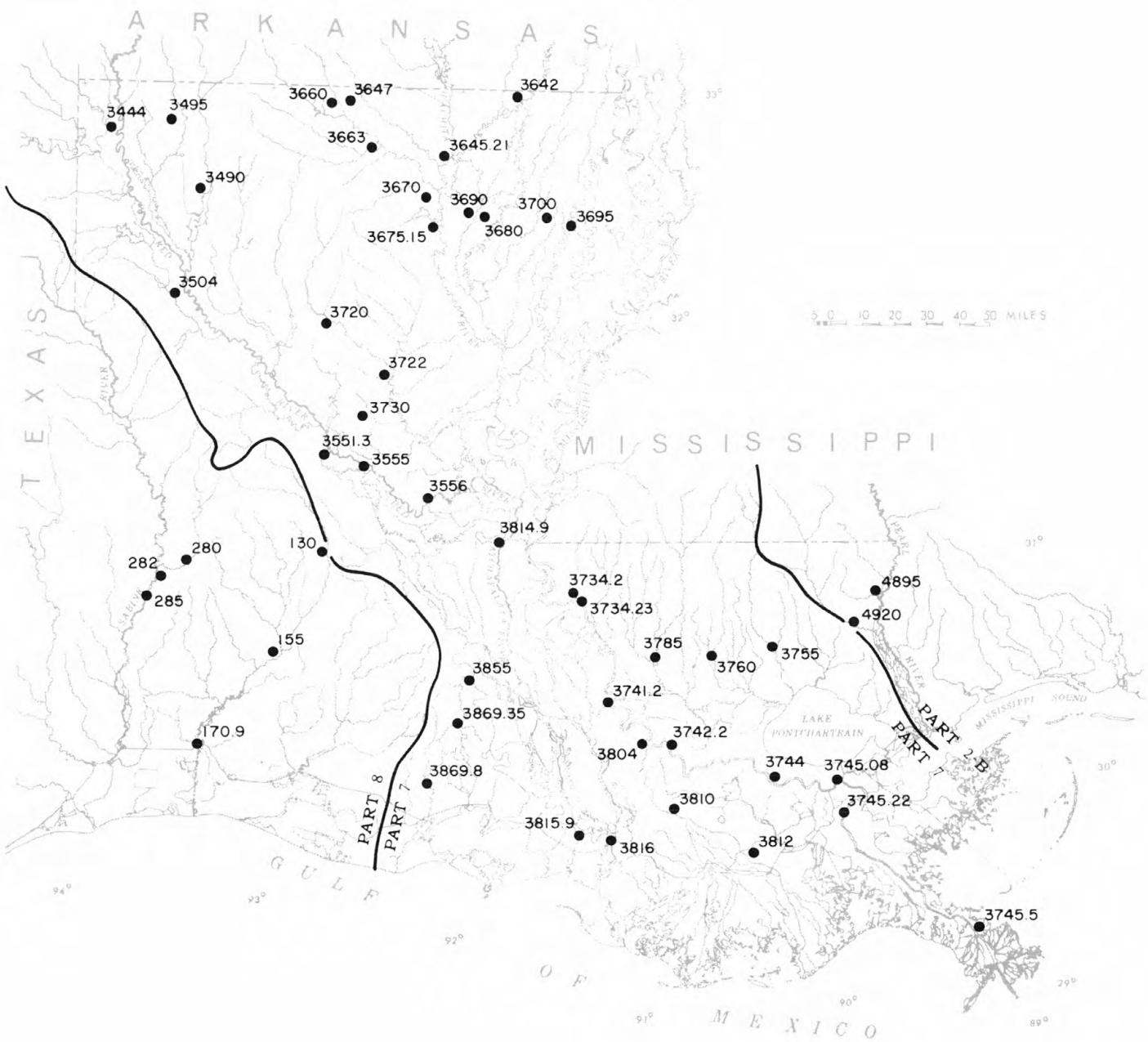


Figure 3.-- Map showing location of water quality stations.

WATER RESOURCES DATA FOR LOUISIANA, 1973

Part 1. Surface-Water Records

Part 2. Water-Quality Records

INTRODUCTION

Water-resources data for the 1973 water year for Louisiana, including records of streamflow or reservoir storage at gaging stations, partial-record stations, and miscellaneous sites, and records of water-quality data on the chemical and physical characteristics of surface water are given in this report. Records for a few pertinent gaging stations in bordering States are also included. The records were collected and computed by the Water Resources Division of the U.S. Geological Survey under the direction of Albert N. Cameron, district chief. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State and federal agencies in Louisiana.

Through September 30, 1960, the records of discharge and stage of streams and contents and stage of lakes or reservoirs were published in an annual series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States."

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 17.

COOPERATION

The U.S. Geological Survey and organizations of the State of Louisiana have had cooperative agreements for the systematic collection of streamflow records since 1938, and for water-quality records since 1943. Organizations that supplied data are acknowledged in station descriptions. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Louisiana Department of Public Works, Roy Aguillard, director.

Louisiana Department of Highways, W. T. Taylor, director.

Sabine River Compact Administration, composed of W. H. Robinson, Federal representative and chairman; R. J. Palmer and Hu B. Myers for Louisiana; George Smith and J. M. Syler for Texas.

Assistance in the form of funds or services was provided by the Corps of Engineers, U.S. Army, and Environmental Protection Agency, in collection records for 29 gaging stations and 15 water-quality stations published in this report.

DEFINITION OF TERMS

Definition of terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are as follows. See also conversion table for converting English units to International System of Units (SI) on page 20.

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

Biochemical oxygen demand (BOD) is the amount of oxygen required by bacteria while stabilizing decomposable organic matter under aerobic conditions.

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, approximately 1.9835 acre-feet, or about 646,000 gallons, and represents a runoff of approximately 0.0372 inch from 1 square mile.

Chemical oxygen demand (COD) indicates the quantity of oxidizable compounds present in a water and will vary with water compositions, concentration of reagent, temperature, period of contact, and other factors.

Coliform organisms are a group of bacteria used as an indicator of the sanitary quality of the water. The number of coliform colonies per 100 milliliters is determined by the immediate or delayed incubation membrane filter method.

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

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 discharges 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) or DISCHARGE (CFS)."

Dissolved oxygen (DO) is the amount of oxygen dissolved in water. This amount varies with temperature and pressure.

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 obtained.

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 (CaCO_3).

Micrograms per liter ($\mu\text{g/l}$, UG/l) See "milligrams per liter."

Milligrams per liter (mg/l , MG/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the weight of solute per unit volume of water. One thousand micrograms per liter is equal to one milligram per liter. Concentration of suspended sediment expressed in milligrams per liter is based on the weight of sediment in a liter of water-sediment mixture. Sediment concentrations that are expressed in parts per million are considered equivalent to milligrams per liter for concentration ranges to be expected in Louisiana.

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

<u>Ion</u>	<u>Multi- ply by</u>	<u>Ion</u>	<u>Multi- ply by</u>
Aluminum (Al^{+3})*-----	0.11119	Lithium (Li^{+1})*---	0.14411
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
Cooper (Cu^{+2})*-----	.03148	Sodium (Na^{+1})-----	.04350
Fluoride (F^{-1})-----	.05264	Strontium (Sr^{+2})*-	.02283
Iron (Fe^{+3})*-----	.05372	Sulfate (SO_4^{-2})---	.02082
Lead (Pb^{+2})*-----	.00965	Zinc (Zn^{+2})*-----	.03060

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

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

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.

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

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

Suspended-sediment discharge is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight, or by volume, that is discharged in a given time. It is computed by multiplying discharge times mg/l times 0.0027.

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

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

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 liter) 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 amount of water flowing in a channel, expressed as volume per unit of time.

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 of milligrams per liter 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 period.

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.

International Hydrological Decade (IHD) River Stations provide a general index of runoff and materials in the water balance (discharge of water, and dissolved and transported solids) of the world. In the United States, IHD Stations provide indices of runoff and of the general distribution of water in the principal river basins of the conterminous United States and Alaska.

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 NUMBERS

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 these 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 indention, each indention 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 continuous-record 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 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 02489500, which appears just to the left of the station name includes the part number "02" plus the 6-digit downstream order number "489500." In this report the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain natural drainage lines. Records in this report are in Part 2 (South Atlantic Slope and Eastern Gulf), Part 7 (Lower Mississippi River basin) and Part 8 (Western Gulf of Mexico 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 a water-stage recorder that gives a continuous graph of the fluctuations (for digital recorders, a tape punched at 15- or 60-minute intervals) or from direct readings on a nonrecording gage. 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.

For a stream-gaging station, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves defined by discharge measurements. If extensions to the rating curves are necessary to define the extremes of discharge, 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 application of the gage height to the rating table gives the discharge. The daily mean discharge is computed from gage heights, then the monthly and the yearly mean discharge 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 determined 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 shifting sand bars, aquatic growth or debris on the control, the daily mean discharge is computed by 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 determining discharge. Information required for determining 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 determining discharge.

For a reservoir station, capacity table 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 are computed. Discharge over spillways is computed from a stage-discharge relation curve defined by discharge measurements.

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, 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 basic data. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. Tables of daily mean gage heights are included for some streamflow stations and for some reservoir stations. Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the 1972 water year is shown on the reverse side of the front cover to facilitate finding the day of the week for any date.

The description of the gaging stations gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or contents, notations of revisions of previously published records, and general remarks. The location of the gaging station and the drainage area are obtained from the most accurate maps available. 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 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 (or contents), 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 to 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 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 the reservoir for which records of contents are published on a daily basis.

The daily table for stream-gaging stations gives the discharge corresponding to the daily mean gage height unless there are large or rapid changes in the discharge during a day. For days having large or rapid changes, discharge for the day is computed by averaging the mean discharge for several parts of a day. For digital recorders, the daily

mean discharge is always the average of the discharges at each punched reading. For stations equipped with nonrecording gages, the daily discharge corresponds to once-daily readings of the gage or to the mean of twice-daily reading; but for periods of rapidly changing stage the discharge is determined from a gage-height graph based on gage readings.

The daily tables for reservoir stations give the contents corresponding to the water-surface elevation at a given time, usually at 2400 each day. For some reservoirs the elevation at a given time is given in the daily table. 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 of diversion, if the drainage area includes large noncontributing areas, or if the average rainfall on the drainage basin is usually less than 20 inches.

For reservoir stations, the monthly summary gives the elevation at the end of the month and the change in contents during the month.

In the yearly summary below the monthly summary, the figures of maximum are the maximum daily discharges for the calendar and water years; likewise, the minimums in this summary are minimum daily discharges.

For reservoir stations the yearly summary gives the change in contents for the calendar year and for the water year.

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 subject 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.

In a general footnote, introduced by the word "NOTE," certain periods are indicated 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 are indicated only if they are a month or more in length and the accuracy of the records is affected. The methods used in computing discharge for various unusual

conditions have been explained in preceding paragraphs. Footnotes to reservoir tables explain the use of new capacity tables.

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 1.00 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 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 some stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumptive use, regulation, evaporation or other factors. For these stations, discharge in cubic feet per second per square mile and runoff in inches are not published.

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 Louisiana for the periods October 1960 to September 1965 are in Water-Supply Papers 1906, 1920, and 1922, October 1965 to September 1970 are in Water-Supply Papers 2106, 2120, and 2122.

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 monthend 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 Louisiana are compiled in Water-Supply Papers 1304, 1311, and 1312 through September 1950, and in 1724, 1731, and 1732 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

Data collected at partial-record stations and at miscellaneous sites are given in five 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, the third is a table of discharge measurements at miscellaneous sites, the fourth is a table of peak elevations at flood-profile partial-record stations, and the fifth is a table of seepage investigations.

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.

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 and sediment loads 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.

Data on the quality of surface water were collected from designated sampling sites at predetermined intervals such as one daily, weekly, monthly or less frequently. At some sites it was necessary to continuously record data on a punched paper tape at 15-, 30-, or 60-minute intervals.

Water-quality information is presented for chemical, biological, and radiochemical, biological, and radiochemical parameters. Water temperature, fluvial sediment, and pesticide information are also included. Chemical quality includes concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, specific conductance, and pH. Water-temperature data were obtained from continuous-temperature recorders except for one station at which once-daily observations were made. Daily maximum and minimum temperatures are given for all continuous-recorder stations. Fluvial-sediment information is given for suspended-sediment discharges and concentrations.

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 liter (mg/l) and water temperatures in degrees Celsius (centigrade, °C). In waters with a density of 1.000 g/ml (grams per milliliter), parts per million and milligrams per liter 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 liter. To convert temperatures in degrees Fahrenheit to degrees Celsius, see table 1 on the following page.

Table 2.--Degrees Fahrenheit ($^{\circ}\text{F}$) to degrees Celsius ($^{\circ}\text{C}$)*
(Temperature reported to nearest 0.5 $^{\circ}\text{C}$)

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

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

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements in micrograms per liter instead of milligrams per liter. (See "Definitions of Terms," p. 4.)

Solutes

The methods of collecting and analyzing water samples for determining the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman (1970). One sample can define adequately the water quality at a given time if the mixture of solutes through 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 at several verticals across the channel to determine accurately the solute load.

At chemical-quality stations where monitors are installed, the records consist of daily maximum, minimum, and mean values for each constituent measured. More detailed records (hourly values) may be obtained by writing the Water Resources District Office in Baton Rouge, Louisiana (see p. II).

Temperature

Water temperatures are measured at most of the water-quality stations. For daily stations, the water temperatures are taken about the same time each day when the sample is collected. Large streams have a small diurnal temperature change; 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.

Sediment

At one station suspended-sediment samples are collected daily with a depth-integrating cable-suspended sampler from a fixed sampling point. Depth-integrated samples are collected periodically at many verticals in the cross section to determine the ratio of the cross-sectional distribution of the concentration of suspended sediment to the daily sampling vertical.

During periods of high or rapidly changing flow, samples are taken twice or more often throughout the day at one station. For periods when no samples are collected, daily loads of suspended sediment are estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment discharge for other periods of similar discharge.

At other stations suspended-sediment samples are collected periodically with depth-integrating cable-suspended sampler at one vertical in the stream cross section. Although data collected periodically may represent conditions only at the time of observation, such data are useful in establishing seasonal relations between quality and stream-flow in predicting long-term sediment-discharge characteristics of the stream.

Publications

The table below shows the annual series of water-supply papers that give information on quality of surface waters in Louisiana. Data for the South Atlantic slope and Eastern Gulf of Mexico basins are given in Part 2; for the Lower Mississippi River basin in Part 7, and for the Western Gulf of Mexico basins in Part 8.

Table 3.--Water-supply-paper numbers and parts, water years, 1941-70

Part number			Part number		
<u>Year</u>	<u>2</u>	<u>7-8</u>	<u>Year</u>	<u>2</u>	<u>7-8</u>
1941	942	942	1956	1450	1452
1942	950	950	1957	1520	1522
1943	970	970	1958	1571	1573
1944	1022	1022	1959	1641	1644
1945	1030	1030	1960	1741	1744
1946	1050	1050	1961	1881	1884
1947	1102	1102	1962	1941	1944
1948	1132	1133	1963	1947	1950
1949	1162	1163	1964	1954	1957
1950	1186	1188	1965	1961	1964
1951	1197	1199	1966	1991	1994
1952	1250	1252	1967	2011	2014
1953	1290	1292	1968	2092	AB2096
1954	1350	1352			AC2097
1955	1400	1402			

Part number			
<u>Year</u>	<u>2</u>	<u>7</u>	<u>8</u>
1969	A2142	A2146	A2147
1970	A2152	A2156	A2157

A In press.

B Part 7

C Part 8

- American Public Health Association, and others, 1965, Standard methods for the examination of water and wastewater, 12th ed.: Am. Public Health Assoc., New York, 769 p.
- Brown, Eugene, Skougstad, M. W., and Fishman, M. J., 1970, Methods for collection and analysis of water samples for dissolved minerals and gases: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. A1, 160 p.
- Carter, R. W., and Davidian, Jacob, 1968, General procedures for gaging streams: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. A6, 13 p.
- Colby, B. R., 1963, Fluvial sediments--a summary of source, transportation, deposition, and measurement of sediment discharge: U.S. Geol. Survey Bull. 1181-A, 47 p.
- Corbett, D. M., and others, 1943, reprinted 1957, Stream-gaging procedures describing methods and practices of the Geological Survey: a manual of the U.S. Geol. Survey Water-Supply Paper 888, 245 p.
- Hem, J. D., 1970, Study and interpretation of the chemical characteristics of natural water, 2d ed.: U.S. Geol. Survey Water-Supply Paper 1473, 363 p.
- Langbein, W. B., and Iseri, K. T., 1960, General introduction and hydrologic definitions: U.S. Geol. Survey Water-Supply Paper 1541-A, 29 p.
- Page, C. H., and Vigoureaux, Paul, eds., 1972, The International System of Units (SI): U.S. Natl. Bur. Standards Spec. Pub. 330, p. 13, 15.

PART 1. SURFACE WATER RECORDS

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 ²)
	.4047	*hectares (ha)
	.4047	square hectometer (hm ²)
	.004047	square kilometers (km ²)
square miles (mi ²)	2.590	square kilometers (km ²)
<i>Volume</i>		
gallons (gal)	3.785	**liters (l)
	3.785	cubic decimeters (dm ³)
	3.785x10 ⁻³	cubic meters (m ³)
million gallons (10 ⁶ gal)	3785	cubic meters (m ³)
	3.785x10 ⁻³	cubic hectometers (hm ³)
cubic feet (ft ³)	28.32	cubic decimeters (dm ³)
	.02832	cubic meters (m ³)
cfs-day (ft ³ /s-day)	2447	cubic meters (m ³)
	2.447x10 ⁻³	cubic hectometers (hm ³)
acre-feet (acre-ft)	1233	cubic meters (m ³)
	1.233x10 ⁻³	cubic hectometers (hm ³)
	1.233x10 ⁻⁶	cubic kilometers (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	28.32	liters per second (l/s)
	28.32	cubic decimeters per second (dm ³ /s)
	.02832	cubic meters per second (m ³ /s)
gallons per minute (gpm)	.06309	liters per second (l/s)
	.06309	cubic decimeters per second (dm ³ /s)
	6.309x10 ⁻⁵	cubic meters per second (m ³ /s)
million gallons per day (mgd)	43.81	cubic decimeters per second (dm ³ /s)
	.04381	cubic meters per second (m ³ /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.

SURFACE-WATER RECORDS

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PEARL RIVER BASIN

02489500 Pearl River near Bogalusa, La.

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

DRAINAGE AREA.--6,630 sq mi, approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 55.00 ft above mean sea level (levels by Corps of Engineers). Prior to July 29, 1954, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--35 years, 8,825 cfs (18.08 inches per year).

EXTREMES.--Current year: Maximum discharge, 58,000 cfs Mar. 30 (gage height, 20.47 ft); minimum, 1,740 cfs Oct. 21 (gage height, 5.67 ft).

Period of record: Maximum discharge, 88,200 cfs Feb. 23, 1961 (gage height, 21.70 ft); minimum, 1,020 cfs Oct. 29 to Nov. 1, 1963; minimum gage height, 4.84 ft Oct. 30, 31, 1963.
Flood of Apr. 11, 1938, reached a stage of 21.0 ft.

REMARKS.--Records good. Records of chemical analyses, water temperatures, and suspended-sediment loads for the water year 1973 are published in Part 2 of this report.

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	2,040	2,380	4,110	35,200	12,400	10,300	55,800	48,700	10,100	3,420	3,690	2,800
2	2,040	2,280	3,980	34,600	11,400	8,520	54,500	47,400	10,700	3,440	3,940	2,770
3	2,090	2,210	3,860	34,100	12,500	7,370	53,100	45,700	10,400	3,300	4,370	2,790
4	2,090	2,160	3,780	34,100	16,000	7,600	52,400	43,300	9,470	3,190	3,810	2,920
5	2,110	2,160	3,880	33,400	18,700	8,700	51,000	40,600	8,540	3,190	3,930	3,170
6	2,040	2,220	5,250	32,400	20,800	10,100	48,500	37,500	8,560	3,700	4,310	3,740
7	1,960	2,250	10,700	30,700	22,300	11,900	49,200	34,600	8,930	4,410	4,630	4,150
8	1,910	2,240	13,400	30,400	22,800	14,600	48,300	33,000	7,850	5,410	4,680	3,980
9	1,860	2,220	10,200	30,200	23,100	18,800	45,900	32,200	7,160	5,300	4,630	3,980
10	1,840	2,180	7,280	30,400	23,800	22,300	42,500	32,000	7,100	4,500	4,470	3,920
11	1,840	2,170	5,720	30,700	25,200	19,900	39,600	31,800	6,430	3,810	3,940	4,070
12	1,820	2,490	4,970	31,300	26,700	16,800	37,700	33,000	5,560	3,440	3,630	3,930
13	1,790	2,930	4,730	32,000	27,600	17,800	36,100	34,100	5,390	3,230	3,430	4,190
14	1,760	3,550	5,250	32,500	28,100	20,300	34,300	33,900	5,410	3,100	3,140	5,700
15	1,760	3,960	5,800	32,700	27,400	23,200	31,300	31,800	5,850	3,050	3,160	6,220
16	1,760	3,680	6,500	32,400	27,300	24,300	27,700	27,600	5,850	3,030	3,270	5,670
17	1,750	3,530	8,300	31,700	29,200	23,500	29,000	22,400	5,960	2,930	3,650	4,470
18	1,760	3,670	11,100	31,200	31,000	23,800	40,800	19,200	5,520	2,870	3,720	3,820
19	1,760	3,830	12,800	30,700	31,500	25,100	46,300	16,900	5,310	2,820	4,180	3,460
20	1,750	3,890	13,400	30,400	28,800	27,300	44,000	13,600	4,830	2,770	4,530	3,250
21	1,740	3,650	17,300	30,900	23,000	28,800	44,400	12,400	4,490	2,810	4,310	3,110
22	1,760	3,280	27,300	30,900	19,000	29,900	44,400	8,840	5,520	3,110	3,760	3,020
23	1,990	3,060	33,700	30,100	17,300	30,100	44,600	8,080	8,880	3,390	3,420	2,960
24	1,990	2,960	36,900	27,800	16,400	31,000	44,200	7,850	6,560	3,460	3,240	2,930
25	2,890	3,130	38,400	23,400	15,700	37,500	45,700	8,430	5,310	3,460	3,340	2,880
26	2,810	3,950	39,200	17,300	14,600	46,300	45,900	11,400	4,450	3,540	3,480	2,820
27	2,840	4,450	39,200	14,800	13,200	46,100	46,800	13,800	3,940	3,630	3,320	2,700
28	2,970	4,510	38,400	13,500	11,800	50,100	47,400	12,500	3,710	3,820	3,170	2,620
29	2,860	4,590	36,700	13,600	-----	54,700	48,700	10,100	3,540	4,200	3,120	2,590
30	2,660	4,350	35,200	13,800	-----	57,000	49,400	9,500	3,430	4,100	3,090	2,850
31	2,500	-----	36,500	13,500	-----	57,300	-----	10,100	-----	3,800	2,940	-----
TOTAL	64,740	93,900	523,860	870,700	597,600	810,990	1,329,000	772,300	194,800	110,230	116,300	107,550
MEAN	2,090	3,130	16,900	28,090	21,340	26,160	44,300	24,910	6,490	3,560	3,752	3,580
MAX	2,970	4,590	39,200	35,200	31,500	57,300	55,800	48,700	10,700	5,410	4,680	6,220
MIN	1,740	2,160	3,780	13,500	11,400	7,370	27,700	7,850	3,430	2,770	2,940	2,590
CFSM	.32	.47	2.55	4.24	3.22	3.95	6.68	3.77	.98	.54	.57	.54
IN.	.36	.53	2.94	4.88	3.35	4.55	7.45	4.33	1.09	.62	.65	.60

CAL YR 1972: TOTAL 3,442,600 MEAN 9,406 MAX 42,700 MIN 1,720 CFSM 1.42 IN. 19.31
WTR YR 1973: TOTAL 5,591,970 MEAN 15,320 MAX 57,300 MIN 1,740 CFSM 2.31 IN. 31.37

LOCATION.--Lat 30°46'56", long 89°52'24", in SE $\frac{1}{4}$ sec.15, T.3 S., R.13 E., St. Helena meridian, Washington Parish, near center of span on downstream side of bridge on State Highway 439, in Bogalusa, 0.3 mile upstream from Ice Water Branch, 0.9 mile downstream from Adams Creek, and 4.0 miles upstream from mouth.

DRAINAGE AREA.--72.7 sq mi.

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 76.60 ft above mean sea level.

AVERAGE DISCHARGE.--10 years, 97.0 cfs (18.12 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,400 cfs Apr. 18 (gage height, 11.86 ft); minimum, 29 cfs Oct. 12-22 (gage height, 3.73 ft).

Period of record: Maximum discharge, 6,400 cfs Apr. 18, 1973 (gage height, 11.86 ft), from rating curve extended above 1,320 cfs on basis of logarithmic plotting and contracted-opening measurement of peak flow of Nov. 14, 1961, at site 1 mile downstream; minimum, 5.0 cfs Oct. 27, 28, 1967 (gage height, 3.54 ft), affected by temporary regulation.

Flood of Nov. 14, 1961, reached a stage of about 13 ft, from information by local resident.

REMARKS.--Records good. Records of water temperatures for the water year 1973 are published in Part 2 of this report.

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	43	43	83	900	83	86	293	154	86	50	63	77
2	39	43	71	500	124	92	201	219	86	48	92	63
3	37	45	70	234	101	98	169	339	80	48	89	60
4	35	43	66	183	86	304	158	210	74	48	65	63
5	35	41	66	135	80	304	131	150	74	58	55	128
6	35	39	100	118	77	174	124	131	86	124	55	224
7	35	39	700	142	77	178	1,080	298	105	169	58	169
8	33	39	600	174	83	169	870	633	89	115	58	121
9	33	41	350	150	192	135	368	398	86	77	53	98
10	33	41	200	115	219	118	224	229	80	63	48	92
11	31	41	150	108	178	161	174	169	74	55	48	92
12	31	41	130	105	165	234	154	161	71	58	63	174
13	31	53	120	111	187	158	142	224	77	60	63	558
14	31	178	120	108	596	121	128	187	95	50	53	633
15	29	128	140	101	351	111	121	135	105	48	68	270
16	29	68	160	92	205	111	362	121	187	45	74	139
17	29	53	140	83	154	161	2,170	111	158	43	105	101
18	29	53	130	77	135	124	5,300	108	98	45	101	83
19	29	142	120	77	124	98	1,430	105	80	48	71	77
20	29	131	170	74	115	219	502	101	71	48	55	68
21	29	77	300	158	108	187	310	98	74	50	50	63
22	31	60	1,200	270	101	135	244	95	86	98	45	58
23	111	55	1,100	161	101	108	205	92	80	201	41	55
24	121	53	600	105	98	254	244	183	68	101	39	55
25	65	192	320	89	131	1,720	1,460	281	63	95	39	55
26	48	315	200	118	121	1,780	621	201	58	111	39	53
27	131	154	150	121	98	417	310	142	55	169	45	50
28	142	92	130	111	89	219	224	121	53	356	58	53
29	77	80	110	115	-----	333	183	105	53	131	68	68
30	55	80	100	92	-----	293	169	89	53	83	139	89
31	48	-----	200	83	-----	386	-----	83	-----	68	158	-----
TOTAL	1,514	2,460	8,096	5,010	4,179	8,988	18,071	5,673	2,505	2,763	2,058	3,889
MEAN	48.8	82.0	261	162	149	290	602	183	83.5	89.1	66.4	130
MAX	142	315	1,200	900	596	1,780	5,300	633	187	356	158	633
MIN	29	39	66	74	77	86	121	83	53	43	39	50
CFSM	.67	1.13	3.59	2.23	2.05	3.99	8.28	2.52	1.15	1.23	.91	1.79
IN.	.77	1.26	4.14	2.56	2.14	4.60	9.25	2.90	1.28	1.41	1.05	1.99
CAL YR 1972	TOTAL	53,124	MEAN	145	MAX	3,200	MIN	29	CFSM	1.99	IN	27.18
WTR YR 1973	TOTAL	65,206	MEAN	179	MAX	5,300	MIN	29	CFSM	2.46	IN	33.37

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
12-22	unknown	unknown	+1,500	4-18	0600	11.86	6,400
3-25	2215	8.95	3,700				
† About							

PEARL RIVER BASIN

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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 upstream from Fernwood, Columbia and Gulf Railroad bridge, 0.2 mile upstream from Bars Branch, 2.2 miles downstream from Topisaw Creek, and 9.0 miles northwest of Tylertown.

DRAINAGE AREA.--502 sq mi.

PERIOD OF RECORD.--August 1944 to September 1972 (records for 1973 water year not available).

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

AVERAGE DISCHARGE.--28 years, 755 cfs (20.42 inches per year).

EXTREMES.--1971-72: Maximum discharge, 26,700 cfs Dec. 7; maximum gage height, 28.51 ft Dec. 7; minimum discharge not determined, occurred during period of no gage-height record; minimum gage height recorded, 6.16 ft Aug. 9-10, 23-24, but may have been less during period of no gage-height record in September.

Period of record: Maximum discharge, 45,700 cfs Jan. 7, 1950 (gage height, 33.50 ft); minimum, 175 cfs Oct. 31, 1963; minimum gage height recorded, 6.16 ft Aug. 9-10, 23-24, 1972, but may have been less during period of no gage-height record in September 1972.

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

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

NOTE.--Records for 1973 water year are not available in time for inclusion in this report. They will be published in a subsequent report.

PEARL RIVER BASIN

02492000 Bogue Chitto near Bush, La.

LOCATION.--Lat 30°37'45", long 89°53'50", in T.5 S., R.13 E., St. Tammany Parish, near center of span on downstream side of bridge on State Highway 21, 0.2 mile downstream from Gulf, Mobile, and Ohio Railroad bridge, and 1.4 miles north of Bush.

DRAINAGE AREA.--1,210 sq mi, approximately.

PERIOD OF RECORD.--October 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 44.25 ft above mean sea level (levels by Corps of Engineers). Prior to July 22, 1954, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--36 years, 1,838 cfs (20.63 inches per year).

EXTREMES.--Current year: Maximum discharge, 36,900 cfs Mar. 28 (gage height, 14.80 ft); minimum, 550 cfs Oct. 21 (gage height, 2.55 ft).

Period of record: Maximum discharge, 57,000 cfs Feb. 23, 1961 (gage height, 17.04 ft); minimum, 366 cfs Oct. 22, 23, 26, 29, 1968; minimum gage height, 0.7 ft Oct. 1, 1937, Oct. 29-31, 1940, Oct. 22-27, 1941.

REMARKS.--Records good. Records of water temperatures for the water year 1973 are published in Part 2 of this report. See following page for table of daily gage height.

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	707	778	1,060	5,000	1,490	1,050	6,140	4,500	1,310	900	1,260	989
2	665	735	998	5,540	1,500	1,050	7,600	3,200	1,420	880	1,100	985
3	641	711	934	5,540	1,960	1,200	8,600	2,980	1,520	871	1,220	909
4	641	693	909	5,700	2,440	2,000	7,360	3,890	1,590	846	1,390	888
5	644	711	985	6,120	2,550	2,200	5,900	5,500	1,330	821	1,100	1,050
6	634	732	1,880	5,980	2,170	3,000	4,180	5,390	1,260	892	888	1,350
7	637	700	3,620	5,270	1,780	4,500	4,070	4,930	1,220	981	863	1,690
8	634	686	5,820	4,530	1,630	6,000	6,780	5,610	1,220	1,200	842	1,860
9	630	697	7,880	4,410	1,770	10,000	8,680	7,520	1,260	1,140	825	1,810
10	620	686	7,280	4,770	5,390	11,000	7,320	6,080	1,260	998	833	1,510
11	613	686	4,500	4,610	7,000	8,000	5,900	4,960	1,220	918	871	1,320
12	599	683	2,550	3,930	6,500	5,000	4,500	4,500	1,100	850	947	1,250
13	592	697	1,970	3,000	4,000	8,000	3,050	3,820	1,070	812	1,030	1,980
14	589	1,040	1,750	2,570	2,500	10,000	2,590	3,400	1,100	804	1,100	4,380
15	586	1,290	1,760	2,320	6,000	7,000	2,340	2,840	1,100	787	1,290	5,880
16	586	1,110	1,840	2,130	11,000	4,000	2,280	2,180	1,120	753	1,490	4,480
17	580	1,050	1,810	1,990	15,000	3,000	4,850	1,990	1,700	718	1,810	2,680
18	562	939	2,010	1,890	10,000	3,500	16,100	1,790	1,430	697	1,740	1,770
19	559	1,170	1,910	1,800	5,000	5,380	31,800	1,690	1,290	725	1,490	1,400
20	556	1,220	1,650	1,740	3,000	5,090	32,100	1,600	1,200	728	1,280	1,200
21	553	1,110	3,450	1,810	2,000	4,480	28,000	1,520	1,220	1,130	1,100	1,100
22	568	985	6,380	2,290	1,600	3,530	17,700	1,420	1,250	1,500	955	1,050
23	704	909	10,500	3,300	1,400	2,880	9,650	1,400	1,700	1,250	859	1,000
24	998	846	14,700	3,190	1,300	2,720	5,860	1,380	1,310	1,020	800	970
25	1,180	955	18,500	2,510	1,200	5,630	4,560	1,820	1,370	1,280	756	950
26	968	1,540	11,700	2,140	1,150	22,500	5,980	2,360	1,120	1,420	739	909
27	960	1,620	5,740	1,950	1,100	29,000	7,680	2,100	1,010	1,470	756	888
28	1,100	1,400	3,290	1,840	1,050	35,300	7,140	1,820	960	1,510	778	901
29	1,060	1,270	2,590	1,780	-----	24,800	6,350	1,590	939	1,600	918	918
30	943	1,160	2,320	1,690	-----	11,100	5,740	1,420	943	1,460	1,200	1,130
31	867	-----	3,070	1,580	-----	6,780	-----	1,350	-----	1,220	1,110	-----
TOTAL	22,176	28,809	135,356	102,920	103,480	249,690	270,800	96,550	37,542	32,181	33,340	49,197
MEAN	715	960	4,366	3,320	3,696	8,055	9,027	3,115	1,251	1,038	1,075	1,640
MAX	1,180	1,620	18,500	6,120	15,000	35,300	32,100	7,520	1,700	1,600	1,810	5,880
MIN	553	683	909	1,580	1,050	1,050	2,280	1,350	939	697	739	888
CFSM	.59	.79	3.61	2.74	3.05	6.66	7.46	2.57	1.03	.86	.89	1.36
IN.	.68	.89	4.16	3.16	3.18	7.68	8.33	2.97	1.15	.99	1.02	1.51
CAL YR 1972	TOTAL	762,531	MEAN	2,083	MAX	18,500	MIN	553	CFSM	1.72	IN	23.44
WTR YR 1973	TOTAL	1,162,041	MEAN	3,184	MAX	35,300	MIN	553	CFSM	2.63	IN	35.73

PEAK DISCHARGE (BASE, 8,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
12- 9	2115	10.42	8,480	3-14	unknown	unknown	†10,600
12-25	1000	12.43	19,400	3-28	1230	14.80	36,900
2-17	unknown	unknown	†16,000	4-19	2000	14.57	35,100
3-10	unknown	unknown	†11,700				

† About

PEARL RIVER BASIN

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02492000 Bogue Chitto near Bush, La.--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.02	3.22	3.89	9.10	4.83	--	9.72	8.79	4.83	--	4.73	4.11
2	2.90	3.10	3.74	9.40	4.86	--	10.20	7.76	5.08	3.85	4.37	4.10
3	2.83	3.03	3.59	9.41	5.77	--	10.45	7.48	5.28	3.83	4.63	3.92
4	2.83	2.98	3.53	9.50	6.61	--	10.13	8.35	5.43	3.77	5.02	3.87
5	2.84	3.03	3.71	9.71	6.80	--	9.58	9.38	4.88	3.71	--	4.25
6	2.81	3.09	5.59	9.64	6.16	--	8.58	9.33	4.73	3.88	3.87	4.92
7	2.82	3.00	8.05	9.26	5.41	--	8.50	9.07	4.63	4.09	3.81	5.62
8	2.81	2.96	9.54	8.83	5.11	--	9.90	9.45	4.63	--	3.76	5.96
9	2.80	2.99	10.27	8.75	5.40	--	10.47	10.18	4.73	4.46	3.72	5.86
10	2.77	2.95	10.09	8.98	9.33	--	10.12	10.08	4.73	4.13	3.74	5.26
11	2.75	2.96	8.75	8.88	--	--	9.59	9.48	4.64	3.94	3.83	4.86
12	2.71	2.95	6.79	8.41	--	--	8.78	--	4.37	3.78	4.01	4.71
13	2.69	2.99	5.80	7.50	--	--	7.56	8.73	4.31	3.69	4.20	6.10
14	2.68	3.84	5.35	6.84	--	--	6.86	8.38	4.36	3.67	4.36	9.08
15	2.67	4.41	5.38	6.42	--	--	6.45	7.68	4.36	3.63	4.79	9.98
16	2.67	4.00	5.53	6.10	--	--	6.35	6.58	4.41	3.54	5.23	9.16
17	2.65	3.87	5.48	5.84	--	--	8.87	6.23	--	3.44	5.86	7.34
18	2.59	3.60	5.87	5.63	--	--	11.86	5.83	5.10	3.38	5.72	5.78
19	2.58	4.14	5.68	5.46	--	9.32	14.13	5.63	4.78	3.46	5.23	--
20	2.57	4.25	5.16	5.33	--	9.16	14.18	--	4.59	3.47	4.75	--
21	2.56	4.00	7.82	5.48	--	8.79	13.62	5.28	4.63	4.43	4.36	--
22	2.60	3.71	9.74	6.36	--	8.09	12.16	5.08	4.71	--	4.03	--
23	3.00	3.53	10.89	7.87	--	7.33	10.69	5.03	5.64	4.69	3.80	--
24	3.74	3.38	11.70	7.73	--	7.05	9.56	4.98	4.84	4.18	3.66	--
25	4.16	3.64	12.30	6.73	--	9.36	8.85	5.88	4.96	4.77	3.55	--
26	3.67	4.92	11.12	6.11	--	12.80	9.61	6.88	4.42	5.08	3.50	3.92
27	3.65	5.09	9.45	5.76	--	13.77	10.22	--	4.17	5.18	3.55	3.87
28	3.97	4.64	7.81	5.54	--	14.59	10.08	5.88	4.04	5.26	3.61	3.90
29	3.88	4.36	6.87	5.42	-----	13.18	9.81	5.43	3.99	--	3.94	3.94
30	3.61	4.10	6.41	5.24	-----	11.00	9.51	5.08	4.00	5.17	4.60	4.43
31	3.43	-----	7.49	5.01	-----	9.94	-----	4.93	-----	4.63	4.38	-----
MAX	4.16	5.09	12.30	9.71	--	--	14.18	--	--	--	--	--
MIN	2.56	2.95	3.53	5.01	--	--	6.35	--	--	--	--	--

NOTE.--Gage height for period May 8 to Aug. 16 computed from twice-daily staff-gage readings.

LOWER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER MAIN STEM

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 downstream from Yazoo diversion canal, and at mile 430.4.

DRAINAGE AREA.--1,144,500 sq mi, approximately.

PERIOD OF RECORD.--Discharge: January 1928 to September 1972 (records for 1973 water year not available). Prior to July 1931, monthly discharge only, published in WSP 1311.

Gage heights: April 1930 to September 1972 in reports of Geological Survey. Since December 1871, referred to canal gages (above 30.0 ft only, since December 1949), and since 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 upstream in reports of Corps of Engineers. Since May 1873, in reports of U.S. Weather Bureau.

Extremes of stage intermittently 1828-71 and continuous since 1871, extremes of discharge for various years 1858-1926 and continuous 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 the Geological Survey. Supplementary water-stage recorder on left bank at site 1.1 miles upstream, maintained by Corps of Engineers. Datum of gage is 46.22 ft above mean sea level (Corps of Engineers bench mark) or 46.16 ft above mean Gulf level. See WRD LA 1969 or WRD MISS 1971 for history of changes prior to water year 1970 and for history of gages used by the various data-collecting agencies. All gages at same datum, but readings differ due to slope of water surface between them.

AVERAGE DISCHARGE.--44 years, 552,600 cfs (400,400,000 acre-ft per year).

EXTREMES.--1971-72: Maximum daily discharge, 1,147,000 cfs May 8; maximum gage height, 37.34 ft May 13 at bridge gage, 38.85 ft at supplementary recorder; minimum daily discharge, 208,000 cfs Oct. 20, minimum gage height, 3.85 ft Oct. 21 at supplementary recorder. Period of record: Maximum discharge, 2,080,000 cfs Feb. 17, 1937; maximum gage height, 53.2 ft Feb. 21, 1937; minimum discharge, 99,400 cfs Nov. 1, 1939; minimum gage height, -7.02 ft Feb. 3, 1940 (ice jam above).

Maximum stage known since at least 1871, 58.4 ft (Corps of Engineers gage on Yazoo diversion canal), approximately 56.0 ft May 4, 1927 (Geological Survey gage).

REMARKS.--Records excellent. Natural flow of stream affected by many reservoirs and navigation dams.

COOPERATION.--Supplementary gage-height records, ninety-six discharge measurements, and records of daily discharge furnished by Corps of Engineers; gage-height records obtained and records reviewed by Geological Survey.

REVISIONS.--WSP 747: Drainage area.

NOTE.--Records for 1973 water year are not available in time for inclusion in this report. They will be published in a subsequent report.

RECORDS FOR 1972 WATER YEAR ARE PUBLISHED ON PAGE 145 OF THIS REPORT.

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LOCATION.--Lat 32°53'35", long 93°49'20", in SW¹/₄ sec.16, T.22 N., R.14 W., Caddo-Bossier Parish line, near left bank on downstream side of bridge on State Highway 2, 1.8 miles downstream from Dry Bayou, and 3.2 miles east of Hosston.

PERIOD OF RECORD.--October 1957 to September 1968. October 1968 to current year (discharge below 5,000 cfs only).

AVERAGE DISCHARGE.--11 years (1958-68), 17,920 cfs (12,980,000 acre-ft per year).

Period of record: Maximum discharge, 214,000 cfs May 7, 1958 (gage height, 27.89 ft); minimum daily, 803 cfs Sept. 16, 17, 1972.

REMARKS.--Records fair. Regulation since July 1942 by Lake Texoma (capacity, 5,392,900 acre-ft), since July 1953 by Texarkana Reservoir (capacity, 2,654,300 acre-ft), and since August 1966 by Millwood Lake (capacity, 1,854,900 acre-ft). Records of chemical analyses and water temperatures for the water year 1973 are published in Part 2 of this report. See following page for table of daily gage height.

[illegible]

RED RIVER BASIN

07344400 Red River near Hosston, La.--Continued

MEAN GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.38	6.87	9.70	8.42	13.30	9.32	17.57	19.57	9.37	10.39	5.39	5.87
2	4.05	7.35	9.17	8.24	13.07	9.23	16.97	19.90	9.15	9.72	5.76	5.62
3	3.74	13.84	9.15	8.22	12.95	9.45	16.54	19.87	8.64	9.22	5.48	5.54
4	3.47	17.10	9.12	8.78	13.10	11.42	16.19	19.85	8.44	8.87	5.01	5.61
5	3.39	17.46	9.05	8.92	13.55	13.72	15.94	20.00	9.83	8.54	4.89	5.78
6	3.40	17.14	9.02	8.94	13.90	15.80	15.78	20.34	16.32	7.88	4.62	6.27
7	3.41	16.97	9.05	9.04	13.65	17.20	15.49	20.47	17.11	7.38	4.56	6.82
8	3.42	16.73	9.15	9.62	13.55	18.00	14.97	20.02	17.92	7.17	4.80	7.07
9	3.14	16.48	9.25	11.14	13.77	17.88	14.90	19.57	19.70	7.19	4.57	7.08
10	2.63	16.32	9.30	11.67	15.20	17.58	14.96	20.08	20.12	7.08	4.66	9.17
11	2.43	16.18	9.42	11.70	16.72	17.60	14.82	21.02	19.85	6.80	5.46	12.25
12	2.40	16.04	9.74	11.48	17.05	18.05	14.75	20.95	19.96	6.67	6.04	12.93
13	2.43	15.85	10.10	11.14	16.57	18.90	14.56	20.00	20.22	6.73	6.17	11.60
14	2.60	15.67	10.54	10.88	15.77	19.67	13.95	19.85	20.27	6.67	6.02	10.25
15	2.71	15.52	10.87	10.65	15.07	20.32	13.31	19.73	19.97	6.28	5.65	9.43
16	2.75	15.34	11.35	9.42	13.57	20.55	13.47	19.54	19.17	6.48	5.53	8.75
17	2.80	15.19	12.34	8.88	13.39	20.03	14.47	18.95	18.18	6.92	5.51	8.25
18	2.88	15.08	12.84	8.45	13.67	19.25	16.07	18.21	17.14	7.12	5.53	8.10
19	3.12	15.01	12.75	8.31	12.71	18.39	18.22	17.32	16.45	7.17	5.40	8.35
20	3.37	14.94	12.33	8.22	12.17	17.48	19.04	16.19	15.76	7.04	5.24	9.23
21	3.71	14.89	11.68	8.17	11.78	16.58	19.70	15.14	15.11	6.92	5.32	8.85
22	4.20	14.89	10.95	8.99	11.15	15.89	20.12	14.40	14.98	6.93	5.72	8.28
23	4.18	14.79	10.22	10.17	10.80	15.28	19.77	13.54	15.33	7.12	6.15	8.10
24	3.90	14.25	9.74	11.48	10.62	15.18	19.93	12.65	15.85	7.24	6.00	7.79
25	3.70	13.97	9.55	11.88	10.23	15.62	20.52	12.01	15.64	7.30	5.75	7.44
26	3.75	13.81	9.23	12.15	9.78	16.88	21.00	11.60	14.58	7.12	5.48	7.18
27	4.78	13.42	9.11	12.40	9.45	18.23	21.35	11.14	13.14	6.71	5.30	6.95
28	5.67	11.64	9.02	12.11	9.43	18.85	21.75	10.48	11.92	6.01	5.37	6.81
29	5.89	11.10	8.80	11.05	-----	19.08	21.87	10.00	10.88	5.47	5.75	6.65
30	6.65	10.67	8.65	11.74	-----	18.87	21.07	9.65	10.55	5.18	5.94	7.02
31	6.78	-----	8.54	12.98	-----	18.30	-----	9.54	-----	5.16	5.87	-----
MAX	6.78	17.46	12.84	12.98	17.05	20.55	21.87	21.02	20.27	10.39	6.17	12.93
MIN	2.40	6.87	8.54	8.17	9.43	9.23	13.31	9.54	8.44	5.16	4.56	5.54

07344450 Paw Paw Bayou near Greenwood, La.

LOCATION.--Lat 32°31'00", long 93°58'20", in SE $\frac{1}{4}$ sec.26, T.18 N., R.16 W., Caddo Parish, near center of span on downstream side of bridge on State Highway 169, 1 mile upstream from Cross Lake, 5.1 miles north of Greenwood, and 11 miles west of Shreveport.

DRAINAGE AREA.--78 sq mi.

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 170.35 ft above mean sea level (Louisiana Geodetic Survey bench mark).

AVERAGE DISCHARGE.--18 years, 58.2 cfs (10.13 inches per year, 42,170 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 3,840 cfs Apr. 25 (gage height, 11.86 ft); no flow Oct. 1-21, 25, Sept. 2, 3.

Period of record: Maximum discharge, 7,310 cfs Apr. 27, 1958 (gage height, 13.84 ft), from rating curve extended above 2,200 cfs; no flow at times each year.

REMARKS.--Records fair. Records of chemical analyses and water temperatures for the water year 1973 are published in Part 2 of this report.

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	0	55	8.0	262	396	20	81	28	1.1	1.9	7.0	.01
2	0	17	7.0	90	952	93	48	27	.86	1.7	7.9	0
3	0	25	6.0	56	519	130	37	24	.66	1.3	3.8	0
4	0	18	5.0	63	147	275	37	18	12	1.1	2.0	.01
5	0	11	4.0	78	60	501	33	13	194	.82	1.1	33
6	0	30	10	259	47	444	26	11	378	.70	.62	163
7	0	58	20	513	39	450	40	36	504	501	.40	191
8	0	11	40	755	223	462	86	51	207	1,590	.28	52
9	0	20	100	628	456	237	179	26	28	715	.22	30
10	0	59	320	310	444	83	258	14	13	214	.18	14
11	0	50	572	88	144	138	119	8.8	8.6	29	.14	5.5
12	0	20	588	57	62	132	47	6.9	25	16	.12	3.5
13	0	27	420	47	50	59	34	6.1	47	11	.08	2.4
14	0	100	426	41	57	43	27	7.5	308	7.3	.05	1.8
15	0	64	878	36	42	41	23	5.3	1,290	6.0	.05	1.3
16	0	35	862	32	31	147	175	3.8	825	13	.03	1.0
17	0	12	495	28	25	544	375	3.0	324	14	.02	.78
18	0	57	140	26	23	528	459	2.6	49	25	.02	.62
19	0	310	59	26	21	191	326	2.3	22	11	1.0	.52
20	0	620	54	27	20	62	143	2.1	27	5.5	1.7	.43
21	0	304	49	258	19	44	78	1.9	72	3.6	.82	.37
22	.06	92	40	700	18	35	69	1.7	31	2.6	.31	.28
23	.14	44	31	426	19	29	59	1.4	15	2.3	.18	.20
24	.02	25	24	105	20	211	790	1.2	9.7	2.2	.12	.18
25	0	35	21	58	20	1,480	2,830	1.5	6.6	1.4	.06	2.5
26	.67	99	18	320	19	840	980	1.9	4.7	1.1	.03	16
27	62	133	16	656	19	366	468	2.6	3.7	.82	.02	6.9
28	103	78	14	528	19	88	114	3.6	2.9	.62	.02	34
29	33	13	14	300	-----	350	50	3.4	2.3	.86	.01	145
30	200	10	86	105	-----	495	34	2.4	1.8	.78	.01	49
31	100	-----	259	64	-----	184	-----	1.7	-----	2.6	.01	-----
TOTAL	498.89	2,432	5,586.0	6,942	3,911	8,702	8,025	319.7	4,413.92	3,184.20	28.30	755.30
MEAN	16.1	81.1	180	224	140	281	268	10.3	147	103	.91	25.2
MAX	200	620	878	755	952	1,480	2,830	51	1,290	1,590	7.9	191
MIN	0	10	4.0	26	18	20	23	1.2	.66	.62	.01	0
CFSM	.21	1.04	2.31	2.87	1.79	3.60	3.44	.13	1.88	1.32	.01	.32
IN.	.24	1.16	2.66	3.31	1.87	4.15	3.83	.15	2.11	1.52	.01	.36
AC-FT	490	4,820	11,080	13,770	7,760	17,260	15,920	634	8,760	6,320	56	1,500

CAL YR 1972 TOTAL 15,122.97 MEAN 41.3 MAX 1,230 MIN 0 CFSM .53 IN 7.21 AC-FT 30,000
WTR YR 1973 TOTAL 44,798.31 MEAN 123 MAX 2,830 MIN 0 CFSM 1.58 IN 21.37 AC-FT 88,860

PEAK DISCHARGE (BASE, 800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1815	9.40	1,130	4-25	0300	11.86	3,840
1- 8	1645	8.91	805	6-15	1400	9.89	1,590
2- 2	0045	9.38	1,110	7- 8	0700	10.41	2,140
3-25	0700	10.14	1,840				

RED RIVER BASIN

07348000 Twelvemile Bayou near Dixie, La.

LOCATION.--Lat 32°38'45", long 93°52'40", in NW¼NW¼ sec.14, T.19 N., R.15 W., Caddo Parish, near right bank on downstream side of pier of bridge on State Highway 173, 0.1 mile downstream from Cottonwood Bayou, 4.2 miles southwest of Dixie, 5.5 miles downstream from Caddo Lake, and 17.3 miles upstream from mouth.

DRAINAGE AREA.--3,137 sq mi.

PERIOD OF RECORD.--August 1942 to current year.

GAGE.--Water-stage recorder. Datum of gage is 140.00 ft above mean sea level. Prior to Sept. 5, 1947, nonrecording gage and Sept. 5, 1947, to Sept. 30, 1950, water-stage recorder at datum 5.88 ft higher. Oct. 1, 1950, to Sept. 30, 1962, water-stage recorder at datum 3.88 ft higher. Nonrecording gage for Red River at Shreveport (sta 07348500) read once daily used as auxiliary gage for this station.

AVERAGE DISCHARGE.--31 years, 2,492 cfs (10.79 inches per year, 1,805,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 21,700 cfs Apr. 30 (gage height, 31.36 ft); minimum daily, 2.0 cfs Aug. 28.

Period of record: Maximum discharge, 38,400 cfs May 5, 1958; maximum gage height, 39.53 ft Apr. 5, 1945, and May 5, 1958, present datum; minimum discharge, 0.08 cfs Aug. 24, 1972 (gage height, 0.31 ft).

REMARKS.--Records good except those for periods of no gage-height record, which are poor. Flow regulated by Ellison Creek (usable capacity, 24,500 acre-ft) since January 1943; Lake O' the Pines (usable capacity, 839,200 acre-ft of which 587,200 acre-ft is available for flood storage) since August 1957; and Caddo Lake (usable capacity, 170,000 acre-ft). Records of chemical analyses and water temperatures for the water year 1973 are published in Part 2 of this report. See following page for table of daily gage height.

REVISIONS.--WSP 1211: Drainage area.

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	6.0	349	2,200	3,210	6,200	2,290	12,800	21,300	1,970	2,120	288	3.0		
2	5.0	339	2,300	2,960	7,310	2,540	12,100	20,600	1,790	1,800	213	2.9		
3	5.0	516	2,400	2,980	6,580	2,490	11,500	19,800	1,580	1,510	150	2.7		
4	5.0	2,350	2,500	2,810	6,240	3,300	11,000	18,700	1,620	1,270	100	2.7		
5	4.0	1,300	3,000	2,790	6,000	3,850	10,400	17,600	2,160	1,000	80	9.0		
6	4.6	564	3,500	2,770	6,200	4,000	9,670	16,600	3,040	833	65	599		
7	4.6	896	4,000	3,590	6,400	4,780	8,970	15,800	3,450	1,150	55	927		
8	4.4	1,280	4,500	4,230	6,600	4,880	8,330	14,700	3,430	1,250	60	972		
9	4.3	1,130	5,000	4,060	6,800	4,930	8,480	13,400	3,870	986	65	986		
10	4.2	978	6,000	3,860	7,000	5,070	7,800	12,000	4,230	826	55	986		
11	4.2	512	7,000	3,820	6,800	5,560	6,990	10,400	5,060	694	40	1,350		
12	4.4	422	7,500	3,740	6,700	5,740	6,440	9,500	5,870	511	30	1,960		
13	4.4	1,880	7,800	3,560	6,620	5,970	5,880	8,550	6,980	458	20	2,080		
14	4.4	2,190	7,700	3,450	6,580	6,400	5,420	7,620	7,080	418	10	2,020		
15	5.8	1,680	7,470	3,350	6,170	6,780	4,960	6,910	9,500	328	8.0	1,890		
16	5.5	1,630	7,280	3,250	5,730	8,490	6,060	6,240	9,490	300	6.0	1,810		
17	5.5	1,660	6,950	3,080	5,250	10,000	7,870	5,640	9,390	244	4.0	1,770		
18	5.8	2,390	6,740	3,010	4,970	10,800	8,620	5,270	8,720	235	3.5	1,680		
19	12	3,750	6,570	2,870	4,740	11,000	9,310	5,030	8,140	228	3.0	1,610		
20	8.0	3,500	6,210	2,670	4,480	11,000	10,200	4,720	7,780	196	4.0	1,730		
21	7.8	3,220	5,910	3,130	4,200	10,900	11,000	4,390	7,170	156	6.0	1,720		
22	41	3,140	5,480	3,170	3,890	10,600	12,100	4,210	6,500	120	9.0	1,600		
23	220	2,960	4,960	3,040	3,630	10,100	13,300	4,040	5,970	96	7.0	1,460		
24	207	2,800	4,810	2,960	3,280	10,200	14,600	3,970	5,250	92	5.0	1,530		
25	147	2,500	4,400	2,920	3,010	11,700	17,100	3,770	4,820	91	4.0	1,750		
26	143	2,400	4,190	3,950	2,810	12,600	19,300	3,630	4,410	82	3.0	1,580		
27	810	2,300	3,870	4,230	2,580	12,600	20,300	3,670	4,050	90	2.5	1,450		
28	879	2,200	3,540	4,820	2,370	12,600	21,000	3,480	3,410	80	2.0	1,800		
29	524	2,100	3,280	4,320	-----	12,500	21,600	2,910	2,870	100	2.3	1,720		
30	424	2,100	3,410	4,070	-----	13,300	21,700	2,580	2,430	150	3.7	1,610		
31	370	-----	3,470	3,980	-----	13,300	-----	2,220	-----	235	4.2	-----		
TOTAL	3,879.9	55,036	153,940	106,650	149,140	250,970	344,800	279,250	152,030	17,649	1,308.2	38,610.3		
MEAN	125	1,835	4,966	3,440	5,326	8,096	11,490	9,008	5,068	569	42.2	1,287		
MAX	879	3,750	7,800	4,820	7,310	13,300	21,700	21,300	9,500	2,120	288	2,080		
MIN	4.0	339	2,200	2,670	2,370	2,290	4,960	2,220	1,580	80	2.0	2.7		
CFSM	.04	.58	1.58	1.10	1.70	2.58	3.67	2.87	1.62	.18	.01	.41		
IN.	.05	.65	1.82	1.26	1.77	2.98	4.09	3.31	1.80	.21	.02	.46		
AC-FT	7,700	109,200	305,300	211,500	295,800	497,800	683,900	553,900	301,600	35,010	2,600	76,580		
CAL YR 1972:	TOTAL	462,579.6	MEAN	1,264	MAX	7,800	MIN	.14	CFSM	.40	IN.	5.48	AC-FT	917,500
WTR YR 1973:	TOTAL	1,553,263.4	MEAN	4,256	MAX	21,700	MIN	2.0	CFSM	1.36	IN.	18.42	AC-FT	3,081,000

RED RIVER BASIN

31

07343000 Twelvemile Bayou near Dixie, La.--Continued

MEAN GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.14	3.84	--	11.96	18.08	9.62	26.42	31.16	8.80	9.06	2.86	.72
2	1.14	3.80	--	11.32	19.64	10.28	25.83	30.82	8.33	8.23	2.53	.71
3	1.14	4.46	--	11.38	18.78	10.13	25.27	30.38	7.68	7.47	--	.68
4	1.14	9.96	--	10.96	18.22	12.18	24.77	29.85	7.90	6.82	--	.68
5	1.13	11.82	--	10.90	--	13.50	24.08	29.28	9.30	6.07	--	1.65
6	1.15	11.80	--	10.85	--	14.34	23.15	28.76	11.97	5.57	--	4.62
7	1.15	11.90	--	12.87	--	16.29	22.25	28.31	14.42	6.48	--	6.02
8	1.16	11.59	--	14.36	--	16.70	21.37	27.70	15.86	6.75	--	6.13
9	1.15	11.05	--	13.98	--	17.02	21.60	26.83	16.87	6.02	--	6.17
10	1.15	10.85	--	13.54	--	17.10	20.66	25.75	17.83	5.55	--	6.17
11	1.15	10.70	--	13.44	--	17.81	19.43	24.82	18.72	5.13	--	7.18
12	1.16	10.72	--	13.26	--	18.11	18.56	23.91	19.57	4.45	--	8.79
13	1.16	11.54	--	12.82	18.85	18.62	17.58	22.70	20.84	4.24	--	9.12
14	1.16	11.16	--	12.56	18.78	19.44	16.74	21.47	22.54	4.08	--	8.93
15	1.22	10.04	20.16	12.30	18.10	20.17	15.90	20.58	23.81	3.70	--	8.61
16	1.21	9.56	19.88	12.04	17.30	22.53	18.42	19.76	23.64	3.58	--	8.39
17	1.21	9.35	19.37	11.62	16.43	24.25	20.73	18.91	22.80	3.33	--	8.29
18	1.22	11.81	19.05	11.44	15.91	24.58	21.79	18.08	21.92	3.29	--	8.05
19	1.34	13.94	18.76	11.09	15.45	24.70	22.70	17.36	21.11	3.26	--	7.88
20	1.28	13.41	18.16	10.59	14.92	24.78	23.79	16.45	20.60	3.11	--	8.18
21	1.27	12.72	17.63	11.76	14.28	24.60	24.81	15.65	19.70	2.92	--	8.15
22	1.62	12.40	16.85	11.86	13.60	24.25	25.86	15.06	18.65	2.62	--	7.85
23	2.66	11.98	15.90	11.52	12.99	23.73	26.78	14.53	17.74	2.57	--	7.46
24	2.60	--	15.60	11.33	12.13	23.80	27.63	13.77	17.04	2.55	--	7.66
25	2.30	--	14.74	11.22	11.44	25.50	29.16	13.38	16.34	2.54	--	8.24
26	2.28	--	14.27	13.70	10.94	26.24	30.16	13.01	15.29	2.48	--	7.80
27	5.02	--	13.50	14.36	10.38	26.27	30.66	13.11	13.87	--	--	7.57
28	5.34	--	12.77	15.62	9.82	26.26	31.02	12.63	12.35	--	--	8.36
29	4.23	--	12.12	14.56	-----	26.70	31.28	11.20	10.99	--	--	8.15
30	3.94	--	12.44	14.00	-----	26.80	31.35	10.36	9.88	--	--	7.86
31	3.82	-----	12.60	13.80	-----	26.75	-----	9.46	-----	2.62	--	-----
MAX	5.34	13.94	--	15.62	19.64	--	31.35	31.16	23.81	9.06	2.86	9.12
MIN	1.13	3.80	12.12	10.59	9.82	9.62	15.90	9.46	7.68	--	--	.68

RED RIVER BASIN

07348500 Red River at Shreveport, La.

LOCATION.--Lat 32°30'55", long 93°44'25", in SE¼SE¼ sec.30, T.18 N., R.13 W., Caddo Parish, on second pier from east bank, at Illinois Central Railroad bridge at Shreveport, 0.5 mile downstream from Cross Bayou.

DRAINAGE AREA.--60,613 sq mi, of which 5,936 sq mi above Denison Dam is noncontributing.

PERIOD OF RECORD.--August 1928 to September 1972. Daily gage heights since May 1873 and discharge intermittently 1872 to 1905 in reports of Mississippi River Commission.

GAGE.--Water-stage recorder. Datum of gage is 131.48 ft above mean sea level (levels by Corps of Engineers). Prior to June 1, 1918, nonrecording gage at same site at datum 10 ft higher.

AVERAGE DISCHARGE.--44 years, 23,760 cfs (17,214,000 acre-ft per year).

EXTREMES.--1971-72: Maximum discharge, 134,000 cfs Dec. 16 (gage height, 24.95 ft); minimum daily, 2,300 cfs Oct. 2.
Period of record: Maximum discharge, 303,000 cfs Apr. 5, 1945 (discharge measurement); maximum gage height, 37.9 ft in gage well, 38.4 ft from outside gage, Apr. 7, 1945; minimum discharge, 690 cfs Oct. 30, 1956; minimum gage height, 0.24 ft Nov. 9, 1939.

REMARKS.--Regulation by Lake Texoma, Millwood Reservoir, and Texarkana Reservoir.

COOPERATION.--Gage-height record, and computations of daily discharge furnished by Corps of Engineers; records reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1211: Drainage area. WSP 1920: 1960(M).

NOTE.--Records for 1973 water year are not available in time for inclusion in this report. They will be published in a subsequent report.

RED RIVER BASIN

33

07348700 Bayou Dorcheat near Springhill, La.

LOCATION.--Lat 32°59'40", long 93°23'47", in NE 1/4 sec. 16, T. 23 N., R. 10 W., Webster Parish, near left bank on downstream side of bridge on State Highway 157, 0.4 mile downstream from Crooked Creek, 1.7 miles downstream from Arkansas-Louisiana State line, and 2.8 miles southeast of Springhill city limits.

DRAINAGE AREA.--605 sq mi.

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 173.91 ft above mean sea level.

AVERAGE DISCHARGE.--16 years, 493 cfs (11.07 inches per year, 357,200 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 19,200 cfs Apr. 26 (gage height, 17.68 ft); minimum, 7.0 cfs Oct. 10, 11 (gage height, 3.54 ft).

Period of record: Maximum discharge, 36,400 cfs Apr. 28, 1958 (gage height, 22.79 ft); no flow Oct. 10-14, 1957.

REMARKS.--Records good above 200 cfs and poor below. Records of chemical analyses and water temperatures for the water year 1973 are published in Part 2 of this report.

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	23	247	818	700	2,980	365	2,130	2,500	92	113	95	14
2	22	262	726	750	3,130	439	1,890	1,960	92	187	199	20
3	22	248	599	850	3,450	504	1,630	1,560	88	342	345	25
4	24	226	471	1,000	3,560	679	1,360	1,260	98	467	428	22
5	23	187	367	1,100	3,170	837	1,110	1,030	103	419	395	85
6	12	154	297	1,300	2,730	985	917	845	102	272	238	145
7	10	241	246	1,500	2,330	1,320	770	961	116	262	126	370
8	9.5	267	252	1,600	2,390	1,900	638	762	150	293	80	617
9	9.1	299	417	1,600	2,210	2,450	617	568	168	300	56	839
10	7.5	348	1,400	1,500	2,080	2,660	599	517	162	298	41	1,150
11	8.2	375	3,370	1,400	2,280	2,650	608	544	149	286	33	1,580
12	11	419	7,650	1,300	2,820	2,470	657	502	138	225	27	1,590
13	13	552	7,820	1,200	2,930	2,550	714	365	120	171	24	1,300
14	15	563	6,410	1,100	2,600	2,600	739	250	107	179	36	989
15	16	478	5,420	1,000	2,180	2,700	716	184	137	219	61	704
16	16	419	4,780	950	1,850	3,750	1,510	149	264	223	49	376
17	17	390	4,000	870	1,630	5,420	1,820	123	380	286	37	170
18	18	529	3,500	802	1,460	7,600	2,610	103	395	311	30	110
19	27	908	3,000	749	1,290	6,490	2,940	87	365	313	35	84
20	23	931	2,500	726	1,120	4,850	2,770	75	299	417	31	68
21	18	979	2,000	780	949	3,640	2,530	66	234	498	30	56
22	24	1,070	1,800	842	796	2,730	2,280	58	209	538	33	46
23	27	1,190	1,700	903	655	2,130	2,010	50	172	561	28	40
24	15	1,250	1,600	989	542	2,020	2,550	47	134	452	22	35
25	12	1,310	1,400	1,150	461	2,330	7,300	49	104	330	17	31
26	16	1,240	1,300	1,570	410	2,570	17,400	46	77	236	14	28
27	153	1,130	1,100	1,880	385	3,390	15,400	58	59	155	11	26
28	124	1,020	1,000	2,020	367	3,620	8,460	59	46	115	11	35
29	119	937	900	2,030	-----	3,500	5,110	54	40	91	14	42
30	183	877	800	2,080	-----	2,930	3,430	64	76	73	13	47
31	226	-----	750	2,160	-----	2,450	-----	83	-----	72	12	-----
TOTAL	1,243.3	19,038	68,393	38,401	52,755	84,529	93,215	14,979	4,676	8,704	2,571	10,644
MEAN	40.1	635	2,206	1,239	1,884	2,727	3,107	483	156	281	82.9	355
MAX	226	1,310	7,820	2,160	3,560	7,600	17,400	2,500	395	561	428	1,590
MIN	7.5	154	246	700	367	365	599	46	40	72	11	14
CFSM	.07	1.05	3.65	2.05	3.11	4.51	5.14	.80	.26	.46	.14	.59
IN.	.08	1.17	4.21	2.36	3.24	5.20	5.73	.92	.29	.54	.16	.65
AC-FT	2,470	37,760	135,700	76,170	104,600	167,700	184,900	29,710	9,270	17,260	5,100	21,110
CAL YR 1972	TOTAL 150,498.1	MEAN 411	MAX 7,820	MIN 2.3	CFSM .68	IN 9.25	AC-FT 298,500					
WTR YR 1973	TOTAL 399,148.3	MEAN 1,094	MAX 17,400	MIN 7.5	CFSM 1.81	IN 24.54	AC-FT 791,700					

PEAK DISCHARGE (BASE, 3,000 CFS)

Note.--No gage-height record Dec. 18 to Jan. 16.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-12	2030	15.65	9,300	3-28	0115	13.63	3,640
2-3	2230	13.64	3,660	4-26	1700	17.68	19,200
3-18	1130	15.27	7,840				

RED RIVER BASIN

07348800 Flat Lick Bayou near Leton, La.

LOCATION.--Lat 32°46'11", long 93°15'58", in NW¼ sec.35, T.21 N., R.9 W., Webster Parish, near left bank on downstream side of bridge on State Highway 159, 0.5 mile downstream from Cypress Creek, 6 miles upstream from mouth, and 6.5 miles south of Leton.

DRAINAGE AREA.--66.9 sq mi.

PERIOD OF RECORD.--Annual maximums, water years 1954-56 and occasional low-flow measurements, water years 1955-56. October 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 182.79 ft above mean sea level. Nov. 9, 1953, to Sept. 13, 1956, crest-stage gage at datum 35.21 ft lower.

AVERAGE DISCHARGE.--17 years; 53.4 cfs (10.84 inches per year, 38,690 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 3,740 cfs Apr. 24 (gage height, 10.47 ft); minimum, 0.01 cfs Oct. 17, 18; minimum gage height, 1.21 ft Oct. 18.

Period of record: Maximum discharge, 10,200 cfs Apr. 26, 1958 (gage height, 12.95 ft), from rating curve extended above 4,200 cfs by velocity-area study; no flow at times in 1957-58, 1960, 1963-72.

REMARKS.--Records fair. Records of chemical analyses and water temperatures for the water year 1973 are published in Part 2 of this report.

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	.34	21	19	80	228	29	94	74	2.5	.79	6.2	.29		
2	.24	17	16	61	224	55	72	82	2.1	.67	2.8	.27		
3	.21	14	14	58	209	58	72	181	1.9	.67	1.7	.27		
4	.16	9.4	13	70	131	217	71	205	3.7	1.1	1.3	.42		
5	.12	7.1	13	110	92	265	57	130	5.1	.75	.97	6.1		
6	.10	5.8	13	305	75	326	50	71	5.6	.63	1.0	5.2		
7	.09	17	12	351	64	338	109	162	4.1	6.2	.75	49		
8	.09	24	13	405	237	271	120	180	3.0	6.9	.63	40		
9	.07	13	24	338	265	188	203	138	2.2	12	.57	50		
10	.06	10	121	248	245	235	153	71	1.9	8.4	.54	23		
11	.05	7.8	164	159	160	360	107	47	1.6	5.4	.42	11		
12	.04	6.1	146	111	107	302	77	38	1.6	3.1	.39	6.8		
13	.03	50	134	91	99	165	62	29	1.8	1.8	.35	4.7		
14	.03	63	188	86	97	146	54	23	1.6	1.1	.35	3.4		
15	.02	35	460	82	84	281	48	19	1.6	.83	.33	2.7		
16	.02	23	466	74	68	880	405	16	1.3	1.4	.31	2.3		
17	.01	15	307	68	58	968	492	13	1.1	1.2	.31	2.0		
18	.01	76	170	63	53	548	403	11	1.0	1.0	.35	1.6		
19	1.4	158	115	58	49	306	251	9.7	.95	.83	.42	1.3		
20	.57	119	103	54	44	171	148	8.8	1.5	.74	.35	1.2		
21	.20	72	123	221	40	118	110	8.3	1.3	.68	.31	.99		
22	.63	46	246	257	38	93	88	7.2	1.1	.90	.27	.87		
23	1.7	34	269	266	38	76	82	6.5	.95	2.4	.24	.75		
24	1.1	26	193	157	35	506	1,400	5.9	.83	.77	.23	.75		
25	.89	66	113	97	33	1,160	2,270	5.4	.75	.62	.23	1.6		
26	4.0	69	80	208	32	661	799	5.4	.71	.62	.22	1.1		
27	48	55	63	209	32	335	423	5.9	.67	.83	.20	1.1		
28	27	41	54	222	30	176	250	6.3	.63	.80	.23	4.7		
29	16	29	50	175	-----	139	133	5.0	.67	.68	.83	3.2		
30	36	22	74	128	-----	120	93	3.8	1.7	.62	.60	2.3		
31	36	-----	98	100	-----	117	-----	3.2	-----	17	.35	-----		
TOTAL	175.18	1,151.2	3,874	4,912	2,867	9,610	8,696	1,571.4	55.46	81.43	23.75	228.91		
MEAN	5.65	38.4	125	158	102	310	290	50.7	1.85	2.63	.77	7.63		
MAX	48	158	466	405	265	1,160	2,270	205	5.6	17	6.2	50		
MIN	.01	5.8	12	54	30	29	48	3.2	.63	.62	.20	.27		
CFSM	.08	.57	1.87	2.36	1.52	4.63	4.33	.76	.03	.04	.01	.11		
IN.	.10	.64	2.15	2.73	1.59	5.34	4.84	.87	.03	.05	.01	.13		
AC-FT	347	2,280	7,680	9,740	5,690	19,060	17,250	3,120	110	162	47	454		
CAL YR 1972	TOTAL	13,360.18	MEAN	36.5	MAX	1,500	MIN	0	CFSM	.55	IN	7.43	AC-FT	26,500
WTR YR 1973	TOTAL	33,246.33	MEAN	91.1	MAX	2,270	MIN	.01	CFSM	1.36	IN	18.49	AC-FT	65,940

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	0615	8.54	537	4-17	1600	8.18	552
3-16	1845	9.01	1,250	4-24	2145	10.47	3,740
3-25	1245	9.13	1,410				

RED RIVER BASIN

35

07349000 Bayou Dorcheat near Minden, La.

LOCATION.--Lat 32°35'55", long 93°19'59", in NW¹ sec.31, T.19 N., R.9 W., Webster Parish, on left bank 500 ft upstream from bridge on U. S. Highway 80, 0.7 mile upstream from Louisiana & Arkansas Railway Co. bridge, 3.0 miles west of Minden, and 28 miles upstream from Bistineau Dam.

DRAINAGE AREA.--1,097 sq mi.

PERIOD OF RECORD.--July 1928 to September 1931, October 1936 to current year. Monthly discharge only for some periods, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 133.75 ft above mean sea level (levels by Corps of Engineers). Prior to Mar. 1, 1940, nonrecording gage at same site and datum. Since July 29, 1953, supplementary water-stage recorder 4.6 miles upstream at different datum used for low stages.

AVERAGE DISCHARGE.--40 years, 1,074 cfs (13.30 inches per year, 778,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 19,000 cfs Apr. 29 (gage height, 20.96 ft); no flow Oct. 18; minimum gage height, 6.56 ft Oct. 19.

Period of record: Maximum discharge, 44,800 cfs May 1, 1958 (gage height, 24.90 ft) no flow at times in 1954, 1956, 1964, 1969, 1970, and 1972.

REMARKS.--Records fair. Records of chemical analyses and water temperatures for the water year 1973 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1211: Drainage area. WSP 1241: 1941.

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	1.3	344	1,470	2,060	3,140	868	5,270	11,100	101	85	572	14		
2	.96	363	1,380	1,840	3,480	827	4,940	8,290	96	80	634	12		
3	.96	380	1,270	1,700	3,820	809	4,540	6,410	93	93	580	11		
4	.84	397	1,140	1,580	4,240	958	4,130	5,220	111	122	500	12		
5	.52	397	1,020	1,550	4,890	1,220	3,760	4,470	138	183	400	85		
6	.48	373	904	1,760	5,310	1,490	3,360	3,910	156	302	420	201		
7	.48	371	786	2,150	5,300	1,880	3,090	3,650	156	570	456	276		
8	.44	338	701	2,560	5,240	2,110	2,810	3,260	158	962	427	447		
9	.44	361	616	2,740	5,100	2,260	2,620	2,870	164	899	320	558		
10	.32	465	683	2,860	4,900	2,420	2,420	2,610	168	841	202	742		
11	.24	523	868	3,020	4,600	2,810	2,190	2,490	177	701	136	822		
12	.16	541	1,020	3,190	4,390	3,350	1,970	2,360	190	560	90	881		
13	.14	582	1,380	3,260	4,300	3,900	1,770	2,100	205	445	65	940		
14	.12	649	1,920	3,210	4,180	4,380	1,610	1,710	217	369	47	1,020		
15	.10	754	3,720	3,070	4,000	4,840	1,470	1,280	197	295	32	1,100		
16	.08	860	7,620	2,880	3,860	5,180	1,720	944	170	241	25	1,180		
17	.06	930	8,910	2,670	3,750	5,470	2,020	724	152	228	22	1,180		
18	.02	970	8,670	2,440	3,610	5,880	2,250	600	179	247	26	1,060		
19	.36	1,040	8,060	2,180	3,380	6,760	2,560	500	276	247	40	818		
20	.52	1,110	7,270	1,950	3,110	8,180	3,200	400	390	250	66	367		
21	.60	1,200	6,550	1,910	2,800	8,990	4,100	300	441	270	54	193		
22	3.0	1,300	5,960	1,880	2,500	8,400	4,560	250	419	290	32	132		
23	7.3	1,380	5,290	1,800	2,230	7,200	4,570	200	373	350	25	97		
24	8.1	1,410	4,830	1,800	1,950	6,360	4,670	150	322	400	22	77		
25	10	1,470	4,380	1,830	1,680	6,270	6,160	110	266	450	20	64		
26	17	1,500	4,020	2,100	1,380	6,380	8,120	101	216	500	20	52		
27	72	1,520	3,660	2,350	1,140	6,210	10,600	94	170	450	18	45		
28	176	1,530	3,260	2,520	962	6,040	16,400	94	128	400	22	55		
29	199	1,530	2,900	2,610	-----	5,880	18,600	97	101	350	32	114		
30	250	1,490	2,610	2,700	-----	5,710	15,100	101	90	350	22	158		
31	324	-----	2,300	2,860	-----	5,520	-----	103	-----	400	17	-----		
TOTAL	1,075.54	26,078	105,168	73,030	99,242	138,552	150,580	66,498	6,020	11,930	5,344	12,713		
MEAN	34.7	869	3,393	2,356	3,544	4,469	5,019	2,145	201	385	172	424		
MAX	324	1,530	8,910	3,260	5,310	8,990	18,600	11,100	441	962	634	1,180		
MIN	.02	338	616	1,550	962	809	1,470	94	90	80	17	11		
CFSM	.03	.79	3.09	2.15	3.23	4.07	4.58	1.96	.18	.35	.16	.39		
IN.	.04	.88	3.57	2.48	3.36	4.70	5.10	2.25	.20	.40	.18	.43		
AC-FT	2,130	51,730	208,600	144,900	196,800	274,800	298,700	131,900	11,940	23,660	10,600	25,220		
CAL YR 1972:	TOTAL	240,911.16	MEAN	658	MAX	8,910	MIN	.02	CFSM	.60	IN.	8.17	AC-FT	477,800
WTR YR 1973:	TOTAL	696,230.54	MEAN	1,907	MAX	18,600	MIN	.02	CFSM	1.74	IN.	23.6	AC-FT	1,381,000

RED RIVER BASIN

07349250 Lake Bistineau near Ringgold, La.

LOCATION.--Lat 32°19'46", long 93°26'10", in sec.31, T.16 N., R.10 W., Bossier Parish, 40 feet above dam near right bank on upstream side of bridge on State Highway 154, 8.5 miles west of Ringgold city limits, and 17.0 miles upstream from mouth.

DRAINAGE AREA.--1,443 sq mi.

PERIOD OF RECORD.--October 1968 to current year (gage heights only).

GAGE.--Water-stage recorder and concrete dam. Datum of gage is 130.00 ft above mean sea level (levels by Louisiana Department of Public Works).

EXTREMES.--Current year: Maximum gage height, 14.09 ft May 1; minimum, 10.33 ft Oct. 22.

Period of record: Maximum gage height, 14.09 ft May 1, 1973; minimum, 9.00 ft Oct. 14, 1970.

REMARKS.--Reservoir is formed by an earthfill dam containing a 1,200-ft concrete spillway equipped with twelve gates that are 6 ft long and 5 ft high. The flat-crested spillway is 1.75 ft thick. Built onto the spillway is a fish ladder that is 4 ft wide and begins flowing at 4.1 ft gage height. Dam completed in 1935 and enlarged in 1951. Capacity, 120,000 acre-ft at 11 ft gage height. Reservoir is used for flood control and conservation.

REVISIONS.--WRD 1971: Drainage area.

MEAN GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.57	11.14	11.55	11.85	11.97	11.49	12.31	14.07	11.08	11.07	11.42	10.97
2	10.55	11.18	11.55	11.78	12.02	11.48	12.26	14.00	11.04	11.06	11.39	10.96
3	10.54	11.18	11.55	11.72	12.05	11.46	12.22	13.73	11.05	11.04	11.35	10.95
4	10.53	11.19	11.54	11.71	12.04	11.53	12.16	13.33	11.12	11.03	11.30	10.99
5	10.52	11.18	11.51	11.77	12.07	11.59	12.09	12.93	11.22	11.03	11.25	11.18
6	10.52	11.16	11.53	11.89	12.13	11.67	12.04	12.56	11.23	11.07	11.20	11.28
7	10.52	11.28	11.44	12.12	12.17	11.82	12.05	12.43	11.21	11.30	11.19	11.32
8	10.49	11.27	11.42	12.26	12.34	11.84	12.00	12.32	11.18	11.51	11.19	11.31
9	10.48	11.23	11.41	12.21	12.32	11.84	12.00	12.15	11.17	11.55	11.21	11.31
10	10.47	11.23	11.53	12.11	12.27	11.83	11.97	12.02	11.15	11.51	11.19	11.32
11	10.44	11.22	11.52	12.03	12.23	11.94	11.91	11.92	11.13	11.46	11.16	11.33
12	10.45	11.22	11.53	11.96	12.18	12.01	11.84	11.89	11.14	11.40	11.13	11.34
13	10.44	11.34	11.57	11.92	12.15	12.01	11.80	11.83	11.15	11.33	11.10	11.34
14	10.43	11.40	11.68	11.92	12.14	12.12	11.71	11.76	11.14	11.27	11.10	11.37
15	10.44	11.38	11.92	11.91	12.11	12.23	11.65	11.68	11.16	11.23	11.06	11.38
16	10.40	11.35	12.08	11.90	12.07	12.40	12.02	11.58	11.14	11.24	11.04	11.40
17	10.38	11.36	12.35	11.86	12.04	12.47	12.07	11.51	11.13	11.23	11.02	11.43
18	10.37	11.45	12.53	11.83	12.01	12.45	12.04	11.41	11.12	11.21	10.99	11.43
19	10.45	11.50	12.60	11.82	11.98	12.44	11.97	11.33	11.13	11.19	11.00	11.40
20	10.40	11.52	12.59	11.78	11.96	12.49	11.97	11.31	11.22	11.18	11.00	11.36
21	10.35	11.49	12.57	11.87	11.92	12.58	12.00	11.25	11.28	11.17	11.00	11.31
22	10.44	11.49	12.51	11.91	11.88	12.66	12.03	11.21	11.26	11.16	10.97	11.25
23	10.55	11.48	12.39	11.86	11.84	12.65	12.13	11.18	11.24	11.18	10.95	11.20
24	10.56	11.51	12.31	11.80	11.80	12.71	12.29	11.18	11.21	11.20	10.94	11.17
25	10.53	11.58	12.21	11.76	11.74	12.79	12.70	11.16	11.20	11.20	10.94	11.14
26	10.60	11.58	12.14	11.80	11.68	12.77	12.88	11.13	11.17	11.20	10.93	11.12
27	10.72	11.59	12.07	11.85	11.62	12.68	12.97	11.14	11.13	11.22	10.92	11.12
28	10.74	11.61	12.01	11.91	11.56	12.57	13.12	11.11	11.13	11.21	10.93	11.12
29	10.84	11.60	11.94	11.88	-----	12.48	13.48	11.10	11.10	11.21	10.97	11.12
30	11.04	11.57	11.93	11.85	-----	12.41	13.91	11.10	11.08	11.18	10.97	11.12
31	11.08	-----	11.90	11.85	-----	12.32	-----	11.09	-----	11.35	10.97	-----
MAX	11.08	11.61	12.60	12.26	12.34	12.79	13.91	14.07	11.28	11.55	11.42	11.43
MIN	10.35	11.14	11.41	11.71	11.56	11.46	11.65	11.09	11.04	11.03	10.92	10.95

RED RIVER BASIN

37

07349500 Bodcau Bayou near Sarepta, La.

LOCATION.--Lat 32°54'18", long 93°28'58", in NW¼ sec.15, T.22 N., R.11 W., Bossier-Webster Parish line, on left bank on downstream side of bridge on State Highway 2, 2.1 miles northwest of Sarepta, and 9.5 miles upstream from Caney Creek.

DRAINAGE AREA.--546 sq mi.

PERIOD OF RECORD.--October 1938 to current year. Prior to October 1958, published as Bayou Bodcau near Sarepta.

GAGE.--Water-stage recorder. Datum of gage is 173.91 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--35 years, 556 cfs (402,800 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 8,360 cfs Apr. 26; maximum gage height, 20.60 ft Apr. 26; minimum discharge, 0.90 cfs Oct. 6 (gage height, 1.61 ft).

Period of record: Maximum discharge, 18,600 cfs May 2, 1958 (gage height, 25.14 ft); minimum, 0.1 cfs at times in 1939, 1943, 1952, and 1954; minimum gage height, 1.43 ft Aug. 14-19, 1954.

Flood of May 22, 23, 1930, exceeded 25 ft, and flood in 1905 may have reached a stage of 27 ft, from information by local residents.

REMARKS.--Records good. Water used by paper mill at Springhill is pumped from wells and discharged later as waste into bayou approximately 8 miles above station. This discharge is not continuous but is stored in a reservoir and is released whenever the flow of bayou is sufficient to dilute effluent from mill. Some diversion and regulation by Lake Erling (usable capacity, 79,000 acre-ft) 15 miles upstream. Records of chemical analyses and water temperatures for the water year 1973 are published in Part 2 of this report. See following page for table of daily gage height.

REVISIONS.--WSP 1211: Drainage area.

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	2.7	394	676	1,290	1,600	960	2,150	4,210	12	42	40	3.1
2	2.0	372	585	1,300	1,870	951	2,060	3,670	9.8	32	67	11
3	1.4	345	513	1,280	2,120	924	1,880	3,320	11	91	61	14
4	1.1	329	481	1,240	2,090	996	1,600	2,870	24	187	32	11
5	1.0	293	470	1,220	1,920	1,070	1,380	2,410	39	250	17	99
6	.95	252	451	1,280	1,750	1,170	1,200	1,990	49	290	17	158
7	6.0	378	455	1,320	1,590	1,290	1,070	2,010	54	302	10	157
8	8.0	455	537	1,400	1,630	1,340	951	1,680	50	298	5.3	139
9	9.8	538	712	1,470	1,760	1,380	893	1,380	107	339	4.7	187
10	8.3	569	1,270	1,510	2,040	1,420	831	1,150	212	307	20	224
11	6.0	558	2,400	1,510	2,210	1,420	796	1,000	283	272	7.8	212
12	5.5	506	2,970	1,450	2,190	1,390	758	849	270	233	9.8	214
13	6.0	586	2,930	1,360	2,060	1,400	686	704	260	195	22	236
14	5.5	597	2,680	1,260	1,870	1,360	590	587	285	148	42	240
15	5.7	589	2,590	1,160	1,760	1,370	510	480	352	109	39	258
16	6.6	596	2,580	1,090	1,740	1,860	985	386	414	97	24	287
17	6.6	589	2,670	1,020	1,660	3,240	1,480	312	333	105	25	310
18	6.4	694	2,640	976	1,560	4,120	1,910	240	183	148	20	316
19	57	943	2,670	938	1,450	4,400	2,000	186	81	172	21	298
20	42	1,140	2,670	902	1,340	4,070	1,870	142	35	163	26	244
21	17	1,280	2,630	933	1,220	3,650	1,690	112	20	148	26	171
22	20	1,260	2,520	972	1,130	3,180	1,540	102	31	115	16	115
23	41	1,160	2,390	1,000	1,120	2,760	1,460	79	30	94	5.5	81
24	27	1,030	2,210	1,030	1,110	2,650	2,100	42	29	99	15	104
25	9.8	960	2,040	1,040	1,080	3,200	5,360	40	39	106	37	92
26	24	893	1,850	1,120	1,060	3,610	8,070	27	39	91	7.5	41
27	216	866	1,660	1,160	1,030	3,650	7,680	27	33	67	4.9	99
28	356	859	1,520	1,230	994	3,040	6,730	26	30	50	5.3	69
29	444	838	1,400	1,290	-----	2,710	5,930	22	21	46	8.3	31
30	439	774	1,310	1,310	-----	2,370	5,280	18	28	65	21	23
31	412	-----	1,270	1,290	-----	2,190	-----	15	-----	73	7.8	-----
TOTAL	2,194.35	20,643	53,750	37,351	44,954	69,141	71,440	30,086	3,363.8	4,734	664.9	4,444.1
MEAN	70.8	688	1,734	1,205	1,606	2,230	2,381	971	112	153	21.4	148
MAX	444	1,280	2,970	1,510	2,210	4,400	8,070	4,210	414	339	67	316
MIN	.95	252	451	902	994	924	510	15	9.8	32	4.7	3.1
AC-FT	4,350	40,950	106,600	74,090	89,170	137,100	141,700	59,680	6,670	9,390	1,320	8,810
CAL YR 1972	TOTAL 131,117.25	MEAN 358	MAX 2,970	MIN .95	AC-FT 260,100							
WTR YR 1973	TOTAL 342,766.15	MEAN 939	MAX 8,070	MIN .95	AC-FT 679,900							

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-12	0200	-----	3,090	3-26	2045	17.07	3,740
12-12	1815	16.26	-----	4-26	1700	-----	8,360
3-18	1700	-----	4,580	4-26	2100	20.60	-----
3-19	0415	17.83	-----				

RED RIVER BASIN

07349500 Bodeau Bayou near Sarepta, La.--Continued

MEAN GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.77	7.38	9.41	12.79	13.96	11.17	15.06	17.95	2.18	3.02	2.97	1.79
2	1.73	7.20	8.79	12.85	14.56	11.12	14.92	17.25	2.11	2.76	3.53	2.09
3	1.67	6.97	8.28	12.77	15.02	10.97	14.58	16.58	2.16	3.86	3.40	2.25
4	1.64	6.83	8.05	12.57	14.97	11.37	13.93	16.02	2.57	5.32	2.76	2.16
5	1.63	6.49	7.97	12.51	14.68	11.75	13.16	15.43	2.94	6.06	2.34	4.00
6	1.62	6.08	7.82	12.75	14.32	12.28	12.39	14.79	3.18	6.46	2.36	4.93
7	1.94	7.24	7.85	12.92	13.93	12.82	11.76	14.83	3.26	6.58	2.12	4.98
8	2.04	7.85	8.45	13.24	14.04	13.01	11.12	14.16	3.18	6.54	1.91	4.69
9	2.11	8.46	9.64	13.52	14.36	13.16	10.79	13.17	4.18	6.92	1.87	5.32
10	2.05	8.68	12.38	13.67	14.89	13.34	10.41	12.17	5.62	6.63	2.44	5.77
11	1.95	8.60	14.94	13.66	15.15	13.33	10.20	11.41	6.39	6.27	2.03	5.63
12	1.93	8.23	16.15	13.47	15.12	13.21	9.96	10.53	6.25	5.87	2.11	5.65
13	1.95	8.79	16.10	13.09	14.91	13.26	9.48	9.60	6.16	5.42	2.50	5.90
14	1.93	8.88	15.79	12.65	14.57	13.10	8.83	8.81	6.41	4.81	3.02	5.94
15	1.94	8.82	15.67	12.22	14.36	13.15	8.26	8.04	7.03	4.24	2.94	6.14
16	1.98	8.87	15.66	11.85	14.30	14.28	11.28	7.32	7.54	4.03	2.55	6.43
17	1.98	8.82	15.77	11.52	14.13	16.04	13.14	6.67	6.85	4.16	2.59	6.65
18	1.97	9.51	15.74	11.25	13.85	17.48	14.65	5.93	5.24	4.82	2.45	6.71
19	3.28	11.08	15.77	11.05	13.46	17.77	14.82	5.30	3.74	5.14	2.47	6.54
20	3.01	12.11	15.77	10.84	13.01	17.43	14.58	4.73	2.86	5.02	2.60	5.98
21	2.34	12.78	15.72	11.02	12.51	16.96	14.19	4.28	2.44	4.82	2.60	5.11
22	2.45	12.69	15.59	11.24	12.03	16.40	13.77	4.12	2.75	4.33	2.31	4.33
23	3.00	12.19	15.41	11.40	12.01	15.89	13.51	3.72	2.72	3.99	1.93	3.76
24	2.65	11.55	15.16	11.56	11.97	15.75	14.43	3.03	2.71	4.07	2.21	4.15
25	2.11	11.17	14.87	11.61	11.83	16.25	17.51	2.97	2.94	4.19	2.89	3.95
26	2.44	10.79	14.53	12.03	11.70	16.92	20.26	2.63	2.95	3.94	2.01	3.00
27	5.66	10.63	14.13	12.22	11.55	16.95	20.36	2.63	2.78	3.54	1.89	4.07
28	7.06	10.58	13.70	12.55	11.36	16.43	19.70	2.61	2.73	3.19	1.92	3.55
29	7.77	10.46	13.24	12.80	-----	15.82	19.11	2.50	2.48	3.11	2.05	2.72
30	7.73	10.06	12.88	12.89	-----	15.38	18.57	2.37	2.67	3.48	2.47	2.52
31	7.52	-----	12.70	12.80	-----	15.13	-----	2.29	-----	3.61	2.02	-----
MAX	7.77	12.78	16.15	13.67	15.15	17.77	20.36	17.95	7.54	6.92	3.53	6.71
MIN	1.62	6.08	7.82	10.84	11.36	10.97	8.26	2.29	2.11	2.76	1.87	1.79

RED RIVER BASIN

39

07349800 Cypress Bayou near Benton, La.

LOCATION.--Lat 32°42'24", long 93°41'17", in NW 1/4 sec. 23, T.20 N., R.13 W., Bossier Parish, near right bank on downstream side of bridge on State Highway 162, 1.7 miles upstream from Little Caney Bayou, and 3.1 miles east of Benton.

DRAINAGE AREA.--133 sq mi.

PERIOD OF RECORD.--October 1955 to October 1968, May 1969 to current year. Nov. 8, 1938, to Nov. 30, 1946, and Jan. 29, 1948, to Oct. 31, 1952, daily gage heights and occasional discharge measurements in files of Corps of Engineers, New Orleans district.

GAGE.--Water-stage recorder and concrete control. Datum of the gage is 165.98 ft above mean sea level (authority, Corps of Engineers).

AVERAGE DISCHARGE.--17 years (1955-68, 1969-73), 90.2 cfs (9.21 inches per year, 65,350 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 4,250 cfs Apr. 26 (gage height, 12.26 ft); no flow for all or part of Oct. 1-18.

Period of record: Maximum discharge, 8,350 cfs Apr. 27, 1958 (gage height, 15.18 ft); no flow for long periods of most years.

REMARKS.--Records good except those for periods of no gage-height record, which are poor. Since October 1961, flow regulated by 3 flood-control reservoirs above station (combined capacity of reservoirs, 1,784 acre-ft). Records of chemical analyses and water temperatures for the water year 1973 are published in Part 2 of this report. See following page for table of daily gage height.

REVISIONS.--WSP 1561: Drainage area.

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	0	50	92	279	510	75	391	260	9.7	9.3	42	33
2	.05	40	75	269	864	100	289	197	9.3	7.7	49	14
3	.15	30	65	220	1,080	200	208	189	6.2	6.8	35	6.6
4	.18	20	59	195	886	300	181	164	8.5	5.9	21	53
5	0	15	54	220	598	350	170	122	17	3.9	11	80
6	0	10	50	365	421	400	145	98	38	3.4	5.1	217
7	0	15	46	476	295	450	146	308	70	14	1.9	348
8	0	60	46	580	355	500	189	467	51	17	.93	324
9	0	40	66	595	450	450	281	508	29	22	.56	147
10	0	30	314	530	539	400	321	376	23	14	.32	52
11	0	20	592	439	543	350	303	163	23	9.7	.22	31
12	0	50	882	326	444	300	216	106	19	5.6	.20	22
13	0	130	873	242	326	250	149	88	20	4.0	.18	17
14	0	170	766	203	258	200	123	88	111	3.0	.16	14
15	0	130	900	188	237	500	111	65	370	2.5	.14	11
16	0	100	1,030	179	219	900	462	49	642	3.0	.09	33
17	0	300	960	163	177	1,100	798	40	565	6.0	.08	23
18	0	600	770	151	145	900	1,070	33	300	10	.26	7.4
19	1.0	800	565	147	126	500	864	29	107	30	.11	3.7
20	2.5	950	434	145	115	400	592	26	61	35	.07	2.1
21	2.0	400	331	180	110	300	432	24	44	20	.06	1.5
22	3.5	200	269	266	100	200	311	23	41	10	.06	1.1
23	6.0	120	229	304	95	150	240	22	32	5.0	.06	.87
24	4.0	200	188	296	90	400	556	20	26	3.0	.06	.49
25	10	300	155	227	85	750	2,010	19	24	2.0	.52	.68
26	30	350	133	314	80	1,130	2,140	16	23	2.5	.30	1.5
27	110	300	117	412	75	1,060	1,500	17	21	3.0	.15	4.0
28	80	220	106	490	70	750	975	16	17	3.5	.11	9.0
29	50	162	99	506	-----	645	639	23	14	4.0	.21	10
30	90	119	128	439	-----	539	424	23	11	10	30	9.0
31	70	-----	224	332	-----	468	-----	18	-----	20	82	-----
TOTAL	459.38	5,931	10,618	9,678	9,293	15,017	16,236	3,597	2,732.7	295.8	281.85	1,476.94
MEAN	14.8	198	343	312	332	484	541	116	91.1	9.54	9.09	49.2
MAX	110	950	1,030	595	1,080	1,130	2,140	508	642	35	82	348
MIN	0	10	46	145	70	75	111	16	6.2	2.0	.06	.49
CFSM	.111	1.49	2.58	2.35	2.50	3.64	4.07	.87	.69	.07	.07	.37
IN.	.113	1.66	2.97	2.71	2.60	4.20	4.54	1.01	.76	.08	.08	.41
AC-FT	911	11,760	21,060	19,200	18,430	29,790	32,200	7,130	5,420	587	559	2,930

CAL YR 1972 TOTAL 34,564.45 MEAN 94.4 MAX 2,350 MIN 0 CFSM .71 IN 9.67 AC-FT 68,560
 WTR YR 1973 TOTAL 75,616.67 MEAN 207 MAX 2,140 MIN 0 CFSM 1.56 IN 21.14 AC-FT 150,000

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-20	unknown	10.24	1,020	3-26	1130	10.49	1,160
12-16	1415	10.29	1,050	4-18	0645	10.37	1,090
2-3	0630	10.39	1,100	4-26	0230	12.26	4,250
3-17	unknown	unknown	1,100				

RED RIVER BASIN

07349800 Cypress Bayou near Benton, La.--Continued

MEAN GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.49	--	4.44	7.08	8.67	--	8.02	6.89	2.21	2.24	3.28	3.03
2	1.57	--	4.09	6.99	9.88	--	7.16	6.18	2.24	2.19	3.48	2.55
3	1.62	--	3.88	6.45	10.35	--	6.31	6.08	2.15	2.16	3.10	2.35
4	1.58	--	3.72	6.16	9.96	--	5.97	5.71	2.21	2.13	2.70	3.49
5	1.50	--	3.61	6.45	9.17	--	5.81	5.02	2.41	2.06	2.47	4.08
6	1.50	--	3.48	7.82	8.24	--	5.41	4.55	3.13	2.04	2.31	5.96
7	1.50	--	3.38	8.61	7.22	--	5.44	7.14	4.00	2.34	2.19	7.48
8	1.50	--	3.39	9.12	7.72	--	6.08	8.55	3.51	2.43	2.08	7.21
9	1.50	--	3.88	9.18	8.44	--	7.09	8.79	2.84	2.53	2.00	5.06
10	1.50	--	7.30	8.91	8.95	--	7.45	7.89	2.60	2.35	1.92	3.50
11	--	--	9.14	8.38	8.97	--	7.30	5.67	2.54	2.25	1.87	2.99
12	--	--	9.95	7.49	8.40	--	6.39	4.71	2.44	2.13	1.85	2.76
13	--	--	9.94	6.71	7.49	--	5.48	4.35	2.53	--	1.83	2.62
14	--	--	9.69	6.26	6.88	--	5.04	4.36	4.55	--	1.81	2.54
15	--	--	10.00	6.07	6.66	--	4.81	3.87	7.84	--	1.79	2.47
16	--	--	10.25	5.94	6.44	--	8.23	3.48	9.33	--	1.74	3.05
17	--	--	10.12	5.70	5.91	--	9.71	3.21	9.04	--	1.73	2.78
18	--	--	9.69	5.51	5.42	--	10.31	3.00	7.19	--	1.83	2.37
19	--	--	9.05	5.45	5.10	--	9.91	2.85	4.71	--	1.76	2.27
20	--	--	8.33	5.41	4.90	--	9.16	2.74	3.78	--	1.72	2.20
21	--	--	7.53	5.94	--	--	8.32	2.65	3.34	--	1.71	2.16
22	--	--	6.98	6.95	--	--	7.37	2.58	3.23	--	1.70	2.11
23	--	--	6.57	7.31	--	--	6.70	2.51	2.96	--	1.70	2.07
24	--	--	6.06	7.24	--	--	8.30	2.46	2.76	--	1.70	1.98
25	--	--	5.59	6.52	--	9.65	11.23	2.44	2.64	--	1.99	2.02
26	--	--	5.21	7.36	--	10.43	11.85	2.39	2.55	--	1.91	2.19
27	--	--	4.94	8.15	--	10.25	10.85	2.41	2.48	--	1.80	2.32
28	--	6.47	4.72	8.69	--	9.63	10.13	2.38	2.41	--	1.76	2.85
29	--	5.68	4.57	8.79	-----	9.34	9.31	2.56	2.34	--	1.78	3.08
30	--	4.97	5.11	8.38	-----	8.95	8.25	2.54	2.28	--	2.73	2.86
31	--	-----	6.49	7.54	-----	8.57	-----	2.42	-----	--	4.12	-----
MAX	--	--	10.25	9.18	10.35	10.43	11.85	8.79	9.33	--	4.12	7.48
MIN	1.49	--	3.38	5.41	--	--	4.81	2.38	2.15	--	1.70	1.98

RED RIVER BASIN

41

07350000 Loggy Bayou near Ninock, La.

LOCATION.--Lat 32°14'10", long 93°29'35", in SE 1/4 sec. 31, T.15 N., R.10 W., Bienville-Bossier Parish line, near center of span on downstream side of bridge on U. S. Highway 71, 0.3 mile downstream from Flat River, 1.9 miles southeast of Ninock, and 7.5 miles upstream from mouth.

DRAINAGE AREA.--2,628 sq mi.

PERIOD OF RECORD.--October 1948 to December 1960. January 1961 to September 1964 (annual maximum). January 1961 to current year (gage height only).

GAGE.--Water-stage recorder. Datum of gage is 100.26 ft above mean sea level (levels by Corps of Engineers). Prior to Mar. 29, 1949, and June 30 to Sept. 24, 1951, nonrecording gage, at same site and datum. Sept. 15, 1955, to Sept. 30, 1964, auxiliary water-stage recorder 6.0 miles downstream at datum 100.21 ft above mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum gage height, 41.07 ft May 1; minimum, 10.64 ft Oct. 15.

Period of record: Maximum gage height, 47.83 ft May 8, 1958; minimum, 9.46 ft Oct. 23-25, 1956.

1948-64: Maximum discharge, 32,600 cfs May 4, 1958; no flow at times due to severe backwater conditions.

REMARKS.--Some regulation by Lake Bistineau since 1935 (see station 07349250) and of flood flows by Bodeau Bayou Reservoir (Capacity, 967,900 acre-ft) since July 1949.

REVISIONS.--WSP 1211: Drainage area.

MEAN GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.04	16.85	22.15	23.59	27.08	22.22	34.94	41.06	22.52	22.05	17.87	15.55
2	12.85	16.72	21.84	23.15	27.85	22.15	34.30	41.00	22.58	21.62	17.33	15.54
3	12.78	17.52	21.68	22.75	27.70	22.05	33.72	40.79	22.20	21.02	16.89	15.43
4	12.46	24.34	21.48	22.63	27.45	22.49	33.09	40.40	21.57	20.42	16.47	15.05
5	12.07	27.78	21.19	23.09	27.42	24.56	32.44	39.92	22.92	19.83	16.02	15.61
6	11.79	28.47	20.91	24.46	27.78	26.65	31.94	39.44	24.02	19.28	15.51	17.01
7	11.66	28.66	20.20	26.32	28.07	28.87	31.64	39.15	27.71	19.87	15.16	17.47
8	11.64	28.25	19.55	27.87	28.45	30.20	31.07	38.83	30.26	21.56	15.15	17.64
9	11.64	27.63	19.62	27.48	28.96	30.93	30.67	38.22	31.79	21.04	15.33	17.88
10	11.59	27.39	20.95	27.46	29.18	31.13	30.35	37.46	32.75	20.16	15.13	17.89
11	--	27.73	22.24	27.14	30.14	31.25	29.97	37.05	33.29	19.28	14.75	20.00
12	--	28.03	22.49	26.65	31.02	31.28	29.50	37.06	32.48	18.67	14.69	--
13	10.75	27.89	22.79	26.00	31.28	31.69	29.07	36.85	33.70	18.15	15.58	--
14	10.66	27.19	23.58	25.46	30.94	33.41	28.62	36.26	34.07	17.88	15.90	--
15	10.65	26.22	26.20	25.15	30.31	33.28	27.91	35.72	34.32	17.58	15.84	--
16	10.76	25.35	26.80	24.97	29.50	34.57	28.73	35.27	34.18	17.44	15.63	--
17	10.99	24.85	27.25	24.56	28.60	35.58	29.64	34.72	33.45	17.38	15.43	19.65
18	10.95	25.34	28.05	23.88	27.72	35.79	30.45	33.98	32.19	17.53	15.17	19.04
19	10.77	26.52	28.81	23.41	26.85	35.40	31.71	32.90	30.92	17.64	15.12	18.73
20	10.82	26.77	29.35	23.17	26.32	34.83	33.06	31.63	30.14	17.62	15.06	19.19
21	11.17	26.49	29.67	24.11	25.98	34.26	33.96	30.27	29.28	17.46	14.81	19.75
22	11.66	26.02	29.63	24.25	25.52	33.79	34.59	28.98	28.36	17.27	14.77	19.36
23	12.50	25.69	28.82	24.22	24.94	33.39	35.23	27.98	27.89	17.19	15.02	18.62
24	13.16	25.60	28.04	24.46	24.47	33.67	35.79	26.98	28.06	17.32	15.53	18.06
25	13.18	25.79	27.33	24.87	24.10	34.85	37.15	26.13	28.32	17.52	15.68	17.86
26	13.07	25.48	26.64	25.52	23.60	35.23	38.37	25.50	27.88	17.61	15.50	17.62
27	13.82	24.76	25.97	26.03	23.08	35.54	39.34	25.02	26.58	17.46	15.18	17.26
28	14.70	24.20	25.33	26.39	22.57	35.68	39.90	24.64	25.07	17.10	14.82	17.27
29	14.82	23.63	24.61	26.14	-----	35.78	40.37	23.84	23.74	16.66	14.86	17.60
30	16.32	22.93	24.01	25.62	-----	35.82	40.84	23.19	22.58	16.18	15.24	17.17
31	17.10	-----	23.87	25.65	-----	35.56	-----	22.77	-----	17.16	15.54	-----
MAX	17.10	28.66	29.67	27.87	31.28	35.82	40.84	41.06	34.32	22.05	17.87	--
MIN	10.65	16.72	19.55	22.63	22.57	22.05	27.91	22.77	21.57	16.18	14.69	15.05

RED RIVER BASIN

07351000 Boggy Bayou near Keithville, La.

LOCATION.--Lat 32°22'35", long 93°49'17", in NW 1/4 sec. 17, T.16 N., R.14 W., Caddo-DeSoto Parish line, near right bank on downstream side of bridge on U. S. Highway 171, 0.4 mile downstream from Gilmer Bayou, 3 miles north of Keithville, and 5 miles upstream from mouth.

DRAINAGE AREA.--79 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 145.13 ft above mean sea level (levels by Corps of Engineers). Prior to Sept. 7, 1949, and Jan. 19 to Apr. 7, 1954, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--34 years (1939-73), 69.4 cfs (11.93 inches per year, 50,280 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 3,880 cfs July 7 (gage height, 17.56 ft); no flow Oct. 11-21; minimum gage height, 8.30 ft Oct. 18, 19.

Period of record: Maximum discharge, 14,800 cfs Jan. 5, 1946 (gage height, 20.2 ft, from graph based on gage readings), from rating curve extended above 5,200 cfs by velocity-area studies; no flow at times in 1939-40, 1942-44, 1947-49, 1951-60, 1962-67, 1970-73.

Maximum stage known, 26.7 ft in 1933, from floodmark.

REMARKS.--Records fair. Records of chemical analyses and water temperatures for the water year 1973 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1211: 1939-45, drainage area.

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	2.1	22	8.0	73	203	13	25	21	3.6	4.3	194	1.2
2	1.2	17	7.0	38	150	27	20	17	3.4	3.9	108	1.2
3	.67	19	6.7	38	70	50	18	15	3.3	3.5	26	1.1
4	.38	12	6.3	62	42	50	18	13	25	3.1	12	1.5
5	.23	7.2	6.1	76	31	86	17	12	66	2.8	9.4	26
6	.11	5.2	5.7	263	25	77	15	11	63	40	8.1	68
7	.05	16	4.9	928	22	248	22	83	36	1,720	7.1	41
8	.03	25	5.5	1,460	202	168	48	138	12	2,320	7.6	14
9	.02	16	6.4	578	468	73	125	47	8.6	536	7.0	7.3
10	.01	8.7	96	163	168	48	121	19	8.2	99	6.2	.70
11	0	6.0	192	78	71	85	51	13	7.3	36	5.2	5.2
12	0	4.6	121	54	48	64	28	11	15	19	4.5	4.8
13	0	64	105	43	38	36	20	10	122	13	3.9	3.6
14	0	131	366	35	48	26	17	9.6	174	11	3.7	3.7
15	0	52	1,410	30	50	22	16	8.9	380	10	3.4	3.3
16	0	16	928	25	30	76	564	8.2	162	13	3.3	2.3
17	0	9.4	227	21	21	298	928	8.1	46	16	3.1	2.0
18	0	60	82	20	18	151	810	7.9	19	10	3.0	2.0
19	0	315	50	19	16	63	487	7.6	12	8.4	2.6	2.0
20	0	162	39	21	15	38	149	7.3	11	7.6	2.4	2.0
21	0	52	34	66	14	27	80	7.1	22	6.5	2.1	2.0
22	1.4	22	28	154	13	21	59	6.8	34	5.9	1.8	2.0
23	4.6	14	21	94	13	17	96	6.5	15	5.5	1.6	1.8
24	3.9	12	17	46	14	700	1,000	6.2	9.9	7.0	1.5	1.9
25	1.4	47	14	35	14	2,140	3,080	6.4	8.4	7.9	1.4	2.0
26	18	75	12	487	13	620	940	7.1	7.4	5.9	1.4	1.8
27	83	40	10	599	13	152	208	7.6	6.7	7.1	1.2	2.6
28	43	20	9.5	312	13	67	76	6.8	6.1	5.5	1.0	30
29	17	13	9.4	150	-----	47	41	6.1	5.5	6.2	1.4	9.2
30	88	9.4	30	74	-----	38	28	5.1	5.1	17	1.3	5.3
31	70	-----	110	54	-----	31	-----	4.0	-----	56	1.2	-----
TOTAL	335.10	1,272.5	3,967.5	6,096	1,843	5,559	9,107	537.3	1,297.5	5,007.1	436.4	251.50
MEAN	10.8	42.4	128	197	65.8	179	304	17.3	43.3	162	14.1	8.38
MAX	88	315	1,410	1,460	468	2,140	3,080	138	380	2,320	194	68
MIN	0	4.6	4.9	19	13	13	15	4.0	3.3	2.8	1.0	.70
CFSM	.14	.54	1.62	2.49	.83	2.27	3.85	.22	.55	2.05	.18	.11
IN.	.16	.60	1.87	2.87	.87	2.62	4.29	.25	.61	2.36	.21	.12
AC-FT	665	2,520	7,870	12,090	3,660	11,030	18,060	1,070	2,570	9,930	866	499

CAL YR 1972 TOTAL 12,589.66 MEAN 34.4 MAX 1,410 MIN 0 CFSM .44 IN 5.93 AC-FT 24,970
WTR YR 1973 TOTAL 35,709.90 MEAN 97.8 MAX 3,080 MIN 0 CFSM 1.24 IN 16.82 AC-FT 70,830

PEAK DISCHARGE (BASE, 1,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	2100	16.60	1,480	4-25	1100	17.51	3,750
1- 8	1030	16.66	1,600	7- 7	2000	17.56	3,880
3-25	0745	17.08	2,610				

RED RIVER BASIN

43

07352000 Saline Bayou near Lucky, La.

LOCATION.--Lat 32°15'00", long 92°58'35", in SW¹/₄SW¹/₄ sec.27, T.15 N., R.6 W., Bienville Parish, near center of span on downstream side of bridge on State Highway 4, 0.7 mile downstream from Sixmile Creek, and 1.0 mile east of Lucky.

DRAINAGE AREA.--154 sq mi.

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

GAGE.--Duplex water-stage recorder (rain gage and water stage combination). Datum of gage is 152.65 ft above mean sea level. Prior to Feb. 28, 1949, nonrecording gage, Mar. 1, 1949, to Apr. 26, 1971, water-stage recorder, at same site and datum.

AVERAGE DISCHARGE.--33 years, 159 cfs (14.02 inches per year, 115,200 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,010 cfs Mar. 18; maximum gage height, 7.66 ft Jan. 9; minimum discharge, 20 cfs Aug. 27 (gage height, 2.87 ft).

Period of record: Maximum discharge, 13,500 cfs Jan. 1, 1945 (gage height, 12.9 ft), from rating curve extended above 6,400 cfs on basis of records for Black Lake Bayou near Castor and Dugdemona River near Jonesboro; minimum discharge, 2.4 cfs Aug. 14, 1954; minimum gage height, 1.66 ft Aug. 7, 8, 1964.

REMARKS.--Records poor. Records of chemical analyses and water temperatures for the water year 1973 are published in Part 2 of this report.

REVISIONS.--WSP 1177: Drainage area.

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	78	206	103	400	498	121	420	208	50	60	80	28	
2	64	157	100	420	629	129	365	186	50	40	76	36	
3	60	105	91	338	690	138	266	182	50	31	59	66	
4	60	84	89	286	778	169	206	203	75	32	42	74	
5	60	76	88	350	690	262	195	190	110	60	33	126	
6	60	71	90	610	414	335	170	157	105	94	29	190	
7	60	97	90	893	266	552	190	223	83	124	28	402	
8	60	146	115	1,400	266	615	270	474	66	128	36	480	
9	59	164	166	1,680	325	658	370	524	57	90	40	480	
10	58	133	366	1,270	408	682	370	462	50	54	34	552	
11	58	100	556	928	426	650	310	226	48	40	27	402	
12	58	86	505	694	320	559	223	150	53	32	24	134	
13	58	115	550	455	290	498	169	145	58	28	24	89	
14	59	179	574	306	438	420	150	159	71	25	23	76	
15	58	167	616	240	468	666	142	133	79	24	23	66	
16	60	152	580	208	350	1,120	203	106	66	23	22	56	
17	60	115	562	188	243	1,690	390	94	53	23	24	50	
18	62	118	592	173	182	1,830	650	86	47	24	29	44	
19	64	211	495	165	164	1,270	818	80	44	22	42	41	
20	64	314	310	164	154	930	826	76	114	22	44	38	
21	64	326	266	520	145	601	615	74	127	26	30	37	
22	76	195	330	1,130	139	350	370	72	82	25	25	34	
23	101	132	318	1,850	138	243	310	66	58	32	23	34	
24	88	113	247	1,300	138	340	510	62	43	40	23	39	
25	70	138	184	962	139	1,030	1,050	64	36	41	22	68	
26	84	179	149	754	131	1,510	1,670	79	30	42	21	73	
27	147	216	132	594	127	1,430	1,570	79	28	34	21	56	
28	158	206	122	601	122	1,040	1,050	71	26	33	22	79	
29	147	141	115	594	-----	730	706	61	31	33	26	139	
30	163	117	135	492	-----	474	345	56	58	48	25	154	
31	188	-----	290	390	-----	456	-----	52	-----	56	23	-----	
TOTAL	2,506	4,559	8,926	20,355	9,078	21,498	14,899	4,800	1,848	1,386	1,000	4,143	
MEAN	80.8	152	288	657	324	693	497	155	61.6	44.7	32.3	137	
MAX	188	326	616	1,850	778	1,830	1,670	524	127	128	80	552	
MIN	58	71	88	164	122	121	142	52	26	22	21	28	
CFSM	.52	.99	1.87	4.27	2.10	4.50	3.23	1.01	.40	.29	.21	.89	
IN.	.61	1.10	2.16	4.92	2.19	5.19	3.60	1.16	.45	.33	.24	.99	
AC-FT	4,970	9,040	17,700	40,370	18,010	42,640	29,550	9,520	3,670	2,750	1,980	8,220	
(+)	4.45	3.94	5.52	6.88	1.67	6.91	4.68	2.09	5.65	2.22	.89	6.24	
CAL YR 1972: TOTAL	50,508	MEAN	138	MAX	2,260	MIN	22	CFSM	.90	IN.	12.2	AC-FT	100,200
WTR YR 1973: TOTAL	94,998	MEAN	260	MAX	1,850	MIN	21	CFSM	1.69	IN.	22.9	AC-FT	188,400

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
1-9	1000	7.66	1,740	3-26	1800	7.41	1,770
1-23	0800	7.59	1,970	4-26	1700	7.61	1,990
3-18	0200	7.63	2,010				

++ Precipitation, in inches, during month at rain gage at station. Total for calendar year 1972, 45.17 inches; total for water year 1973, 51.14 inches.

RED RIVER BASIN

07352800 Grand Bayou near Coushatta, La.

LOCATION.--Lat 32°02'55", long 93°18'10", in SW $\frac{1}{4}$ sec.4, T.12 N., R.9 W., Red River Parish, near right bank on downstream side of bridge on State Highway 155, 0.5 mile upstream from Carrol Creek, and 3.3 miles north of Coushatta.

DRAINAGE AREA.--93.9 sq mi.

PERIOD OF RECORD.--October 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 136.26 ft above mean sea level.

AVERAGE DISCHARGE.--17 years, 78.2 cfs (11.31 inches per year, 56,660 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,170 cfs Jan. 8 (gage height, 9.13 ft); no flow Oct. 5.

Period of record: Maximum discharge, 7,920 cfs Sept. 21, 1958 (gage height, 11.47 ft), from rating curve extended above 3,200 cfs on basis of velocity-area study; no flow at times each year.

REMARKS.--Records fair. Records of chemical analyses and water temperatures for the water year 1973 are published in Part 2 of this report.

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	1.2	14	13	240	231	21	77	47	2.0	.12	4.4	.59
2	.49	12	9.0	166	309	24	54	192	1.5	.14	2.1	2.1
3	.20	7.6	6.6	145	344	40	37	286	1.2	.12	14	1.4
4	.04	5.5	5.3	217	334	44	28	69	3.0	.17	12	.45
5	.02	3.2	4.8	268	228	40	25	35	11	.91	4.6	14
6	.01	1.7	4.0	570	98	72	20	24	42	1.4	2.2	8.6
7	.03	5.2	3.3	1,290	70	177	37	218	46	4.0	1.5	18
8	.03	6.1	4.7	2,050	80	205	99	307	21	36	.91	20
9	.04	12	11	1,530	151	205	140	252	10	51	.29	13
10	.04	21	115	1,050	197	183	160	130	5.6	28	.10	5.7
11	.04	12	233	682	161	354	136	50	3.5	14	.05	5.6
12	.04	7.3	228	404	95	372	78	26	2.7	5.8	.04	3.3
13	.03	26	220	194	79	288	44	64	2.2	3.0	.03	1.7
14	.02	107	217	100	236	207	29	66	1.8	1.4	.05	.91
15	.02	110	443	80	270	219	22	28	1.9	.85	.03	.69
16	.03	52	463	69	194	437	141	15	2.8	.45	.02	1.3
17	.04	21	439	60	114	586	359	9.7	2.0	.37	.04	1.1
18	.04	19	319	53	74	634	610	6.6	1.4	.26	.05	.79
19	.17	93	168	49	55	535	604	5.1	1.1	.29	.06	.49
20	.04	168	78	47	45	357	468	4.0	.97	.29	.04	.29
21	.04	118	72	206	37	165	300	3.1	1.2	.23	.02	.26
22	.79	47	87	329	32	76	211	2.6	.74	.23	.02	.23
23	.26	24	108	460	30	54	126	2.2	.54	.23	.02	.20
24	.12	16	97	452	31	257	147	1.9	.29	.20	.02	.17
25	.06	23	72	354	31	668	844	1.7	.20	.26	.02	.14
26	1.3	65	51	300	28	853	1,420	2.0	.20	.17	.01	.12
27	13	77	38	317	26	734	1,070	2.7	.20	.10	.02	.12
28	22	50	30	350	23	560	654	3.7	.20	.08	.02	.12
29	5.6	31	25	344	-----	345	288	3.3	.20	.10	.26	.12
30	4.0	20	113	274	-----	203	91	2.3	.20	.08	.59	.14
31	10	-----	249	162	-----	116	-----	2.3	-----	1.4	.59	-----
TOTAL	59.74	1,174.6	3,926.7	12,812	3,603	9,031	8,319	1,862.2	167.64	151.65	44.10	101.63
MEAN	1.93	39.2	127	413	129	291	277	60.1	5.59	4.89	1.42	3.39
MAX	22	168	463	2,050	344	853	1,420	307	46	51	14	20
MIN	.01	1.7	3.3	47	23	21	20	1.7	.20	.08	.01	.12
CFSM	.02	.42	1.35	4.40	1.37	3.10	2.95	.64	.06	.05	.02	.04
IN.	.02	.47	1.56	5.08	1.43	3.58	3.30	.74	.07	.06	.02	.04
AC-FT	118	2,330	7,790	25,410	7,150	17,910	16,500	3,690	333	301	87	202
CAL YR 1972	TOTAL	21,047.34	MEAN	57.5	MAX	1,860	MIN	0	CFSM	.61	IN	8.34
WTR YR 1973	TOTAL	41,253.26	MEAN	113	MAX	2,050	MIN	.01	CFSM	1.20	IN	16.34
AC-FT											41,750	
AC-FT											81,830	

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
12-15	0645	7.56	502	3-26	1015	8.01	889
1-8	1245	9.13	2,170	4-18	1715	7.69	634
1-23	1715	7.44	500	4-26	0400	8.59	1,520
3-16	1830	7.78	696				

RED RIVER BASIN

45

07353000 Saline Bayou near Clarence, La.

LOCATION.--Lat 31°49'05", long 92°56'55", in SE¼ sec.26, T.10 N., R.6 W., Natchitoches-Winn Parish line, near center of span on downstream side of bridge on U.S. Highway 84, 1.8 miles downstream from Bayou Bourbeaux, 4.0 miles downstream from Allen Dam, 4.6 miles east of Clarence, and 6.7 miles upstream from mouth.

DRAINAGE AREA.--1,386 sq mi.

PERIOD OF RECORD.--October 1949 to 1972.

GAGE.--Water-stage recorder. Datum of gage is 72.75 ft above mean sea level (levels by Louisiana Department of Public Works). Prior to Nov. 2, 1954, nonrecording gage at same site and datum. Supplementary water-stage recorder 6.8 miles upstream. Datum of supplementary gage is 94.49 ft above mean sea level. Prior to Nov. 3, 1954, auxiliary nonrecording gage and Nov. 3, 1954, to Dec. 3, 1969, auxiliary water-stage recorder 5.3 miles downstream at datum 72.97 ft above mean sea level.

AVERAGE DISCHARGE.--23 years, 1,165 cfs (844,000 acre-ft per year).

EXTREMES.--1971-72: Maximum discharge, about 4,100 cfs Jan. 6; maximum gage height, 27.29 ft Dec. 19; minimum discharge (unaffected by backwater), 1.3 cfs Sept. 27.

Period of record: Maximum discharge, 14,200 cfs May 19, 1953; maximum daily reverse flow, 6,570 cfs May 11, 1958 (backwater from Red River); maximum gage height, 40.46 ft May 21, 1953; minimum discharge (unaffected by backwater), 1.3 cfs Sept. 27, 1972. Flood in April 1945 reached a stage of 43.6 ft, from information by local resident.

REMARKS.--Some regulation prior to Aug. 15 and considerable regulation thereafter by Saline Lake-Black Lake (combined usable capacity, 161,000 acre-ft). Records of water temperatures for the water year 1973 are published in Part 2 of this report.

NOTE: Records for the 1973 water year have been withheld pending better definition of the stage-discharge relation. They will be published in a subsequent annual report.

RED RIVER BASIN

07354000 Little Sandy Creek at Kisatchie, La.

LOCATION.--Lat 31°24'30", long 93°10'15", in SE¼ sec.15, T.5 N., R.8 W., Natchitoches Parish, near right bank at downstream side of bridge on State Highway 117, 0.5 mile south of Kisatchie, and 2 miles upstream from mouth.

DRAINAGE AREA.--21.4 sq mi.

PERIOD OF RECORD.--September 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is 204.44 ft above mean sea level. May 20, 1964, to Aug. 31, 1965, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--24 years, 28.4 cfs (18.02 inches per year, 20,580 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 3,280 cfs Mar. 16 (gage height, 11.05 ft); minimum daily, 0.94 cfs Oct. 18.

Period of record: Maximum discharge, 5,880 cfs Apr. 29, 1953 (gage height, 15.36 ft); minimum, 0.2 cfs Sept. 19, 21, 22, 27, 1956.

REMARKS.--Records fair. Records of water temperatures for the water year 1973 are published in Part 2 of this report.

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	2.5	13	12	26	283	18	44	29	9.8	4.3	6.4	8.4
2	1.8	14	12	43	54	17	40	223	9.6	4.1	4.7	7.4
3	1.6	25	12	60	46	17	38	84	9.4	4.3	3.6	8.2
4	1.4	34	12	33	40	71	32	46	13	4.7	3.2	17
5	1.3	15	12	52	39	20	26	36	39	7.2	2.7	603
6	1.4	12	16	188	37	263	46	36	16	8.6	2.4	95
7	1.2	11	13	175	36	70	198	699	9.6	7.2	3.0	39
8	1.1	10	16	74	156	37	64	69	7.4	6.4	2.7	26
9	1.2	9.1	24	42	92	31	67	42	7.0	5.4	2.7	20
10	1.1	8.4	338	38	56	143	48	36	13	4.3	3.6	18
11	1.1	8.4	51	36	48	63	44	26	18	4.1	3.0	18
12	1.0	8.4	29	33	45	34	43	21	18	3.8	3.6	25
13	1.0	90	24	35	432	29	40	20	20	3.6	2.7	18
14	1.0	22	315	31	256	24	38	17	121	3.2	2.7	16
15	1.0	16	186	30	60	30	83	16	38	3.0	2.8	14
16	1.0	13	41	24	44	1,160	902	14	18	2.8	2.4	12
17	1.0	11	29	24	40	116	1,040	15	12	3.8	2.7	11
18	.94	164	24	24	34	80	306	13	10	3.2	2.4	11
19	50	44	31	26	31	65	102	12	8.2	3.8	3.6	11
20	9.4	24	190	23	28	55	83	11	8.6	5.6	2.8	9.8
21	6.0	20	206	312	26	46	71	10	9.4	4.7	2.4	9.6
22	43	18	41	65	26	40	61	9.8	7.9	8.4	2.2	8.6
23	17	16	28	47	26	62	51	9.6	7.2	6.0	2.4	9.6
24	7.9	16	24	42	24	856	44	28	6.4	23	2.2	11
25	7.0	38	23	39	23	152	39	79	6.0	13	2.2	11
26	53	21	21	178	21	84	147	31	6.2	8.2	2.2	9.6
27	79	16	19	54	20	68	48	16	5.6	11	3.6	8.8
28	18	15	18	82	18	90	35	12	5.2	7.9	118	24
29	13	14	18	48	-----	82	30	11	5.2	6.7	27	14
30	57	13	117	45	-----	59	29	10	5.0	4.3	12	8.8
31	20	-----	36	57	-----	54	-----	9.6	-----	3.9	9.4	-----
TOTAL	402.94	739.3	1,938	1,986	2,041	3,936	3,839	1,691	469.7	190.5	247.3	1102.8
MEAN	13.0	24.6	62.5	64.1	72.9	127	128	54.5	15.6	6.15	7.98	36.8
MAX	79	164	338	312	432	1,160	1,040	699	121	23	118	603
MIN	.94	8.4	12	23	18	17	26	9.6	5.0	2.8	2.2	7.4
CFSM	.61	1.15	2.92	2.99	3.41	5.93	5.98	2.55	.73	.29	.37	1.72
IN.	.70	1.28	3.37	3.45	3.55	6.84	6.67	2.94	.82	.33	.43	1.92
AC-FT	799	1,470	3,840	3,940	4,050	7,810	7,610	3,350	932	378	491	2,190
CAL YR 1972:	TOTAL 9,344.94	MEAN 25.6	MAX 464	MIN .94	CFSM 1.20	IN. 16.24	AC-FT 18,540					
WTR YR 1973	TOTAL 18,583.54	MEAN 50.9	MAX 1,160	MIN .94	CFSM 2.38	IN. 32.30	AC-FT 36,860					

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-10	1000	6.07	1,200	3-16	0930	11.05	3,280
12-14	2145	6.75	1,440	3-24	1425	7.60	1,740
1-21	1200	6.22	1,260	4-16	1040	9.36	2,440
2- 1	0215	5.49	1,000	4-17	2115	10.45	2,980
2-13	2200	7.36	1,660	5- 7	0845	8.72	2,170
3- 6	1830	5.91	1,150	9- 5	0900	6.52	1,360

07355500 Red River at Alexandria, La.

LOCATION.--Lat 31°18'46", long 92°26'34", in SE¼ sec.10, T.4 N., R.1 W., Rapides Parish, near center of span on downstream side of old bridge on U.S. Highway 165 between Alexandria and Pineville, and 1.7 miles downstream from Bayou Rigolette.

DRAINAGE AREA.--67,500 sq mi, of which 5,936 sq mi above Denison Dam is noncontributing.

RECORDS AVAILABLE.--October 1928 to September 1971. Since January 1928, in reports of Mississippi River Commission. Discharge observations in 1858 and intermittently 1879 to 1927 and gage heights since 1872, in reports of Mississippi River Commission.

GAGE.--Wire-weight gage read twice daily. Datum of gage is 44.26 ft above mean sea level or 44.18 ft above mean Gulf level, datum of Mississippi River Commission (levels by Corps of Engineers). Prior to July 14, 1934, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--44 years, 30,400 cfs (22,020,000 acre-ft per year).

EXTREMES.--1971-72: Maximum discharge, 140,000 cfs Dec. 19 (gage height, 28.80 ft); minimum daily 2,200 cfs Sept. 16-17, 20-23.
Period of record: Maximum discharge, 233,000 cfs Apr. 17, 1945 (gage height, 45.23 ft); minimum, 873 cfs Oct. 30, 1956 (gage height, -3.01 ft).
A discharge of 210,000 cfs was measured July 2, 1908 (gage height, 41.6 ft).

REMARKS.--Regulation by Lake Texoma, Millwood Reservoir, and Texarkana Reservoir. Records of chemical analyses and suspended sediment for the water year 1973 are published in Part 2 of this report.

COOPERATION.--Computations of daily discharge furnished by Corps of Engineers; records reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1211: Drainage area.--WSP 1241: 1929-36.

NOTE.--Records for 1973 water year are not available in time for inclusion in this report. They will be published in a subsequent report.

RECORDS FOR 1972 WATER YEAR ARE PUBLISHED ON PAGE 148 OF THIS REPORT.

MISSISSIPPI RIVER DELTA

07355650 Larto Lake at dam, near Acme, La.

LOCATION.--Lat 31°20'01", long 91°56'10", in SW $\frac{1}{4}$ sec.11, T.4 N., R.5 E., Catahoula Parish, at dam, 3.0 miles west of Argo, 4.2 miles upstream from mouth of Larto Bayou, and 7.7 miles northwest of Acme.

DRAINAGE AREA.--291 sq mi.

PERIOD OF RECORD.--December 1968 to current year (gage height only).

GAGE.--Water-stage recorder. Datum of gage is 33.00 ft (corrected) above mean sea level (levels by Louisiana Department of Public Works).

EXTREMES.--Current year: Maximum gage height 26.26 ft (from flood mark), occurred during period May 14-18; minimum not determined. Period of record: Maximum gage height 26.26 ft (from flood mark), occurred during period May 14-18, 1973; minimum not determined.

REMARKS.--Reservoir is formed from a natural oxbow lake by an earthfill dam, completed in 1959. The dam contains a 57-foot concrete spillway and a 10-foot wide timber gate. The crest of the dam is at a gage height of 12.45 ft, and the invert of the spillway is at 3.95 ft. The capacity at 3.95 ft is estimated to be 15,000 acre-ft. Outflow between -2.05 ft and 3.95 ft is regulated by the timber gate.

GAGE HEIGHT, IN FEET, AT 0800, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	--	2.89	6.28	12.56	13.13	13.84	--	--	--	17.88	5.05	2.99
2	--	3.11	6.36	12.56	13.38	13.52	--	--	--	17.51	4.95	2.95
3	--	3.21	6.38	12.57	13.66	13.21	--	--	--	17.13	4.84	2.94
4	--	3.24	6.31	12.60	13.87	12.96	--	--	--	16.70	4.74	2.94
5	--	3.24	6.28	12.58	13.99	12.64	--	--	--	16.25	4.65	3.03
6	--	3.25	6.67	12.60	14.07	12.31	--	--	--	15.87	4.55	3.61
7	--	3.35	6.72	12.62	14.14	12.26	--	--	--	15.92	4.48	4.12
8	--	3.43	6.73	12.93	14.30	12.33	--	--	--	14.94	4.40	4.93
9	--	3.46	6.78	13.21	14.44	12.47	--	--	--	14.44	4.34	5.38
10	--	3.51	7.07	13.47	14.49	12.52	--	--	--	13.93	4.25	5.45
11	--	3.49	7.10	13.70	14.51	12.74	--	--	--	13.40	4.18	5.40
12	--	3.46	7.13	13.89	14.58	12.87	--	--	--	12.86	4.10	5.30
13	--	3.58	7.25	14.02	14.73	13.05	--	--	--	12.33	4.02	5.22
14	--	3.74	7.25	14.12	15.04	13.20	--	--	--	11.80	3.95	5.05
15	--	3.81	7.43	14.18	15.24	13.45	--	--	--	11.29	3.88	4.88
16	--	3.91	7.57	14.22	15.39	14.12	--	--	--	10.81	3.81	4.75
17	--	3.97	7.78	14.22	15.46	14.98	--	--	--	10.40	3.76	4.63
18	--	3.99	8.01	14.15	15.46	15.17	--	--	--	9.98	3.75	4.49
19	--	4.17	8.26	14.04	15.44	16.24	--	--	--	9.45	3.70	4.37
20	--	4.24	8.63	13.86	15.37	16.69	--	--	--	8.75	3.66	4.28
21	--	4.30	9.59	13.79	15.28	17.07	22.57	--	--	8.23	3.65	4.19
22	--	4.44	10.59	13.66	15.15	17.36	22.67	--	--	7.67	3.57	4.10
23	--	4.60	11.36	13.53	15.03	17.62	22.76	--	19.80	7.18	3.48	4.01
24	2.32	4.77	11.89	13.34	14.88	17.89	22.86	--	19.61	6.74	3.41	3.92
25	2.41	5.04	12.18	13.12	14.71	--	23.05	--	19.41	6.35	3.36	3.85
26	2.48	5.30	12.37	13.02	14.53	--	23.22	--	19.20	6.12	3.29	3.76
27	2.74	5.51	12.45	12.94	14.33	--	23.36	--	18.99	5.85	3.25	3.68
28	2.79	5.80	12.50	12.96	14.10	--	--	--	18.74	5.65	3.20	3.57
29	2.85	5.96	12.53	12.97	-----	--	--	--	18.54	5.48	3.18	3.62
30	2.87	6.20	12.51	12.96	-----	--	--	--	18.25	5.30	3.10	3.86
31	2.89	-----	12.57	12.94	-----	--	-----	--	-----	5.15	3.05	-----
MAX	2.89	6.20	12.57	14.22	15.46	--	--	--	--	17.88	5.05	5.45
MIN	--	2.89	6.28	12.56	13.13	12.26	--	--	18.25	5.15	3.05	2.94

NOTE.--Gage height was below 2.25 ft (lowest recordable stage) Oct. 1-23. Recorder removed due to high water Apr. 28 to June 22.

RED RIVER BASIN

49

07364100 Ouachita River near Arkansas-Louisiana State line

LOCATION.--Lat 33°01'52", long 92°05'16", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.25, T.19 S., R.10 W., Union County, on right bank 500 ft below lock and dam No. 6, 1.6 miles north of Arkansas-Louisiana State line, 3.5 miles downstream from Missouri Pacific Railroad Co. bridge, and 4.5 miles southeast of Felsenthal, Ark.

DRAINAGE AREA.--10,787 sq mi.

PERIOD OF RECORD.--April 1958 to current year (discharge above 19.0 ft stage not determined). Gage-height record for some periods collected at same site since 1912 are contained in reports of Corps of Engineers, Vicksburg district.

GAGE.--Water-stage recorder. Datum of gage is 44.09 ft above mean sea level (levels by Corps of Engineers). Prior to Aug. 26, 1958, nonrecording gage at same site and datum. Auxiliary water-stage recorder 16 miles downstream at same datum. Prior to Aug. 26, 1958, nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum gage height, 41.55 ft May 6; minimum daily discharge, 1,010 cfs Oct. 6; minimum gage height, 7.11 ft Oct. 5, 12.

Period of record: Maximum gage height, 43.04 ft May 14, 1958 (discharge not determined); minimum daily discharge, 190 cfs Sept. 13, 1971; minimum gage height, 6.58 ft Sept. 14, 1971.

1912-73: Maximum gage height, 44.2 ft Apr. 11, 12, 1945; minimum, -0.3 ft Nov. 11, 1916; minimum since 1928, 5.8 ft Aug. 25, 1951.

REMARKS.--Records fair. Discharge computed for stages below bankfull, about 19 ft. Flow regulated by Lake Ouachita since 1952 (usable capacity, 1,903,000 acre-ft), Lake Hamilton since 1932 (usable capacity, 119,560 acre-ft), Lake Catherine since 1925 (usable capacity, 21,300 acre-ft), Lake Greeson since 1949 (usable capacity, 330,000 acre-ft), by DeGray Lake since August 1969 (capacity, 881,900 acre-ft), and by navigation pools. Records of chemical analyses and water temperatures for the water year 1973 are published in Part 2 of this report. Records of chemical analyses for Lock and Dam No. 6 for the water year 1973 are published in Part 2 of the Arkansas report (see sta 07364080).

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	2,910	8,310									4,410	3,820
2	2,890	9,880									5,550	3,870
3	2,480	13,100									8,080	3,820
4	1,360	14,800									8,780	2,960
5	1,030	15,100									8,820	2,420
6	1,010	15,600									8,100	4,080
7	1,170	16,800									6,470	6,570
8	2,240										4,180	8,960
9	2,560										3,650	12,000
10	2,310										4,490	14,200
11	1,240										5,010	13,900
12	1,020										4,750	14,600
13	1,140										4,680	14,900
14	1,290										4,450	15,100
15	1,340										3,680	14,300
16	1,460										3,140	11,700
17	1,470										3,410	9,130
18	1,900										4,390	8,180
19	2,220										5,380	7,010
20	1,670									10,560	5,440	6,390
21	1,690									10,400	4,350	5,860
22	2,290									10,300	2,150	5,720
23	2,280									10,200	2,480	5,680
24	2,270									9,900	3,460	5,080
25	3,520									9,300	4,700	3,620
26	3,960									7,800	4,620	3,050
27	4,900									6,800	4,220	3,510
28	4,600									6,600	2,670	3,740
29	4,900									6,300	1,700	3,660
30	7,290				-----					5,990	2,600	3,490
31	7,770	-----			-----		-----		-----	5,500	3,900	-----
MAX	7,770	-								-	8,820	15,100
MIN	1,010	8,310								5,500	1,700	2,420

RED RIVER BASIN

07364200 Bayou Bartholomew near Jones, La.

LOCATION.--Lat 32°59'25", long 91°39'20", in SE $\frac{1}{4}$ sec. 9, T.23 N., R.8 E., Morehouse Parish, on downstream side of right pier of bridge on State Highway 834, 1 mile downstream from Arkansas-Louisiana State line, and 1.6 miles northwest of Jones.

DRAINAGE AREA.--1,187 sq mi.

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 79.21 ft above mean sea level (levels by Corps of Engineers). Auxiliary water-stage recorder at site 4.0 miles downstream at different datum. Oct. 1, 1959, to Dec. 6, 1966, auxiliary nonrecording gage 4.1 miles downstream at datum 1.0 ft higher. Prior to Oct. 1, 1959, auxiliary water-stage recorder 15.3 miles upstream at datum 85.17 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--16 years, 1,199 cfs (868,700 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 6,260 cfs Mar. 24; maximum gage height, 27.88 ft Apr. 2; minimum discharge, 62 cfs Oct. 14, 15 (gage height, 1.15 ft).

Period of record: Maximum daily discharge, 6,680 cfs Mar. 11-13, 1961; maximum gage height, 28.24 ft May 21, 22, 1958; minimum discharge, 32 cfs July 22, 1966 (gage height, 0.35 ft).

REMARKS.--Records fair. Small diversions above station for irrigation. In extreme floods, considerable flow bypasses station. Most of flow is into the Bayou Lafourche-Boeuf River basins via interconnecting system of bayous and drainage ditches and passes stations Bayou Lafourche near Crew Lake and Boeuf River near Girard. (See stations 07369000 and 07368000.) Other flow bypasses station and reenters the basin 5 miles downstream via Overflow Creek. Records of chemical analyses and water temperatures for the water year 1973 are published in Part 2 of this report.

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	94	176	3,210	5,080	3,960	3,940	5,960	5,940	3,410	312	350	163
2	89	171	3,210	5,030	3,980	3,780	5,940	6,060	3,180	307	337	162
3	85	167	3,140	5,060	4,070	3,550	5,950	6,110	2,880	300	324	167
4	82	161	3,110	5,000	4,150	3,390	6,000	6,090	2,680	299	317	179
5	78	155	3,060	5,070	4,170	3,250	5,960	6,080	2,490	313	317	209
6	75	150	3,040	5,110	4,270	3,170	5,940	6,120	2,300	317	327	280
7	72	254	2,960	5,230	4,290	3,140	6,070	6,160	2,110	317	346	324
8	69	491	2,880	5,270	4,470	3,090	5,970	6,140	1,990	321	371	335
9	68	640	2,860	5,240	4,560	3,000	5,990	6,140	1,920	319	394	336
10	66	820	2,880	5,310	4,540	2,970	5,890	6,120	1,740	314	401	318
11	64	940	2,900	5,410	4,530	3,070	5,850	6,100	1,630	312	399	308
12	64	1,030	2,850	5,380	4,540	3,140	5,780	6,110	1,500	314	386	303
13	63	1,120	2,880	5,270	4,620	3,230	5,640	6,050	1,370	306	368	328
14	62	1,220	2,930	5,190	4,720	3,370	5,490	6,080	1,240	296	348	336
15	63	1,270	3,110	5,050	4,760	3,660	5,320	6,060	1,140	285	328	340
16	64	1,310	3,310	4,910	4,770	4,410	5,280	5,960	1,040	282	308	346
17	68	1,340	3,500	4,820	4,820	4,910	5,170	6,020	930	284	294	352
18	72	1,370	3,720	4,690	4,780	5,480	5,210	5,940	840	297	281	357
19	76	1,590	3,940	4,570	4,740	5,780	5,170	5,920	750	350	269	358
20	80	1,730	4,140	4,390	4,690	5,980	5,150	5,890	671	445	252	360
21	82	1,930	4,390	4,360	4,630	6,060	5,110	5,820	596	499	237	366
22	86	2,150	4,590	4,250	4,600	6,060	5,200	5,690	532	502	222	367
23	93	2,330	4,750	4,130	4,550	6,070	5,210	5,550	484	471	209	359
24	92	2,570	4,860	4,020	4,500	6,170	5,350	5,400	441	429	196	354
25	88	2,800	4,920	3,880	4,440	6,120	5,470	5,240	408	390	187	347
26	82	2,900	4,980	3,920	4,310	6,080	5,450	5,120	375	357	182	337
27	104	2,950	5,030	3,830	4,220	6,020	5,540	4,830	357	344	175	323
28	121	3,100	5,030	3,840	4,100	5,990	5,650	4,590	339	345	171	307
29	129	3,150	5,040	3,830	-----	5,980	5,740	4,340	331	348	170	298
30	156	3,200	5,060	3,810	-----	5,990	5,850	4,070	325	356	166	281
31	186	-----	5,100	3,770	-----	5,980	-----	3,770	-----	359	163	-----
TOTAL	2,673	43,185	117,380	144,720	124,780	142,830	168,300	175,510	39,999	10,690	8,795	9,200
MEAN	86.2	1,440	3,786	4,668	4,456	4,607	5,610	5,662	1,333	345	284	307
MAX	186	3,200	5,100	5,410	4,820	6,170	6,070	6,160	3,410	502	401	367
MIN	62	150	2,850	3,770	3,960	2,970	5,110	3,770	325	282	163	162
AC-FT	5,300	85,660	232,800	287,100	247,500	283,300	333,800	348,100	79,340	21,200	17,440	18,250
CAL YR 1972: TOTAL	330,590	MEAN	903	MAX	5,100	MIN	62	AC-FT	655,700			
WTR YR 1973: TOTAL	988,062	MEAN	2,707	MAX	6,170	MIN	62	AC-FT	1,960,000			

LOCATION.--Lat 32°58'55", long 91°48'20", in SE $\frac{1}{4}$ sec.13, T.23 N., R.6 E., Morehouse Parish, near center of span on downstream side of bridge on parish road, 1.9 miles downstream from Arkansas-Louisiana State line, and 6 miles northeast of Beekman.

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 76.08 ft above mean sea level. Prior to Jan. 28, 1956, nonrecording gage, Jan. 29, 1956, to Oct. 1, 1966, at datum 9.50 ft higher. Auxiliary water-stage recorder 4 miles downstream. Datum of auxiliary gage is 76.08 ft above mean sea level. Prior to Sept. 30, 1968, water-stage recorder for Bayou Bartholomew near Beekman (sta 07364500) used as auxiliary gage for this station.

AVERAGE DISCHARGE.--18 years, 254 cfs (184,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 11,600 cfs Mar. 17; maximum gage height, 25.89 ft Mar. 17; minimum discharge, 5.3 cfs Sept. 30.
Period of record: Maximum discharge, 29,500 cfs Apr. 26, 1958; maximum gage height, 28.21 ft Apr. 27, 1958, present datum; no flow at times in 1956, 1963, 1965, 1966, 1971.

REMARKS.--Records fair. Some diversions above station for irrigation. Records of chemical analyses and water temperatures for the water year 1973 are published in Part 2 of this report.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	174	363	341	790	92	1,170	1,350	242	11	15	14
2	10	134	249	471	1,050	90	1,190	1,080	223	12	12	14
3	9.7	125	206	511	1,270	94	1,160	860	217	12	10	20
4	13	103	117	569	1,290	152	1,060	717	150	18	10	36
5	15	68	66	660	1,250	306	939	661	96	26	10	70
6	13	41	106	973	1,000	471	832	634	51	20	16	90
7	11	220	186	1,490	759	697	780	645	24	28	22	148
8	11	552	207	2,470	654	891	750	663	17	19	20	216
9	11	669	330	2,450	697	1,060	757	679	15	32	17	310
10	11	705	795	2,010	758	1,090	744	662	15	66	14	326
11	12	698	1,280	1,640	790	1,540	701	617	13	81	12	303
12	13	678	1,560	1,290	769	2,660	647	557	12	67	11	283
13	13	664	1,840	981	717	3,330	576	519	16	49	10	259
14	13	609	1,890	737	765	2,630	511	489	28	33	9.0	191
15	13	471	2,390	576	1,020	2,020	455	430	18	22	8.0	114
16	13	313	3,290	465	1,120	5,960	575	370	50	16	7.5	51
17	13	253	3,190	397	1,010	10,900	902	320	122	16	7.5	21
18	13	307	2,430	329	831	7,110	2,210	280	94	82	7.0	14
19	13	727	1,740	253	655	4,350	4,810	250	57	156	7.5	13
20	13	955	1,210	183	511	3,180	5,280	230	36	158	7.5	11
21	13	1,290	922	295	397	2,360	4,040	213	21	128	12	7.9
22	14	1,630	888	601	299	1,740	2,950	219	14	124	12	8.1
23	18	1,440	893	823	221	1,300	2,230	202	13	136	11	11
24	19	1,110	830	1,010	174	1,060	1,850	195	15	125	13	12
25	20	919	726	1,150	144	1,190	2,080	211	15	92	14	11
26	20	829	597	1,060	122	1,280	2,710	207	12	70	14	9.4
27	45	777	473	923	108	1,330	3,640	193	9.5	30	13	8.5
28	42	732	326	857	99	1,310	3,060	177	8.5	44	11	8.2
29	37	587	178	829	-----	1,260	2,340	179	9.6	28	12	7.8
30	128	461	113	777	-----	1,160	1,770	222	11	19	11	6.1
31	209	-----	176	694	-----	1,150	-----	250	-----	18	12	-----
TOTAL	809.7	18,241	29,567	27,815	19,270	63,763	52,719	14,281	1,624.6	1,738	368.0	2,594.0
MEAN	26.1	608	954	897	688	2,057	1,757	461	54.2	56.1	11.9	86.5
MAX	209	1,630	3,290	2,470	1,290	10,900	5,280	1,350	242	158	22	326
MIN	9.7	41	66	183	99	90	455	177	8.5	11	7.0	6.1
AC-FT	1,610	36,180	58,650	55,170	38,220	126,500	104,600	28,330	3,220	3,450	730	5,150
CAL YR 1972												

RED RIVER BASIN

07364500 Bayou Bartholomew near Beekman, La.

LOCATION.--Lat 32°52'20", long 91°52'04", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.21, T.22 N., R.6 E., Morehouse Parish, near right bank on downstream end of pier of bridge on State Highway 139, 0.6 mile downstream from Bayou de Glaize, 3.6 miles south of Beekman, and 7.0 miles north-west of Bastrop court house.

DRAINAGE AREA.--1,645 sq mi.

PERIOD OF RECORD.--August 1928 to September 1931, October 1938 to September 1959. October 1959 to current year (annual maximum and gage heights only). Monthly discharge for some periods, published in WSP 1311. August 1928 to October 1931 (fragmentary) in files of Corps of Engineers, Vicksburg district, since August 1932 in reports of Corps of Engineers, Vicksburg district.

GAGE.--Water-stage recorder. Datum of gage is 70.60 ft above mean sea level (levels by Corps of Engineers). Feb. 3, 1939, to Aug. 17, 1955, nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum discharge, 10,400 cfs Mar. 18 (gage height, 26.79 ft); minimum gage height, 0.84 ft Oct. 16-18. Period of record: Maximum discharge, 14,700 cfs May 2, 1958 (gage height, 28.30 ft); minimum gage height, 0.63 ft July 23-26, 1966, and Nov. 27, 28, 1967.

1928-31, 1938-59: Minimum discharge, 38 cfs July 30, 1956.

A stage of 26.75 ft (from floodmark) occurred Apr. 17, 1927 (affected by overflow from Mississippi River). A discharge of 12,400 cfs (gage height, 25.78 ft) was measured by the Corps of Engineers Jan. 12, 1932.

REMARKS.--Small diversions above station for irrigation. In extreme floods, considerable flow bypasses station. Most of flow is into the Bayou Lafourche-Boeuf River basins via interconnecting system of bayous and drainage ditches and passes the two stations, Bayou Lafourche near Crew Lake and Boeuf River at Girard (see sta 07369000 and 07368000).

GAGE HEIGHT, IN FEET, AT 0800, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.72	3.67	16.42	19.97	19.51	18.18	24.02	24.53	19.75	3.47	3.23	1.87
2	1.45	3.56	16.28	20.00	19.76	17.96	24.00	24.34	19.22	3.37	3.14	1.86
3	1.29	3.08	16.10	20.14	19.82	17.72	24.00	24.21	18.56	3.27	3.03	1.90
4	1.20	2.69	15.85	20.34	20.00	17.53	23.97	24.03	17.84	3.25	2.93	2.00
5	1.10	2.43	15.58	20.42	20.12	17.42	23.89	23.88	17.15	3.39	2.86	2.74
6	1.08	2.16	15.38	21.35	20.20	17.23	23.79	23.79	16.47	3.50	2.83	3.49
7	1.07	2.70	15.18	21.85	20.12	17.60	23.74	23.83	16.78	3.36	2.89	3.47
8	1.02	4.53	15.04	22.61	19.94	17.83	23.70	23.86	15.10	3.34	2.98	3.93
9	.98	5.98	15.08	23.09	19.95	17.91	23.60	23.82	14.43	3.31	3.07	4.29
10	.94	7.02	15.64	23.36	20.00	18.07	23.53	23.80	13.82	3.32	3.19	4.69
11	.92	7.93	16.96	23.39	20.05	19.24	23.33	23.74	13.22	3.34	3.27	4.87
12	.90	8.66	17.46	23.25	20.05	19.94	23.31	23.68	12.63	3.42	3.29	4.86
13	.89	9.27	17.91	22.99	20.01	20.61	23.16	23.58	12.10	3.38	3.26	4.74
14	.88	9.91	18.44	22.64	20.28	21.00	22.98	23.43	11.67	3.29	3.17	4.68
15	.86	10.22	19.33	22.28	20.40	21.11	23.77	23.31	11.12	3.14	3.11	4.50
16	.85	10.24	20.15	21.91	20.61	22.32	23.03	23.20	10.50	3.09	2.98	4.12
17	.84	10.08	20.86	21.54	20.79	25.12	23.30	23.10	9.84	2.95	2.82	3.67
18	.84	10.03	21.31	21.16	20.81	26.60	23.83	23.00	9.34	2.84	2.73	3.44
19	.86	11.38	21.37	20.75	20.71	26.71	24.52	22.87	8.71	3.03	2.64	3.29
20	.87	12.30	21.25	20.35	20.51	26.16	25.25	22.79	8.04	3.67	2.58	3.23
21	.90	12.99	21.06	20.26	20.28	25.55	25.61	22.63	7.30	4.24	2.49	3.18
22	.93	13.92	20.89	20.42	20.02	24.94	25.52	22.46	6.56	4.58	2.42	3.15
23	1.08	15.15	20.78	20.27	19.76	24.42	25.18	22.29	5.88	4.69	2.31	3.12
24	1.07	15.75	20.73	20.17	19.46	24.01	24.75	22.16	5.33	4.71	2.18	3.07
25	1.04	16.09	20.69	20.15	19.19	24.36	25.11	22.01	4.86	4.53	2.11	3.05
26	1.02	16.31	20.62	20.30	18.93	24.20	24.98	21.78	4.67	4.19	2.09	3.03
27	1.77	16.36	20.52	20.34	18.68	24.08	25.00	21.55	4.27	3.83	2.06	2.95
28	2.54	16.45	20.38	20.21	18.43	24.02	25.12	21.24	3.98	3.54	1.99	2.87
29	2.17	16.53	20.21	19.98	-----	24.00	25.04	20.92	3.77	3.34	2.05	2.82
30	2.15	16.50	20.02	19.72	-----	23.98	24.78	20.59	3.60	3.19	1.93	2.74
31	3.54	-----	20.02	19.44	-----	24.04	-----	20.22	-----	3.18	1.89	-----
MAX	3.54	16.53	21.37	23.39	20.81	26.71	25.61	24.53	19.75	4.71	3.29	1.86
MIN	.84	2.16	15.04	19.44	18.43	17.23	22.98	20.22	3.60	2.84	1.89	4.87

07364700 Bayou de Loutre near Laran, La.

LOCATION.--Lat 32°57'19", long 92°29'59", in NW¼ sec.29, T.23 N., R.1 W., Union Parish, near center of span on downstream side of bridge on parish road, 1.5 miles southwest of Laran, 1.5 miles downstream from Lion Creek, and 3.0 miles upstream from bridge on State Highway 550.

DRAINAGE AREA.--141 sq mi.

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 112.34 ft above mean sea level. Prior to Jan. 31, 1956, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--18 years, 166 cfs (15.99 inches per year, 120,300 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,830 cfs Mar. 17 (gage height, 11.29 ft); minimum, 8.9 cfs Oct. 15-18 (gage height, 1.43 ft).
Period of record: Maximum discharge, 22,600 cfs Apr. 27, 1958 (gage height, 20.29 ft, from floodmark); minimum, 1.0 cfs July 21, 25, 26, 1964; minimum gage height, 1.04 ft Aug. 16-18, 1967.

REMARKS.--Records fair. Records of chemical analyses and water temperatures for the water year 1973 are published in Part 2 of this report.

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	28	342	197	178	502	90	440	250	45	22	50	17
2	28	332	149	174	602	131	450	200	40	26	60	18
3	25	289	104	167	648	174	452	160	35	28	70	22
4	20	268	82	179	862	294	411	146	37	29	50	26
5	16	235	73	232	747	454	307	185	40	47	35	114
6	14	176	76	469	535	582	202	378	45	77	30	244
7	13	262	80	800	342	695	193	469	50	92	25	274
8	12	421	91	900	343	720	223	413	60	142	24	248
9	11	450	139	1,000	437	643	268	332	64	187	19	273
10	11	401	335	700	469	663	284	303	52	252	15	326
11	10	384	598	500	544	784	277	310	38	363	15	254
12	9.8	384	652	400	614	701	258	253	40	342	15	121
13	9.5	336	620	300	513	625	229	155	52	224	16	52
14	9.2	270	695	250	395	683	200	101	55	202	15	34
15	8.9	228	979	204	311	807	150	78	83	242	15	28
16	8.9	210	1,330	183	279	1,270	300	65	96	226	16	25
17	8.9	191	1,720	168	261	2,500	400	56	85	119	48	23
18	9.2	264	1,260	158	243	2,530	500	47	72	95	37	20
19	11	534	812	151	203	1,620	700	40	52	79	31	19
20	13	710	594	154	157	903	900	46	44	56	28	17
21	13	864	447	419	124	604	700	61	33	44	23	16
22	35	923	449	588	105	398	500	70	31	34	19	16
23	77	723	502	563	96	250	400	60	27	28	18	16
24	79	513	506	504	91	268	500	70	23	23	16	18
25	82	383	467	506	88	672	700	100	20	24	14	29
26	80	320	425	506	85	889	1,500	80	20	24	13	26
27	176	285	343	464	86	1,260	1,900	90	18	23	11	25
28	213	253	242	422	86	920	2,000	120	16	22	13	34
29	229	229	170	380	-----	663	1,000	90	15	21	27	53
30	258	223	145	386	-----	515	500	60	20	20	22	46
31	306	-----	159	395	-----	471	-----	50	-----	30	19	-----
TOTAL	1,824.4	11,403	14,441	12,400	9,768	23,779	16,844	4,838	1,308	3,143	809	2,434
MEAN	58.9	380	466	400	349	767	561	156	43.6	101	26.1	81.1
MAX	306	923	1,720	1,000	862	2,530	2,000	469	96	363	70	326
MIN	8.9	176	73	151	85	90	150	40	15	20	11	16
CFSM	.42	2.70	3.31	2.84	2.48	5.44	3.98	1.11	.31	.72	.19	.58
IN.	.48	3.01	3.81	3.27	2.58	6.27	4.44	1.28	.35	.83	.21	.64
AC-FT	3,620	22,620	28,640	24,600	19,370	47,170	33,410	9,600	2,590	6,230	1,600	4,830

CAL YR 1972 TOTAL 57,690.3 MEAN 158 MAX 1,790 MIN 7.0 CFSM 1.12 IN 15.22 AC-FT 114,400
WTR YR 1973 TOTAL 102,991.4 MEAN 282 MAX 2,530 MIN 8.9 CFSM 2.00 IN 27.17 AC-FT 204,300

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-17	0845	9.68	1,780	3-27	0945	8.91	1,330
1-9	unknown	unknown	1,000	4-28	unknown	unknown	2,000
3-17	2000	11.29	2,830				

RED RIVER BASIN

07364840 Lake Claiborne near Aycock, La.

LOCATION.--Lat 32°44'20", long 92°54'18", in sec.8, T.20 N., R.5 W., Claiborne Parish, on parish road 518 at dam 2.0 miles northeast of Aycock.

DRAINAGE AREA.--133 sq mi.

PERIOD OF RECORD.--1962 (one discharge measurement), February 1968 to current year (gage heights and discharge measurements only).

GAGE.--Water-stage recorder. Datum of gage is 176.00 ft above mean sea level (levels by Louisiana Department of Public Works).

EXTREMES.--Current year: Maximum gage height, 11.19 ft Apr. 25; minimum, 8.56 ft Oct. 21.

Period of record: Maximum gage height, 11.19 ft Apr. 25, 1973; minimum since conservation pool first filled in May 1968, 3.63 ft, Nov. 17, 1971.

REMARKS.--Reservoir is formed by an earthfill dam, containing an uncontrolled concrete drop inlet spillway near the left end of dam. Outflow below spillway elevation is controlled by sluice gates at outlet. Capacity, 100,000 acre-ft at 9.0 ft gage height. Dam completed and storage began in 1966. Reservoir is used for flood control and conservation.

GAGE HEIGHT, IN FEET, AT 0800, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.78	9.30	9.42	9.69	10.02	9.50	10.18	10.16	9.24	9.10	9.27	9.01
2	8.76	9.34	9.41	9.64	10.10	9.56	10.05	10.09	9.22	9.09	9.25	9.00
3	8.75	9.33	9.40	9.67	10.04	9.56	10.01	10.13	9.20	9.09	9.22	8.99
4	8.74	9.32	9.40	9.64	9.99	9.64	9.94	10.12	9.20	9.10	9.20	8.99
5	8.73	9.30	9.39	9.64	9.94	9.78	9.88	10.04	9.30	9.10	9.19	9.20
6	8.73	9.28	9.40	9.89	9.90	9.79	9.80	9.94	9.32	9.09	9.18	9.37
7	8.72	9.32	9.37	10.11	9.87	9.91	9.88	10.00	9.31	9.34	9.17	9.69
8	8.70	9.31	9.36	10.24	10.00	9.91	9.87	10.10	9.30	9.46	9.15	9.97
9	8.69	9.30	9.41	10.20	10.09	9.87	9.92	10.01	9.29	9.44	9.14	9.98
10	8.68	9.30	9.59	10.11	10.08	9.80	9.88	9.93	9.28	9.41	9.12	9.89
11	8.67	9.28	9.66	10.04	10.01	9.90	9.81	9.85	9.27	9.39	9.10	9.80
12	8.65	9.25	9.70	9.97	9.98	9.87	9.79	9.80	9.25	9.34	9.09	9.72
13	8.65	9.36	9.70	9.90	9.98	9.81	9.75	9.75	9.22	9.30	9.12	9.68
14	8.64	9.40	9.72	9.88	10.00	9.82	9.71	9.69	9.22	9.29	9.14	9.61
15	8.62	9.36	10.15	9.82	9.95	9.93	9.69	9.63	9.22	9.28	9.18	9.56
16	8.61	9.34	10.19	9.80	9.90	10.34	10.04	9.58	9.21	9.39	9.18	9.50
17	8.60	9.32	10.11	9.80	9.84	10.62	10.20	9.51	9.20	9.37	9.18	9.47
18	8.60	9.38	10.01	9.78	9.80	10.52	10.40	9.48	9.19	9.41	9.17	9.40
19	8.62	9.58	9.99	9.76	9.80	10.38	10.39	9.45	9.17	9.40	9.18	9.36
20	8.60	9.59	9.91	9.72	9.78	10.31	10.33	9.45	9.24	9.38	9.16	9.32
21	8.58	9.57	9.97	9.91	9.73	10.15	10.27	9.42	9.22	9.33	9.15	9.31
22	8.58	9.54	10.02	10.00	9.70	10.04	10.19	9.40	9.22	9.30	9.12	9.30
23	8.81	9.50	9.99	10.00	9.67	9.96	10.11	9.38	9.20	9.29	9.10	9.28
24	8.80	9.48	9.97	9.96	9.60	9.91	10.30	9.38	9.20	9.28	9.09	9.25
25	8.79	9.54	9.88	9.90	9.58	10.53	11.09	9.35	9.19	9.25	9.08	9.28
26	8.78	9.58	9.81	9.99	9.55	10.55	11.09	9.32	9.18	9.22	9.06	9.28
27	9.11	9.52	9.78	10.00	9.53	10.42	10.85	9.33	9.14	9.22	9.03	9.24
28	9.16	9.51	9.71	10.06	9.51	10.28	10.63	9.33	9.12	9.20	9.00	9.30
29	9.17	9.49	9.69	9.99	-----	10.42	10.44	9.29	9.10	9.20	9.05	9.35
30	9.27	9.48	9.71	9.92	-----	10.32	10.30	9.28	9.10	9.20	9.06	9.33
31	9.30	-----	9.70	9.90	-----	10.28	-----	9.25	-----	9.21	9.02	-----
MAX	9.30	9.59	10.19	10.24	10.10	10.62	11.09	10.16	9.32	9.46	9.27	9.98
MIN	8.58	9.25	9.36	9.64	9.51	9.50	9.69	9.25	9.10	9.09	9.00	8.99

RED RIVER BASIN

55

07365800 Cornie Bayou near Three Creeks, Ark.

LOCATION.--Lat 33°02'21", long 92°56'15", in SW $\frac{1}{4}$ sec.36, T.19 S., R.18 W., Union County, on left bank at downstream side of bridge on State Highway 15, 3.4 miles downstream from Pidgeon Roost Creek, and 6.0 miles southwest of town of Three Creeks.

DRAINAGE AREA.--180 sq mi.

PERIOD OF RECORD.--February 1956 to September 1972.

GAGE.--Water-stage recorder. Prior to Oct. 29, 1959, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--16 years, 143 cfs (10.79 inches per year, 103,600 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,290 cfs Jan. 5 (gage height, 10.09 ft); no flow Sept. 15-16.

Period of record: Maximum discharge, 35,800 cfs Apr. 27, 1958 (gage height, 15.50 ft), from rating curve extended above 11,000 cfs on basis of contracted-opening measurement of peak flow; no flow at times in 1956, 1964, 1968, 1969, 1970, 1972.

Maximum stage since at least 1880, that of Apr. 27, 1958.

REMARKS.--Records good.

NOTE.--Records for 1973 water year are not available in time for inclusion in this report. They will be published in a subsequent report.

RECORDS FOR 1972 WATER YEAR ARE PUBLISHED ON PAGE 149 OF THIS REPORT.

RED RIVER BASIN

07366200 Little Corney Bayou near Lillie, La.

LOCATION.--Lat 32°55'43", long 92°37'56", in NW¼ sec.1, T.22 N., R.3 W., Union Parish, near center of span on downstream side of bridge on State Highway 15, 1.4 miles east of Lillie, and 2.5 miles upstream from mouth.

DRAINAGE AREA.--208 sq mi.

PERIOD OF RECORD.--October 1955 to current year. Prior to October 1957, published as Little Cornie Bayou near Lillie.

GAGE.--Water-stage recorder. Datum of gage is 91.48 ft above mean sea level. Prior to Jan. 27, 1956, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--18 years, 172 cfs (11.23 inches per year, 124,600 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 4,360 cfs Apr. 26 (gage height, 9.19 ft); minimum, 3.6 cfs Oct. 18, 19 (gage height, 1.34 ft).

Period of record: Maximum discharge, 21,400 cfs Apr. 28, 1958 (gage height, 16.52 ft, from floodmark); no flow Aug. 18-20, Sept. 21 to Oct. 1, Oct. 3-5, 1956, Aug. 11-14, 1964.

REMARKS.--Records fair. Records of chemical analyses and water temperatures for the water year 1973 are published in Part 2 of this report.

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	20	435	282	286	710	104	620	371	39	34	41	14		
2	17	430	127	308	724	179	580	246	34	37	40	9.8		
3	12	390	85	333	804	302	542	234	31	41	47	9.3		
4	8.2	267	74	338	1,190	489	483	252	31	51	37	13		
5	6.3	113	72	383	923	645	383	504	49	38	23	67		
6	5.4	69	82	635	625	668	273	869	75	27	18	248		
7	5.8	373	83	852	480	812	297	662	90	66	16	300		
8	6.0	450	96	1,190	477	914	375	592	67	186	15	270		
9	6.0	388	196	1,290	546	860	413	495	46	190	16	250		
10	6.0	354	483	970	596	766	433	465	35	210	13	324		
11	5.8	459	645	692	731	759	423	513	32	206	19	331		
12	5.4	576	680	557	780	692	405	413	35	77	31	252		
13	5.2	516	640	465	635	656	385	196	53	55	19	60		
14	5.0	413	905	363	532	625	278	98	70	61	29	35		
15	5.0	371	1,700	295	462	828	170	70	119	40	25	29		
16	4.5	340	1,730	271	415	1,880	504	57	73	43	23	25		
17	4.2	343	1,730	269	408	3,180	640	50	74	39	23	23		
18	4.0	456	1,530	278	413	2,820	780	45	70	45	21	20		
19	4.0	759	950	271	343	1,530	1,270	41	41	53	25	18		
20	5.6	828	674	265	213	950	923	46	35	43	24	16		
21	7.5	1,120	600	504	152	650	680	71	40	29	16	15		
22	23	1,410	620	572	126	510	584	83	42	23	11	14		
23	67	860	580	560	114	387	532	75	35	25	9.3	14		
24	74	605	543	572	109	380	620	145	27	26	8.0	14		
25	63	510	568	640	102	780	1,840	137	22	19	7.8	18		
26	54	438	588	645	96	1,320	3,840	89	19	16	7.3	22		
27	212	410	510	588	97	1,450	2,330	100	17	15	7.1	24		
28	317	395	371	536	101	1,050	1,080	182	15	13	6.6	23		
29	327	400	225	543	-----	820	674	131	14	13	14	34		
30	368	398	201	600	-----	674	510	70	21	13	22	31		
31	425	-----	265	596	-----	615	-----	49	-----	21	21	-----		
TOTAL	2,078.9	14,876	17,835	16,667	12,904	28,295	22,867	7,351	1,351	1,755	635.1	2,523.1		
MEAN	67.1	496	575	538	461	913	762	237	45.0	56.6	20.5	84.1		
MAX	425	1,410	1,730	1,290	1,190	3,180	3,840	869	119	210	47	331		
MIN	4.0	69	72	265	96	104	170	41	14	13	6.6	9.3		
CFSM	.32	2.38	2.76	2.59	2.22	4.39	3.66	1.14	.22	.27	.10	.40		
IN.	.37	2.66	3.19	2.98	2.31	5.06	4.09	1.31	.24	.31	.11	.45		
AC-FT	4,120	29,510	35,380	33,060	25,600	56,120	45,360	14,580	2,680	3,480	1,260	5,000		
CAL YR 1972	TOTAL	65,241.2	MEAN	178	MAX	2,450	MIN	1.8	CFSM	.86	IN	11.67	AC-FT	129,400
WTR YR 1973	TOTAL	129,138.1	MEAN	354	MAX	3,840	MIN	4.0	CFSM	1.70	IN	23.10	AC-FT	256,100

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-21	2215	7.58	1,710	3-17	2030	8.78	3,600
12-15	1945	7.79	2,000	3-27	0930	7.41	1,500
1-8	2330	7.28	1,350	4-19	0745	7.28	1,350
2-5	1215	7.20	1,360	4-25	1215	9.19	4,360

RED RIVER BASIN

57

07366300 Bayou D'Arbonne Lake at Farmerville, La.

LOCATION.--Lat 32°45'25", long 92°24'50", in NW¼NW¼ sec.6, T.20 N., R.1 E., Union Parish, near left bank on downstream side of bridge on State Highway 33, 0.6 mile southwest of Farmerville, and 5.0 miles upstream from dam.

DRAINAGE AREA.--1,607 sq mi.

PERIOD OF RECORD.--December 1964 to current year (gage heights and discharge measurements only). August 1925 to current year in reports of Corps of Engineers, Vicksburg district. Published as Lake D'Arbonne at Farmerville, December 1964 to September 1968.

GAGE.--Water-stage recorder. Datum of gage is 40.40 ft above mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum gage height, 42.76 ft Apr. 29; minimum, 31.71 ft Oct. 18.

Period of record: Maximum gage height, 42.76 ft Apr. 29, 1973; minimum, 30.83 ft Dec. 14, 1970.

Maximum stage known since 1925, 45.71 ft Apr. 30, 1958, from records of Corps of Engineers.

REMARKS.--Reservoir is formed by an earthfill dam, containing a 799-ft uncontrolled concrete spillway at left of dam. Outflow below spillway elevation is controlled by sluice gates at outlet. Capacity, 130,000 acre-ft at 39.6 ft gage height. There is no dead storage. Dam completed and storage began in 1964. Reservoir is used for flood control and conservation.

REVISIONS.--WRD 1971: Drainage area.

GAGE HEIGHT, IN FEET, AT 0800, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32.90	34.16	37.10	40.94	41.31	40.42	41.64	42.18	40.10	39.84	39.95	39.78
2	32.60	34.20	37.07	40.86	41.35	40.46	41.50	41.88	40.09	39.82	39.94	39.79
3	32.40	34.16	37.00	40.83	41.38	40.45	41.38	41.59	40.06	39.81	39.93	39.80
4	32.19	34.12	36.88	40.78	41.39	40.50	41.24	41.34	40.08	39.81	39.91	39.83
5	32.09	34.06	36.76	40.73	41.40	40.58	41.13	41.16	40.04	39.84	39.89	40.01
6	31.98	33.90	36.64	40.96	41.43	40.70	41.02	41.03	40.05	39.84	39.88	40.20
7	31.96	33.85	36.45	41.21	41.43	40.92	40.99	41.14	40.04	39.87	39.87	40.32
8	31.95	33.76	36.28	41.59	41.45	41.04	40.93	41.25	40.02	39.90	39.86	40.38
9	31.93	33.71	36.21	41.71	41.43	41.15	40.91	41.34	40.02	39.96	39.86	40.40
10	31.91	33.65	36.33	41.81	41.37	41.28	40.84	41.36	40.00	40.00	39.84	40.42
11	31.89	33.53	36.65	41.85	41.32	41.56	40.82	41.29	39.98	40.01	39.86	40.52
12	31.87	33.38	37.04	41.78	41.25	41.61	40.80	41.20	39.99	40.05	39.83	40.50
13	31.85	33.36	37.48	41.65	41.24	41.56	40.78	41.11	39.98	40.03	39.83	40.50
14	31.84	33.40	37.94	41.51	41.27	41.46	40.75	40.98	40.02	40.00	39.81	40.49
15	31.81	33.53	38.66	41.36	41.24	41.51	40.73	40.84	40.05	39.98	39.79	40.46
16	31.78	33.62	39.60	41.20	41.21	41.96	41.08	40.68	40.05	40.02	39.77	40.44
17	31.76	33.66	40.51	41.06	41.13	42.30	41.31	40.55	40.03	40.01	39.77	40.39
18	31.74	33.70	41.06	40.96	41.06	42.46	41.49	40.44	40.01	40.02	39.77	40.31
19	31.76	33.90	41.56	40.88	40.97	42.65	41.57	40.37	40.00	40.01	39.79	40.24
20	31.74	34.20	41.77	40.80	40.89	42.65	41.66	40.33	40.06	39.99	39.80	40.17
21	31.76	34.50	41.80	41.12	40.82	42.44	41.75	40.29	40.04	39.99	39.79	40.12
22	31.78	34.78	41.76	41.35	40.73	42.18	41.81	40.27	40.01	39.97	39.77	40.08
23	32.03	35.03	41.68	41.41	40.67	41.90	41.73	40.24	39.99	39.96	39.75	40.05
24	32.17	35.33	41.55	41.41	40.62	41.65	41.59	40.23	39.97	39.95	39.74	40.02
25	32.26	35.80	41.38	41.38	40.56	41.76	41.86	40.23	39.95	39.96	39.73	40.03
26	32.34	36.27	41.25	41.40	40.52	41.67	41.93	40.24	39.91	39.94	39.72	40.00
27	32.71	36.70	41.15	41.37	40.48	41.66	42.11	40.24	39.89	39.91	39.70	39.98
28	33.06	36.90	41.06	41.35	40.44	41.75	42.61	40.20	39.87	39.92	39.68	39.97
29	33.40	37.04	41.00	41.27	-----	41.85	42.74	40.16	39.85	39.91	39.80	40.02
30	33.88	37.10	40.96	41.23	-----	41.84	42.51	40.14	39.85	39.90	39.81	40.01
31	34.13	-----	41.00	41.18	-----	41.77	-----	40.13	-----	39.94	39.80	-----
MAX	34.13	37.10	41.80	41.85	41.45	42.65	42.74	42.18	40.10	40.05	39.95	40.52
MIN	31.74	33.36	36.21	40.73	40.44	40.42	40.73	40.13	39.85	39.81	39.68	39.78

07367000 Ouachita River at Monroe, La.

LOCATION.--Lat 32°30'19", long 92°07'32", in lot 50, T.18 N., R.3 E., Ouachita Parish, near center of span on downstream side of bridge on U. S. Highway 80 at Monroe, 0.4 mile upstream from Illinois Central Railroad bridge, and 5.5 miles upstream from lock and dam No. 4.

DRAINAGE AREA.--15,298 sq mi.

PERIOD OF RECORD.--January 1932 to September 1972. Monthly discharge only for some periods, published in WSP 1311. 1884 to 1891 (gage heights), 1892 to 1927 (gage heights and discharge measurements), and since January 1928 (daily discharges) in reports of Mississippi River Commission. Discharge measurements 1929-38 in reports of Corps of Engineers. Daily gage heights since June 1884 in reports of U. S. Weather Bureau.

GAGE.--Nonrecording gage read once daily. Datum of gage is 31.40 ft above mean sea level (levels by Corps of Engineers). Prior to Jan. 6, 1937, nonrecording gages at several sites within half a mile of present site at same datum. Since Jan. 1, 1954, supplemental nonrecording gage 2.2 miles downstream from lock and dam No. 4 read twice daily, at datum 30.10 ft above mean sea level.

AVERAGE DISCHARGE.--40 years (1932-72), 16,750 cfs (12,140,000 acre-ft per year).

EXTREMES.--1971-72: Maximum daily discharge during year, 31,800 cfs Jan. 15; maximum gage height, 28.6 ft Jan. 15; minimum discharge not determined; minimum gage height observed, 13.5 ft Apr. 26.

Period of record: Maximum discharge, 101,000 cfs on Feb. 2, 3, 1932; maximum gage height, 50.45 ft May 23, 1958; minimum discharge not determined (pool stage); minimum gage height observed, 12.1 ft Jan. 3, 1944.

REMARKS.--Stage-discharge relation below 10,000 cfs affected by operation of locks and dams. Flow regulated by Lake Greason since November 1949 (usable capacity, 330,000 acre-ft), by Lake Catherine since 1925 (usable capacity, 21,300 acre-ft), by Lake Hamilton since 1932 (usable capacity, 119,560 acre-ft), by Lake Ouachita since July 1952 (usable capacity, 1,903,000 acre-ft), and a series of locks and dams. Records of chemical analyses and water temperatures for the water year 1973 are published in Part 2 of this report.

COOPERATION.--Gage-height record, and records of daily discharges furnished by Corps of Engineers; records reviewed by Geological Survey.

NOTE.--Records for 1973 water year are not available in time for inclusion in this report. They will be published in a subsequent report.

RED RIVER BASIN

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07367700 Boeuf River near Arkansas-Louisiana State line

LOCATION.--Lat 32°58'25", long 91°26'25", in NE 1/4 sec. 21, T. 23 N., R. 10 E., Morehouse-West Carroll Parish line, near left bank on downstream side of bridge on State Highway 835, 2.0 miles downstream from Arkansas-Louisiana State line, and 7.5 miles southwest of Kilbourne.

DRAINAGE AREA.--785 sq mi (see REMARKS).

PERIOD OF RECORD.--October 1957 to September 1968. October 1968 to current year (annual maximum gage height and discharge below 200 cfs only). Gage-height record and occasional discharge measurements since May 1946 in files of Corps of Engineers, Vicksburg district.

GAGE.--Water-stage recorder. Datum of gage is 74.11 ft above mean sea level (levels by Corps of Engineers). Prior to Dec. 31, 1957, nonrecording gage, Dec. 31, 1957, to Oct. 1, 1961, water-stage recorder on left bank 300 ft upstream at same datum. May 4, 1959, to Dec. 4, 1962, auxiliary nonrecording gage and Dec. 5, 1962, to Apr. 6, 1969, auxiliary water-stage recorder 1.7 miles downstream at datum 74.35 ft above mean sea level.

AVERAGE DISCHARGE.--11 years (1958-68), 952 cfs (689,700 acre-ft per year).

EXTREMES.--Current year: Maximum gage height, 23.41 ft about Mar. 17; minimum daily discharge, 10 cfs Aug. 11, 12; minimum gage height, -0.86 ft Aug. 11.

Period of record: Maximum gage height, 23.41 ft about Mar. 17, 1973; no flow June 13-19, July 15, 16, 29, 30, 1966, result of pumping for irrigation.

1957-68: Maximum discharge, 16,500 cfs Feb. 11, 1966.

A stage of 22.8 ft was reached Feb. 15, 1948 (from records of Corps of Engineers, Vicksburg district).

REMARKS.--Records poor. Small diversions above station for irrigation. Interconnecting system of bayous and drainage ditches produces an interchange of flow under varying conditions; hence, the drainage limits were more or less arbitrarily determined. In extreme floods, considerable flow bypasses station. Flow re-enters and passes stations Bayou Lafourche near Crew Lake, and Boeuf River near Girard. (See stations 07369000 and 07368000.) Records of chemical analyses and water temperatures for the water year 1973 are published in Part 2 of this report.

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	45					163						50
2	44											70
3	43											185
4	41											
5	40										135	
6	38	192									65	
7	37										30	
8	36										20	
9	35										15	
10	35										15	
11	34										10	
12	33										10	
13	34										15	195
14	35										20	166
15	34										30	130
16	33										25	111
17	31										25	61
18	33										25	39
19	35										55	31
20	33										40	26
21	31										30	20
22	37										20	18
23	58										20	15
24	60										15	15
25	49										15	15
26	46										15	14
27											20	13
28					180						20	13
29					-----						20	13
30					-----						30	12
31		-----			-----		-----		-----		45	-----
MAX	-	-			-	-					-	-
MIN	31	192			180	163					10	12

RED RIVER BASIN

07368000 Boeuf River near Girard, La.

LOCATION.--Lat 32°28'52", long 91°47'52", on line between sec.1, T.17 N., R.6 E., and sec.6, T.17 N., R.7 E., Richland Parish, on downstream side of bridge on U.S. Highway 80, and 0.5 mile east of Girard.

DRAINAGE AREA.--1,226 sq mi (see REMARKS).

PERIOD OF RECORD.--October 1938 to current year. Daily gage heights as follows: 1886-94 in reports of U. S. Weather Bureau; September 1925 to December 1931 in files of Corps of Engineers, Vicksburg district; since January 1932 in reports of Corps of Engineers, Vicksburg district.

GAGE.--Water-stage recorder. Datum of gage is 49.42 ft above mean sea level (levels by Corps of Engineers). Prior to Nov. 3, 1955, nonrecording gages at sites within 200 ft upstream. Prior to Oct. 1, 1966, at datum 2.20 ft higher. Auxiliary water-stage recorder 6.4 miles downstream at datum 49.40 ft above mean sea level. Dec. 8, 1952, to Nov. 19, 1962, auxiliary nonrecording gage 8.1 miles downstream at different datum. Feb. 15, 1945, to Dec. 8, 1952, auxiliary nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--35 years, 409 cfs (296,300 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,870 cfs Mar. 19; maximum gage height, 16.80 ft Mar. 19; minimum discharge, 14 cfs Oct. 26 (gage height, 2.93 ft).

Period of record: Maximum discharge, 3,070 cfs May 2, 1958; maximum gage height, 21.51 ft May 6, 1958, present datum; minimum discharge, 9.9 cfs Aug. 17, 18, 1969; minimum gage height, 2.79 ft June 1, 2, 1972.

Flood of May 7, 1927, reached a stage of 31.7 ft, present site and datum (affected by overflow from Mississippi River).

REMARKS.--Records fair. Large diversions above station for irrigation. Interconnecting system of bayous and drainage ditches produces an interchange of flow under varying conditions; hence the drainage limits were more or less arbitrarily determined. Boeuf River and Bayou Lafourche basins are connected by canal upstream. In extreme floods, considerable flow from Bayou Bartholomew basin passes this station. Records of chemical analyses and water temperatures for the water year 1973 are published in Part 2 of this report.

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	50	50	260	74	241	34	335	843	234	80	54	46
2	47	52	197	132	341	34	316	652	228	76	53	47
3	44	48	160	150	452	31	261	520	218	71	56	46
4	43	43	117	146	478	29	226	491	221	67	61	48
5	41	34	77	202	389	28	199	422	223	63	61	69
6	40	27	53	404	277	48	186	351	217	59	57	84
7	40	26	41	785	194	168	221	364	226	58	53	128
8	40	32	41	1,100	158	257	222	393	201	56	52	146
9	38	327	60	1,220	155	337	222	345	196	52	50	134
10	37	588	279	1,210	228	330	198	300	192	48	48	116
11	37	673	708	1,020	307	393	187	279	185	46	47	106
12	36	600	958	694	292	643	180	346	180	38	46	94
13	36	467	1,060	427	242	911	173	331	166	36	55	76
14	36	357	1,060	270	264	1,040	168	307	169	34	49	64
15	35	302	1,170	190	383	1,000	175	292	168	31	49	52
16	37	261	1,220	148	441	1,380	199	301	163	31	48	45
17	36	205	1,240	131	355	1,710	259	284	162	34	49	40
18	31	172	1,200	121	247	1,820	645	290	152	34	51	35
19	25	159	1,090	109	177	1,850	911	290	146	44	49	32
20	20	348	780	96	138	1,810	1,090	284	144	59	48	29
21	17	661	550	127	118	1,770	1,190	273	121	74	48	27
22	16	778	481	201	96	1,730	1,240	273	119	82	48	26
23	18	746	471	421	80	1,660	1,230	271	114	86	47	25
24	16	553	417	607	68	1,520	1,120	269	110	73	46	24
25	15	361	327	604	58	1,330	1,130	263	105	62	46	23
26	15	269	243	496	48	1,220	1,210	265	101	55	46	22
27	21	273	180	388	41	1,150	1,280	273	97	53	46	21
28	25	311	148	345	36	1,030	1,300	261	92	52	46	22
29	34	368	125	316	-----	803	1,230	257	88	51	48	23
30	41	345	97	266	-----	545	1,070	253	84	49	48	22
31	44	-----	74	210	-----	390	-----	224	-----	51	46	-----
TOTAL	1,011	9,436	14,884	12,610	6,304	27,001	18,373	10,527	4,822	1,705	1,551	1,672
MEAN	32.6	315	480	407	225	871	612	340	161	55.0	50.0	55.7
MAX	50	778	1,240	1,220	478	1,850	1,300	843	234	86	61	146
MIN	15	26	41	74	36	28	168	224	84	31	46	21
AC-FT	2,010	18,710	29,520	25,010	12,500	53,560	36,440	20,880	9,560	3,380	3,080	3,320
CAL YR 1972:	TOTAL	59,434	MEAN	162	MAX	1,870	MIN	15	AC-FT	117,900		
WTR YR 1973:	TOTAL	109,896	MEAN	301	MAX	1,850	MIN	15	AC-FT	218,000		

07368500 Big Colewa Bayou near Oak Grove, La.

LOCATION.--Lat 32°47'55", long 91°30'05", in NE¼ sec.24, T.21 N., R.9 E., West Carroll Parish, on downstream side near center of bridge on State Highway 2, 0.1 mile downstream from Little Colewa Bayou, and 8 miles southwest of Oak Grove.

DRAINAGE AREA.--42 sq mi (see REMARKS).

PERIOD OF RECORD.--October 1949 to current year. Daily elevations since October 1940 in reports of Corps of Engineers, Vicksburg district.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Auxiliary water-stage recorder 5.7 miles downstream at same datum as base gage. See WSP 1731 for history of changes prior to Jan. 11, 1955.

AVERAGE DISCHARGE.--24 years, 48.6 cfs (35,210 acre-ft per year).

EXTREMES.--Current year: Maximum daily discharge, 1,450 cfs Mar 16; maximum elevation, 94.30 ft Mar. 17; no flow Oct. 13-24, Aug. 2-13.

Period of record: Maximum discharge, 2,050 cfs Mar. 22, 1955; maximum elevation, 95.22 ft Jan. 4, 1951 (present datum); no flow at times each year.

Maximum elevation known since 1940, 95.5 ft Apr. 12, 1947, (present datum), from records of Corps of Engineers.

REMARKS.--Records poor. Interconnecting system of bayous and drainage ditches produces an interchange of flow under varying conditions; hence, the drainage limits were more or less arbitrarily determined. Records of chemical analyses and water temperatures for the water year 1973 are published in Part 2 of this report.

COOPERATION.--Base gage elevation record furnished by Corps of Engineers.

REVISIONS.--WSP 1241: Drainage area.

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	.50	9.4	59	3.9	466	.91	3.5	4.6	.42	.40	.02	1.4
2	.68	12	14	4.2	512	3.5	2.9	4.5	.40	.32	0	1.0
3	.91	8.5	6.9	24	247	4.7	2.4	13	.28	.28	0	.92
4	.91	5.0	4.3	102	42	6.9	2.1	21	.26	.60	0	3.6
5	.85	3.2	2.8	196	7.3	12	1.6	8.8	.24	3.4	0	32
6	.70	2.2	2.0	730	3.7	34	1.4	5.6	.24	3.5	0	251
7	.48	69	2.0	811	2.4	356	15	99	.22	3.5	0	150
8	.35	175	5.2	1,010	92	156	64	191	.13	5.9	0	23
9	.24	90	212	913	134	14	14	36	.09	4.4	0	7.3
10	.12	31	666	594	18	29	7.2	7.6	.05	3.0	0	5.1
11	.06	9.4	960	236	5.9	579	5.1	4.5	.04	2.1	0	3.9
12	.04	4.3	923	64	3.7	519	3.8	130	1.6	1.6	0	2.8
13	0	102	707	8.9	165	221	2.8	194	2.7	1.1	0	2.2
14	0	214	576	4.7	607	151	2.3	18	5.8	.85	8.3	1.6
15	0	40	950	3.5	467	700	2.0	6.0	6.8	.70	17	1.3
16	0	11	901	2.6	204	1,450	324	3.8	4.3	.60	3.5	1.1
17	0	5.3	594	2.1	40	1,400	447	2.7	2.8	.53	1.9	.85
18	0	16	289	2.0	7.3	1,350	893	1.8	1.8	.49	1.3	.80
19	0	221	110	1.6	3.5	1,100	1,070	1.3	1.2	.42	.96	.65
20	0	162	17	1.6	2.4	750	982	1.0	4.5	.36	.80	.60
21	0	60	96	334	1.8	550	654	.85	6.0	.28	.60	.56
22	0	15	150	417	1.6	400	353	.68	3.5	.20	.51	.42
23	0	6.6	40	185	1.3	311	138	.60	2.4	.18	.38	.38
24	0	4.2	14	24	1.3	330	214	.56	1.6	.14	.36	.34
25	.06	54	7.3	6.9	1.0	783	600	.56	1.2	.13	.26	.30
26	.14	68	5.0	145	1.0	546	500	.56	.85	.16	.18	.24
27	59	20	3.7	132	.88	.68	400	.60	.75	.14	.14	.20
28	29	296	2.8	79	.80	64	271	.60	.58	.11	.13	.18
29	8.9	269	2.0	28	-----	7.2	36	.60	.49	.07	.75	.14
30	22	126	2.0	9.4	-----	5.3	7.0	.56	.40	.07	2.0	.13
31	24	-----	3.0	5.3	-----	4.5	-----	.51	-----	.05	1.8	-----
TOTAL	148.94	3,115.1	7,327.0	6,080.7	3,039.88	12,106.01	7,019.1	760.88	51.64	35.58	40.89	494.01
MEAN	4.80	70.5	236	196	109	391	234	24.5	1.72	1.15	1.32	16.5
MAX	59	296	960	1,010	607	1,450	1,070	194	6.8	5.9	17	251
MIN	0	2.2	2.0	1.6	.80	.91	1.4	.51	.04	.05	0	.13
AC-FT	295	4,200	14,550	12,060	6,030	24,010	13,920	1,510	102	71	81	980
CAL YR 1972:	TOTAL	22,891.11	MEAN	62.5	MAX	1,280	MIN	0	AC-FT	45,400		
WTR YR 1973:	TOTAL	39,219.73	MEAN	107	MAX	1,450	MIN	0	AC-FT	77,790		

RED RIVER BASIN

07369000 Bayou Lafourche near Crew Lake, La.

LOCATION.--Lat 32°29'55", long 91°55'05", in SW¼ sec.36, T.18 N., R.5 E., Ouachita-Richland Parish line, near center of span on downstream side of bridge on U. S. Highway 80, 1.1 miles upstream from Illinois Central Railroad bridge, and 2.5 miles west of town of Crew Lake.

DRAINAGE AREA.--361 sq mi (see REMARKS).

PERIOD OF RECORD.--October 1938 to current year. Prior to December 1938 monthly discharge only, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 37.08 ft above mean sea level (levels by Corps of Engineers). Prior to Aug. 10, 1944, nonrecording gage, Aug. 10, 1944, to June 5, 1952, water-stage recorder, and June 6 to September 30, 1952, nonrecording gage, all at same site at datum 19.00 ft higher. Since Oct. 1, 1957, auxiliary water-stage recorder 9.5 miles downstream at mean sea level datum.

AVERAGE DISCHARGE.--35 years, 1,488 cfs (1,078,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 22,800 cfs Mar. 19 (gage height, 27.48 ft); minimum, 60 cfs Oct. 16 (gage height, 1.58 ft).

Period of record: Maximum discharge, 26,800 cfs May 2, 1958; maximum gage height, 27.55 ft Feb. 14, 1966; maximum daily reverse flow not determined; no flow at times in August, September, and October 1952, result of temporary storage due to excavation of channel upstream.

A discharge of 17,000 cfs was measured Dec. 24, 1931 (from reports of Corps of Engineers, Vicksburg district).

REMARKS.--Records poor. Small diversions above station for irrigation. Interconnecting system of bayous and drainage ditches produces an interchange of flow under varying conditions; hence, the drainage limits were more or less arbitrarily determined. Boeuf River and Bayou Lafourche basins are connected by canal upstream. In extreme floods, considerable flow from the Bayou Bartholomew basin passes this station. Records of chemical analyses and water temperatures for the water year 1973 are published in Part 2 of this report.

COOPERATION.--Auxiliary gage-height record furnished by Corps of Engineers.

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	135	2,380	2,000	4,120	5,830	250	6,500	9,110	2,200	800	995	342
2	113	2,150	912	2,890	10,300	250	5,730	6,780	2,100	750	1,770	340
3	95	1,960	911	2,080	9,750	200	3,450	5,800	2,000	750	1,920	387
4	89	1,420	660	4,040	7,130	1,100	1,600	6,100	1,900	700	1,130	673
5	95	799	400	5,310	4,030	2,970	1,300	5,180	1,800	700	580	2,040
6	79	500	400	12,400	1,940	3,560	1,200	3,200	1,700	700	398	4,180
7	76	1,240	619	15,200	1,100	6,610	1,500	1,600	1,600	700	313	4,320
8	75	6,590	704	16,600	1,700	8,410	2,400	3,500	1,400	700	271	3,560
9	76	10,900	3,110	17,300	6,020	6,200	2,200	2,000	1,300	650	227	2,020
10	73	12,100	9,490	17,400	6,960	4,000	1,500	1,500	1,200	650	224	1,780
11	71	11,200	15,200	14,900	5,510	10,000	1,400	1,000	1,100	600	207	1,180
12	69	8,040	15,800	10,400	3,860	12,000	1,300	2,000	1,000	600	194	856
13	70	4,140	16,200	4,000	3,020	14,000	1,200	2,500	900	550	209	676
14	68	4,790	16,100	2,500	8,370	16,000	1,200	1,900	2,000	550	245	506
15	79	5,050	16,600	1,300	10,200	18,000	1,600	1,900	1,800	500	373	429
16	66	3,120	17,000	800	7,280	20,000	5,100	1,900	1,600	500	306	392
17	73	1,620	16,800	600	3,070	21,000	9,090	1,900	1,200	450	316	356
18	73	1,150	16,100	500	1,300	22,300	11,700	1,900	900	790	334	303
19	90	6,040	12,800	300	800	22,700	13,700	1,900	900	2,040	351	264
20	71	11,800	9,550	250	600	22,700	14,600	1,900	900	2,380	406	240
21	67	13,400	7,080	2,970	500	21,900	15,000	1,900	850	1,680	332	222
22	85	13,200	8,500	9,770	500	20,700	14,900	1,900	850	659	268	203
23	147	8,510	7,440	12,000	450	19,400	14,100	1,900	850	438	229	190
24	162	3,400	5,280	11,400	400	17,100	12,400	1,900	850	180	205	176
25	127	2,320	3,110	8,200	350	16,600	9,840	1,900	850	314	201	172
26	115	4,540	1,600	6,060	350	16,600	15,500	1,900	800	558	194	170
27	864	5,640	1,000	6,220	300	15,800	16,100	1,900	800	453	192	158
28	1,940	6,940	800	6,120	300	13,600	15,600	1,800	800	348	194	155
29	2,010	6,930	600	4,910	-----	10,500	14,000	1,800	800	313	192	168
30	2,070	3,990	600	3,340	-----	7,550	11,900	1,800	800	293	249	155
31	2,550	-----	2,910	1,900	-----	6,060	-----	1,800	-----	303	313	-----
TOTAL	11,773	165,859	210,276	205,780	101,920	378,060	227,610	84,070	37,750	21,599	13,338	26,613
MEAN	380	5,229	6,783	6,638	3,640	12,195	7,587	2,712	1,258	697	430	887
MAX	2,550	13,400	17,000	17,400	10,300	22,700	16,100	9,110	2,200	2,380	1,920	4,320
MIN	66	500	400	250	300	200	1,200	1,000	800	180	192	155
AC-FT	23,350	329,000	417,100	408,200	202,200	749,900	451,500	166,800	74,880	42,840	26,460	52,790
CAL YR 1972:	TOTAL	796,567	MEAN	2,176	MAX	19,700	MIN	66	AC-FT	1,580,000		
WTR YR 1973:	TOTAL	1,484,648	MEAN	4,068	MAX	22,700	MIN	66	AC-FT	2,945,000		

RED RIVER BASIN

63

07369370 Lake Providence at Lake Providence, La.

LOCATION.--Lat 32°50'40", long 91°13'25", in sec.13, T.21 N., R.12 E., East Carroll Parish, on upstream side of Baxter Bayou bridge on U. S. Highway 65, 3.0 miles northwest of village of Lake Providence.

DRAINAGE AREA.--18.7 sq mi.

PERIOD OF RECORD.--January 1967 to current year (elevations only).

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Louisiana Department of Public Works).

EXTREMES.--Current year: Maximum elevation, 93.48 ft Mar. 18; minimum, 89.05 ft Oct. 21.

Period of record: Maximum elevation, 93.57 ft Jan 5, 1972; minimum, 88.31 ft Dec. 5, 1969.

REMARKS.--Reservoir is used for recreation and is formed from an oxbow lake by a concrete dam on Tensas Bayou and a weir on Baxter Bayou. Crest of the spillway in the dam and the weir is 89.5 ft above mean sea level. Reservoir capacity is unknown.

ELEVATION, IN FEET, AT 0800, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89.34	89.64	90.17	90.81	91.44	90.45	92.15	92.40	90.83	89.90	89.76	89.57
2	89.32	89.72	90.15	90.75	91.63	90.49	92.04	92.32	90.80	89.89	89.75	89.57
3	89.29	89.73	90.11	90.77	91.57	90.46	91.93	92.28	90.73	89.88	89.72	89.58
4	89.28	89.74	90.10	90.90	91.49	90.45	91.81	92.18	90.67	89.86	89.70	89.63
5	89.27	89.73	90.08	90.88	91.41	90.43	91.70	92.10	90.62	89.88	89.68	89.78
6	89.26	89.72	90.05	91.28	91.34	90.40	91.63	92.01	90.56	89.89	89.67	89.84
7	89.25	89.80	90.02	91.40	91.26	90.59	91.70	92.03	90.49	90.08	89.66	89.84
8	89.24	89.87	90.00	92.00	91.25	90.61	91.74	92.04	90.44	90.08	89.65	89.83
9	89.22	89.86	90.11	92.02	91.21	90.61	91.69	91.97	90.38	90.05	89.65	89.83
10	89.21	89.85	90.33	91.93	91.14	90.62	91.61	91.90	90.33	90.03	89.63	89.82
11	89.20	89.84	90.88	91.83	91.08	90.90	91.55	91.83	90.28	90.03	89.62	89.80
12	89.19	89.82	90.94	91.72	91.01	91.01	91.49	91.92	90.25	90.00	89.61	89.78
13	89.17	89.89	91.04	91.62	90.98	91.00	91.44	91.92	90.20	89.98	89.60	89.77
14	89.16	90.01	91.09	91.52	91.15	90.96	91.39	91.86	90.26	89.95	89.59	89.75
15	89.15	90.00	91.56	91.48	91.14	91.08	91.35	91.78	90.31	89.93	89.70	89.73
16	89.15	89.97	91.65	91.35	91.09	92.39	91.60	91.70	90.27	89.91	89.70	89.72
17	89.14	89.95	91.58	91.26	91.01	93.36	91.82	91.64	90.23	89.89	89.69	89.70
18	89.12	89.95	91.49	91.19	90.95	93.47	92.54	91.56	90.20	89.87	89.69	89.68
19	89.10	90.00	91.42	91.15	90.89	93.35	93.15	91.48	90.16	89.86	89.68	89.65
20	89.07	90.01	91.35	91.09	90.84	93.19	93.12	91.44	90.13	89.85	89.67	89.64
21	89.07	89.98	91.43	91.30	90.78	93.02	92.98	91.40	90.13	89.84	89.65	89.63
22	89.08	89.96	91.46	91.65	90.73	92.84	92.82	91.35	90.10	89.83	89.63	89.62
23	89.28	89.94	91.40	91.61	90.69	92.67	92.69	91.27	90.08	89.80	89.62	89.62
24	89.26	89.92	91.32	91.53	90.64	92.54	92.58	91.25	90.05	89.79	89.61	89.61
25	89.25	89.98	91.23	91.44	90.60	93.07	93.06	91.20	90.02	89.77	89.60	89.60
26	89.23	90.01	91.15	91.46	90.56	93.00	93.10	91.17	89.99	89.75	89.59	89.60
27	89.44	90.00	91.07	91.43	90.52	92.83	92.97	91.15	89.96	89.74	89.57	89.59
28	89.52	90.15	90.99	91.38	90.48	92.68	92.82	91.08	89.94	89.72	89.56	89.58
29	89.54	90.23	90.94	91.30	-----	92.54	92.67	91.00	89.92	89.72	89.55	89.62
30	89.59	90.21	90.94	91.23	-----	92.40	92.53	90.94	89.91	89.74	89.59	89.61
31	89.64	-----	90.87	91.17	-----	92.29	-----	90.89	-----	89.77	89.58	-----
MAX	89.64	90.23	91.65	92.02	91.63	93.47	93.15	92.40	90.83	90.08	89.76	89.84
MIN	89.07	89.64	90.00	90.75	90.48	90.40	91.35	90.89	89.91	89.72	89.55	89.57

RED RIVER BASIN

07369500 Tensas River at Tondal, La.

LOCATION.--Lat 32°25'55", long 91°22'00", in NW¹/₄ sec.29, T.17 N., R.11 E., Madison Parish, near left bank on upstream side of bridge on U. S. Highway 80 at Tondal, 200 ft upstream from Illinois Central Railroad bridge, and 3 miles east of Waverly.

DRAINAGE AREA.--309 sq mi (see REMARKS).

PERIOD OF RECORD.--December 1935 to current year. Monthly discharge only for some periods, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 50.07 ft above mean sea level. Prior to July 11, 1944, nonrecording gage at site 1,000 ft upstream at same datum. July 11, 1944, to Sept. 14, 1954, nonrecording gage at same site and datum. Auxiliary water-stage recorder 8.5 miles downstream at datum 50.07 ft above mean sea level. Feb. 19, 1945, to Nov. 27, 1951, auxiliary nonrecording gage 9.5 miles downstream at datum 46.65 ft above mean sea level. Nov. 28, 1951, to Sept. 30, 1957, auxiliary nonrecording gage at present site at datum 0.31 ft lower. Oct. 1, 1957, to Nov. 8, 1962, auxiliary nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--37 years (1936-73), 313 cfs (226,800 acre-ft per year).

EXTREMES.--Current year: Maximum daily discharge, 2,750 cfs Mar. 17; maximum gage height, 22.92 ft Mar. 18; minimum daily discharge, 14 cfs Oct. 18, 21; minimum gage height, 6.19 ft Sept. 28.

Period of record: Maximum discharge, 4,610 cfs Nov. 19, 1948; maximum gage height, 24.78 ft Nov. 20, 1948; minimum daily discharge, 2.8 cfs Dec. 8, 1954, but may have been less during period of indefinite stage-discharge relation in October 1954. Maximum stage known, 34.02 ft May 15, 1927 (affected by overflow from Mississippi River).

REMARKS.--Records poor. Small diversions above station for irrigation. Interconnecting system of bayous and drainage ditches produces an interchange of flow under varying conditions; hence, the drainage limits were more or less arbitrarily determined. Records of chemical analyses and water temperatures for the water year 1973 are published in Part 2 of this report.

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	15	20	243	386	1,270	106	1,040	895	646	100	42	31
2	16	185	188	305	1,810	102	915	938	1,450	142	42	32
3	17	310	162	471	1,640	101	813	1,400	1,210	143	41	35
4	18	310	144	988	1,280	128	745	1,370	820	126	40	41
5	18	300	130	931	1,020	165	699	1,140	582	101	39	74
6	17	275	118	1,530	836	167	648	979	428	94	39	137
7	16	235	106	1,920	714	246	805	996	324	94	39	160
8	16	210	94	2,370	686	320	1,080	1,130	256	108	39	139
9	16	190	97	2,290	600	303	948	960	230	118	38	112
10	16	160	360	2,020	550	264	817	822	220	118	37	88
11	16	125	1,630	1,690	500	757	637	722	220	114	37	72
12	16	102	1,550	1,380	420	1,000	523	719	213	104	36	58
13	15	162	1,470	1,150	364	1,500	437	784	244	93	35	50
14	15	544	1,320	968	1,020	2,000	359	682	274	82	36	44
15	15	622	1,990	822	1,230	2,500	314	590	375	72	38	39
16	15	440	2,080	729	959	2,700	490	512	351	66	37	35
17	15	344	1,790	647	890	2,750	734	471	290	64	37	32
18	14	251	1,460	574	671	2,710	1,870	420	253	78	37	30
19	15	229	1,210	544	497	2,600	2,460	385	229	77	46	28
20	15	243	1,200	449	372	2,430	2,400	357	207	70	44	28
21	14	211	1,890	1,480	274	2,260	2,190	325	196	65	44	27
22	17	178	2,030	2,300	221	2,060	1,960	304	184	59	37	27
23	30	157	1,790	2,060	186	1,810	1,750	289	168	56	32	27
24	39	143	1,460	1,700	162	1,780	1,410	287	152	52	31	26
25	42	155	1,190	1,300	145	2,310	1,400	274	139	48	30	26
26	43	214	985	1,200	133	2,290	1,390	264	127	45	30	29
27	59	211	815	1,170	125	2,130	1,260	295	118	43	30	31
28	108	222	687	1,090	114	1,920	1,120	348	109	41	31	29
29	110	327	603	954	-----	1,680	1,020	333	100	41	31	28
30	70	314	509	794	-----	1,420	961	309	90	41	31	28
31	30	-----	454	677	-----	1,210	-----	284	-----	41	31	-----
TOTAL	878	7,389	29,755	36,889	18,689	43,719	33,195	19,584	10,205	2,496	1,137	1,543
MEAN	28.3	246	960	1,190	667	1,410	1,106	632	340	80.5	36.7	51.4
MAX	110	622	2,080	2,370	1,810	2,750	2,460	1,400	1,450	143	46	160
MIN	14	20	94	305	114	101	314	264	90	41	30	26
AC-FT	1,740	14,660	59,020	73,170	37,070	86,720	65,840	38,840	20,240	4,950	2,260	3,060
CAL YR 1972:	TOTAL	123,923	MEAN	339	MAX	3,100	MIN	7.0	AC-FT	245,800		
WTR YR 1973:	TOTAL	205,479	MEAN	563	MAX	2,750	MIN	14	AC-FT	407,600		

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LOCATION.--Lat 32°59'35", long 91°15'45", in SW¼SE¼ sec.8, T.23 N., R.12 E., East Carroll-West Carroll Parish line, near center of channel on downstream side of bridge on State Highway 585, 0.8 mile south of Arkansas-Louisiana State line, and 3.0 miles east of Kilbourne.

PERIOD OF RECORD.--October 1957 to September 1968. October 1968 to current year (annual maximum gage height and discharge below 200 cfs only).

AVERAGE DISCHARGE.--11 years (1958-68), 508 cfs (368,000 acre-ft per year).

EXTREMES.--Current year: Maximum gage height, 26.73 ft Mar. 17; minimum discharge, 76 cfs Oct. 25, 26 (gage height, 1.81 ft).
Period of record: Maximum gage height, 26.73 ft Mar. 17, 1973, present datum; no flow June 11, 1963, result of pumping for irrigation.
1957-68: Maximum discharge, 4,740 cfs May 5, 1958.

REMARKS.--Records fair. Large diversions above station for irrigation. Interconnecting system of bayous and drainage ditches produces and interchange of flow under varying conditions; hence, the drainage limits were more or less arbitrarily determined. Records of chemical analyses and water temperatures for the water year 1973 are published in Part 2 of this report.

[illegible]

RED RIVER BASIN

07370000 Bayou Macon near Delhi, La.

LOCATION.--Lat 32°27'25", long 91°28'30", in E sec.18, T.17 N., R.10 E., Richland-Madison Parish line, near right bank on downstream side of bridge on U.S. Highway 80, 0.2 mile upstream from Illinois Central Railroad bridge, and 1 mile east of Delhi.

DRAINAGE AREA.--782 sq mi (see REMARKS).

PERIOD OF RECORD.--October 1935 to current year. Monthly discharge only for some periods, published in WSP 1311. Daily gage heights as follows: 1885-99 in reports of U.S. Weather Bureau; September 1925 to December 1931 in files of Corps of Engineers, Vicksburg district; since January 1932 in reports of Corps of Engineers, Vicksburg district.

GAGE.--Water-stage recorder. Datum of gage is 50.05 ft above mean sea level (levels by Corps of Engineers). Prior to Mar. 14, 1949, nonrecording gage; Mar. 14, 1949, to Oct. 1, 1963, water-stage recorder; all gages within 2,000 ft downstream at same datum. Auxiliary water-stage recorder 7.7 miles downstream at datum 46.05 ft above mean sea level. Feb. 16, 1945, to Oct. 26, 1962, auxiliary nonrecording gage; Oct. 27, 1962, to Nov. 10, 1964, auxiliary water-stage recorder; and Nov. 11, 1964, to May 10, 1965, auxiliary nonrecording gage at site 0.2 mile upstream. May 11, 1965, to Mar. 9, 1972, nonrecording gage at present site and datum. Prior to Oct. 1, 1964, at datum 2.00 ft lower.

AVERAGE DISCHARGE.--38 years, 926 cfs (670,900 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 8,780 cfs Mar. 17; maximum gage height, 22.78 ft Mar. 18; minimum discharge, 125 cfs Oct. 21 (gage height, 5.89 ft).

Period of record: Maximum discharge, 9,050 cfs Feb. 13, 1966; maximum gage height, 26.00 ft May 6, 7, 1958; no flow May 25, 26, 28, June 1, 1963, result of temporary dam.

Flood of March 1882 reached a stage of 37.5 ft, present site and datum, from records of U.S. Weather Bureau (affected by over-flow from Mississippi River).

REMARKS.--Records fair. Large diversions above station for irrigation. Interconnecting system of bayous and drainage ditches produces an interchange of flow under varying conditions; hence, the drainage limits were more or less arbitrarily determined. Records of chemical analyses and water temperatures for the water year 1973 are published in Part 2 of this report.

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	241	391	2,690	1,980	3,420	957	4,480	4,200	1,510	433	282	227
2	233	395	2,490	1,770	3,960	936	3,930	4,200	1,310	617	319	218
3	219	429	2,250	1,890	3,610	929	3,560	4,470	1,180	529	350	258
4	210	377	1,910	2,340	3,200	880	3,350	4,250	1,080	418	410	407
5	204	308	1,610	2,400	2,970	887	3,130	4,020	932	355	507	815
6	198	251	1,440	3,450	2,950	1,040	2,930	3,780	886	377	588	962
7	195	263	1,300	4,520	2,600	1,770	2,990	3,750	760	543	609	790
8	191	1,070	1,180	5,580	2,450	2,150	3,140	3,930	638	604	591	609
9	191	1,790	1,350	5,900	2,400	2,060	2,980	3,580	631	523	561	463
10	188	1,820	2,410	5,380	2,350	1,940	2,740	3,230	728	475	509	401
11	185	1,780	3,990	4,680	2,200	2,680	2,580	2,890	732	433	457	474
12	185	1,790	4,750	4,010	2,050	3,860	2,450	3,010	830	647	433	442
13	185	2,080	4,640	3,510	2,000	3,750	2,370	3,200	679	857	420	421
14	183	2,480	4,330	3,200	2,600	3,520	2,350	2,740	848	702	398	405
15	177	2,530	5,100	3,000	3,200	3,690	2,390	2,300	1,060	519	365	382
16	161	2,450	5,590	2,780	3,200	6,880	2,600	2,050	1,010	434	358	360
17	156	2,290	5,310	2,490	2,850	8,600	3,210	1,800	711	456	393	364
18	153	2,070	4,790	2,220	2,600	8,640	4,560	1,650	511	475	355	349
19	153	2,100	4,250	1,820	2,350	8,060	6,610	1,550	426	450	306	315
20	138	2,420	4,030	1,510	2,150	7,680	6,600	1,450	396	581	281	297
21	133	2,540	4,240	2,450	1,950	7,430	6,080	1,400	603	559	264	283
22	155	2,570	4,490	3,340	1,770	7,140	5,540	1,300	520	470	244	290
23	196	2,550	4,090	3,220	1,620	6,820	4,940	1,250	457	420	217	280
24	200	2,520	3,700	2,800	1,500	6,800	4,360	1,230	411	368	181	252
25	183	2,520	3,410	2,730	1,400	7,500	5,040	1,160	371	341	187	236
26	170	2,580	3,160	3,040	1,280	7,270	5,460	1,130	350	342	181	225
27	270	2,570	3,020	3,150	1,170	6,870	5,340	1,100	334	318	171	217
28	464	2,610	2,980	3,150	1,060	6,500	5,000	1,130	321	281	169	211
29	448	2,880	2,610	2,970	-----	6,070	4,600	1,200	303	251	233	213
30	357	2,920	2,430	2,690	-----	5,590	4,250	1,260	318	238	252	207
31	371	-----	2,240	2,520	-----	4,910	-----	1,240	-----	246	241	-----
TOTAL	6,693	55,344	101,780	96,490	66,860	143,809	119,560	75,450	20,846	14,262	10,832	11,373
MEAN	216	1,845	3,283	3,113	2,388	4,639	3,985	2,434	695	460	349	379
MAX	464	2,920	5,590	5,900	3,960	8,640	6,610	4,470	1,510	857	609	962
MIN	133	251	1,180	1,510	1,060	880	2,350	1,100	303	238	169	207
AC-FT	13,280	109,800	201,900	191,400	132,600	285,200	237,100	149,700	41,350	28,290	21,490	22,560
CAL YR 1972:	TOTAL	377,468	MEAN	1,031	MAX	8,500	MIN	99	AC-FT	748,700		
WTR YR 1973:	TOTAL	723,299	MEAN	1,982	MAX	8,640	MIN	133	AC-FT	1,435,000		

RED RIVER BASIN

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07371500 Dugdemona River near Jonesboro, La.

LOCATION.--Lat 32°12'25", long 92°48'05", in SW $\frac{1}{4}$ sec.8, T.14 N., R.4 W., Bienville-Jackson Parish line, on left bank just downstream from bridge on State Highway 4, 200 ft downstream from Brush Creek, 1.5 miles downstream from McDonald Creek, and 5.4 miles southwest of Jackson Parish courthouse in Jonesboro.

DRAINAGE AREA.--355 sq mi.

PERIOD OF RECORD.--October 1938 to September 1957. November 1957 to current year (annual maximum and gage height only).

GAGE.--Water-stage recorder. Datum of gage is 116.53 ft above mean sea level. Prior to Nov. 29, 1938, nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum discharge, 6,430 cfs Jan. 8 (gage height, 14.81 ft); minimum gage height, 3.65 ft Oct. 21.
Period of record: Maximum discharge, 30,600 cfs Jan. 1, 1945 (gage height, 19.87 ft); minimum gage height, 2.67 ft Sept. 26, 1955.
1938-57: Minimum observed, 0.4 cfs Aug. 31, 1954 (discharge measurement), but may have been less in September 1954.

REMARKS.--Water used by paper mill at Hodge is pumped from wells and discharged into stream about 7 miles above station. Part of effluent is discharged continually whenever mill is operating, but that containing waste material is stored in a reservoir and released whenever river flow is sufficient to materially dilute it.

REVISIONS.--WRD 1971: Drainage area.

GAGE HEIGHT, IN FEET, AT 0800, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.65	10.48	9.91	10.60	11.26	7.55	10.83	10.91	4.49	4.20	4.30	3.75
2	7.48	10.43	9.26	11.08	11.89	7.44	10.47	10.35	4.29	4.20	4.26	3.74
3	5.94	10.28	8.66	11.27	12.22	7.56	10.16	10.28	4.16	4.11	4.25	4.24
4	5.14	9.56	8.07	11.29	12.21	8.06	9.76	10.08	4.14	4.03	4.43	4.54
5	4.61	8.65	7.46	11.21	11.87	8.54	9.27	9.82	4.35	4.05	4.17	4.25
6	4.32	7.53	7.10	11.88	11.52	8.90	8.99	9.65	4.47	4.59	4.00	5.40
7	4.12	6.84	6.84	13.03	10.92	9.49	8.95	9.54	4.76	4.69	3.94	7.15
8	3.93	8.47	6.76	14.58	10.38	10.15	9.52	10.74	5.54	7.02	3.89	9.54
9	3.91	9.26	7.26	14.70	10.26	10.52	10.00	11.45	5.14	7.06	3.74	9.64
10	3.94	9.47	9.31	14.14	10.48	10.69	10.50	11.49	4.64	5.95	3.75	9.43
11	3.93	9.58	11.13	13.31	10.70	11.09	10.57	11.30	4.35	5.11	3.77	8.89
12	3.90	9.01	12.60	12.57	10.80	11.47	10.33	10.71	4.26	4.61	3.76	8.40
13	3.86	8.22	12.90	11.94	10.55	11.80	9.89	9.76	4.22	4.31	3.78	7.68
14	3.85	8.98	12.81	11.62	10.38	11.86	9.20	9.27	4.26	4.12	3.79	6.35
15	3.85	9.56	13.28	11.18	11.13	11.83	8.67	9.45	5.46	4.00	3.88	5.55
16	3.80	9.81	13.46	10.67	11.77	12.19	8.49	9.10	6.37	3.93	3.95	5.14
17	3.73	10.02	13.27	10.24	11.75	13.70	9.76	8.09	5.82	4.00	3.89	4.84
18	3.70	9.73	12.88	9.84	11.24	14.64	10.98	6.94	5.37	3.86	4.03	4.67
19	3.66	9.48	12.36	9.67	10.57	13.90	11.76	6.27	4.94	3.83	4.08	4.51
20	3.68	9.88	11.85	9.60	9.98	12.93	11.82	5.86	4.96	3.82	4.37	4.39
21	3.65	10.32	11.45	9.63	9.52	12.17	11.54	5.65	8.45	3.80	4.31	4.32
22	3.69	10.55	11.18	10.61	9.13	11.56	11.10	5.88	9.96	4.03	4.22	4.25
23	4.61	10.52	11.47	11.82	8.80	11.00	10.45	5.71	10.36	3.96	3.97	4.20
24	4.89	9.96	11.50	12.57	8.55	10.58	9.96	5.41	9.25	4.21	3.88	4.15
25	5.37	9.37	11.22	12.46	8.36	11.03	11.93	5.15	7.24	4.50	3.84	4.25
26	5.75	9.34	10.86	12.00	8.19	11.91	13.46	4.98	5.65	4.48	3.78	4.34
27	6.99	9.65	10.33	11.70	7.99	12.41	13.81	4.92	4.86	4.17	3.80	4.21
28	9.06	10.07	9.74	11.55	7.77	12.40	13.07	5.14	4.50	4.08	3.81	4.26
29	9.46	10.46	9.24	11.47	-----	12.17	12.28	5.22	4.28	4.02	3.81	4.97
30	9.74	10.37	8.89	11.45	-----	11.68	11.56	5.02	4.19	3.99	3.80	5.55
31	10.16	-----	9.79	11.27	-----	11.19	-----	4.75	-----	4.08	3.77	-----
MAX	10.16	10.55	13.46	14.70	12.22	14.64	13.81	11.49	10.36	7.06	4.43	9.64
MIN	3.65	6.84	6.76	9.60	7.77	7.44	8.49	4.75	4.14	3.80	3.74	3.74

RED RIVER BASIN

07372000 Dugdemona River near Winnfield, La.

LOCATION.--Lat 31°58'30", long 92°39'10", on line between secs.34 and 35, T.12 N., R.3 W., Winn Parish, on right bank just downstream from bridge on U. S. Highway 167, 300 ft upstream from Chicago, Rock Island and Pacific Railroad Co. bridge, 2.4 miles downstream from Kyiaies Creek, and 3.5 miles north of Winnfield.

DRAINAGE AREA.--654 sq mi.

PERIOD OF RECORD.--April 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 81.14 ft above mean sea level (Louisiana Geodetic Survey bench mark). Prior to Dec. 19, 1950, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--34 years, 686 cfs (497,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 8,020 cfs Jan. 10 (gage height, 18.27 ft); minimum, 19 cfs Sept. 3 (gage height, 2.04 ft).
Period of record: Maximum discharge, 27,100 cfs May 19, 1953 (gage height, 23.78 ft); no flow at times in 1947, 1954, 1956-57, (result of temporary regulation).

REMARKS.--Records good. Water used by paper mill at Hodge is pumped from wells and discharged into stream about 30 miles above station. Part of effluent is discharged continually whenever mill is operating, but that containing waste material is stored in a reservoir and released whenever river flow is sufficient to materially dilute it. Records of chemical analyses and water temperatures for the water year 1973 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1341: Drainage area. WSP 1391: 1939-41.

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	79	498	613	1,120	2,290	411	2,100	3,210	98	61	53	20
2	133	499	596	1,150	2,490	394	1,920	3,460	81	52	64	20
3	190	510	619	1,180	2,420	387	1,670	6,050	71	47	64	19
4	219	524	642	1,230	2,350	397	1,410	4,860	65	44	52	20
5	191	540	639	1,310	2,250	454	1,190	3,390	64	42	44	32
6	124	560	597	1,660	2,110	528	1,020	2,440	73	38	40	115
7	77	608	514	2,250	2,010	913	931	2,000	91	40	40	305
8	56	695	416	3,480	1,950	988	913	2,080	95	47	42	688
9	43	620	405	5,530	1,940	944	886	2,140	89	72	39	830
10	35	523	702	7,710	1,820	986	888	2,130	92	174	41	882
11	29	447	1,240	7,680	1,630	1,410	853	1,980	98	262	36	986
12	27	414	1,440	6,380	1,410	1,670	810	1,700	87	243	28	1,060
13	26	531	1,500	4,800	1,230	1,690	789	1,480	73	148	23	948
14	25	868	1,620	3,650	1,220	1,730	790	1,330	66	79	21	754
15	25	857	2,210	2,930	1,230	1,800	794	1,190	83	55	23	524
16	24	767	3,350	2,360	1,200	2,320	857	1,030	162	43	25	336
17	23	678	4,410	1,940	1,160	3,230	1,010	834	200	35	31	190
18	22	602	4,610	1,620	1,100	3,900	1,520	629	201	30	51	112
19	25	607	4,270	1,380	1,100	5,190	1,850	497	185	27	49	80
20	25	644	3,830	1,230	1,190	6,380	1,900	384	145	27	44	68
21	36	658	3,830	1,330	1,240	5,420	1,910	254	107	25	37	59
22	37	673	3,710	1,650	1,190	4,020	1,880	175	98	24	37	52
23	42	664	3,350	1,760	1,070	3,100	1,780	143	184	24	37	47
24	50	647	2,870	1,770	925	2,800	1,650	146	345	31	37	48
25	49	671	2,390	1,700	767	3,000	1,760	138	463	36	35	54
26	56	742	1,960	1,660	619	2,790	2,310	124	553	36	29	60
27	145	765	1,660	1,870	515	2,450	3,450	121	569	52	25	52
28	239	763	1,460	2,310	451	2,200	4,570	137	419	60	23	59
29	263	731	1,300	2,490	-----	2,000	4,920	143	175	52	21	59
30	343	673	1,190	2,310	-----	2,010	4,080	146	80	43	20	55
31	494	-----	1,160	2,050	-----	2,110	-----	126	-----	41	20	-----
TOTAL	3,152	18,979	59,103	81,490	40,877	67,622	52,411	44,467	5,112	1,990	1,131	8,534
MEAN	102	633	1,907	2,629	1,460	2,181	1,747	1,434	170	64.2	36.5	284
MAX	494	868	4,610	7,710	2,490	6,380	4,920	6,050	569	262	64	1,060
MIN	22	414	405	1,120	451	387	789	121	64	24	20	19
AC-FT	6,250	37,640	117,200	161,600	81,080	134,100	104,000	88,200	10,140	3,950	2,240	16,930
CAL YR 1972	TOTAL	217,061	MEAN	593	MAX	7,870	MIN	12	AC-FT	430,500		
WTR YR 1973	TOTAL	384,868	MEAN	1,054	MAX	7,710	MIN	19	AC-FT	763,400		

RED RIVER BASIN

07372200 Little River near Rochelle, La.

LOCATION.--Lat 31°45'15", long 92°20'40", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.14, T.9 N., R.1 E., La Salle-Grant Parish line, near right bank on downstream side of pier of bridge on State Highway 500, 700 ft upstream from Louisiana Midland Railway Co. bridge, 1.1 miles northeast of Zenoria, and 3 miles southeast of Rochelle.

DRAINAGE AREA.--1,899 sq mi (revised).

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 24.79 ft above mean sea level (Corps of Engineers bench mark). Auxiliary water-stage recorder 5 miles upstream at same datum. Prior to May 9, 1960, auxiliary nonrecording gage 5.1 miles upstream at same datum.

AVERAGE DISCHARGE.--16 years, 1,781 cfs (12.74 inches per year, 1,290,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 23,300 cfs Mar. 18 (gage height, 36.08 ft); minimum discharge, 24 cfs Oct. 21 (gage height, 5.32 ft).

Period of record: Maximum discharge, 51,900 cfs Apr. 11, 1968 (gage height, 39.88 ft); minimum daily, 14 cfs Oct. 20-29, 1967; minimum gage height, 5.10 ft Oct. 27, 28, 29, 1967.

REMARKS.--Records good except for period June 16 to July 28 which are poor. Natural flow is supplemented by effluent from operation of several oilfields above station. Records of water temperatures for the water year 1973 are published in Part 2 of this report.

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	46	601	1,040	3,470	5,240	3,300	7,980	9,630	400	550	374	85
2	62	695	995	3,160	6,230	3,210	7,350	10,000	340	400	685	117
3	74	715	919	3,010	6,970	3,140	6,860	10,700	280	280	485	99
4	101	707	857	3,150	7,300	3,110	6,480	14,700	240	210	380	81
5	147	688	832	3,310	7,340	3,080	6,270	18,500	220	180	328	119
6	200	668	832	4,010	7,180	3,140	6,200	17,200	200	160	271	487
7	227	695	835	4,750	6,850	3,860	6,630	15,100	240	140	223	1,100
8	209	745	821	5,430	6,440	4,590	7,050	13,200	270	130	191	2,210
9	166	810	802	6,050	6,120	5,130	7,170	12,100	295	160	178	2,540
10	124	869	911	6,650	5,900	5,320	7,170	10,800	310	400	162	2,320
11	90	837	1,740	7,340	5,670	6,130	7,140	9,570	320	900	154	2,220
12	69	742	2,310	8,520	5,420	6,940	7,100	8,000	320	800	135	2,350
13	55	719	2,600	9,910	5,220	7,320	7,010	6,000	290	600	115	2,140
14	45	1,070	2,810	10,500	5,420	7,720	6,920	4,500	250	450	97	1,900
15	38	1,470	3,490	10,100	5,650	8,120	6,900	3,500	220	300	82	1,650
16	33	1,640	4,180	9,190	5,590	10,600	7,480	2,500	300	200	75	1,410
17	31	1,620	4,550	8,180	5,350	15,700	8,240	1,800	500	165	75	1,130
18	28	1,470	4,790	7,270	5,110	22,100	9,450	1,400	650	150	71	821
19	26	1,300	5,170	6,350	4,810	21,500	10,300	1,000	600	135	102	576
20	25	1,150	5,760	5,310	4,450	17,000	11,100	800	500	125	272	415
21	24	1,060	6,850	5,170	4,110	13,000	12,000	700	350	115	309	312
22	58	1,010	7,610	5,590	3,900	10,800	11,900	600	250	110	264	243
23	188	964	8,200	5,540	3,780	9,760	11,300	500	400	105	196	195
24	232	925	8,530	5,410	3,710	9,760	10,800	450	800	100	142	165
25	180	899	8,560	5,260	3,660	11,100	8,130	400	1,400	100	107	143
26	143	879	8,250	5,140	3,600	12,200	7,410	370	1,900	110	88	127
27	230	903	7,650	5,080	3,500	13,800	7,090	360	1,800	110	83	120
28	336	967	6,980	5,060	3,400	13,800	7,300	350	1,500	130	126	118
29	419	1,000	6,140	4,960	-----	12,000	8,000	350	1,100	177	148	120
30	505	1,030	5,210	4,860	-----	10,300	9,040	440	800	226	144	117
31	535	-----	4,120	4,760	-----	8,970	-----	500	-----	256	115	-----
TOTAL	4,646	28,848	124,344	182,490	147,920	286,500	243,770	176,020	17,045	7,974	6,177	25,430
MEAN	150	962	4,011	5,887	5,283	9,242	8,126	5,678	568	257	199	848
MAX	535	1,640	8,560	10,500	7,340	22,100	12,000	18,500	1,900	900	685	2,540
MIN	24	601	802	3,010	3,400	3,080	6,200	350	200	100	71	81
CFSM	.08	.51	2.11	3.10	2.78	4.87	4.28	2.99	.30	.14	.10	.45
IN.	.09	.57	2.44	3.57	2.90	5.61	4.78	3.45	.33	.16	.12	.50
AC-FT	9,220	57,220	246,600	362,000	293,400	568,300	483,500	349,100	33,810	15,820	12,250	50,440
CAL YR 1972 TOTAL	557,235			MEAN 1,523		MAX 16,700	MIN 21	CFSM .80	IN 10.92	AC-FT 1,105,000		
WTR YR 1973 TOTAL	1,251,164			MEAN 3,428		MAX 22,100	MIN 24	CFSM 1.81	IN 24.51	AC-FT 2,482,000		

NOTE.--Indefinite stage-discharge relation June 16 to July 28.

RED RIVER BASIN

07373000 Big Creek at Pollock, La.
(Hydrologic bench-mark station)

LOCATION.--Lat 31°32'10", long 92°24'30", in SW¼SE¼ sec.31, T.7 N., R.1 E., Grant Parish, near right bank on downstream side of bridge on U. S. Highway 165, 0.5 mile upstream from Sugar Branch, 0.6 mile upstream from Missouri Pacific Railroad Co. bridge, 0.8 mile upstream from water-supply diversion dam, 0.8 mile north of Pollock, and 1.3 miles downstream from Dyson Creek.

DRAINAGE AREA.--51 sq mi.

PERIOD OF RECORD.--January 1942 to current year.

GAGE.--Duplex water-stage recorder (rain gage, water stage, and water temperature combination), concrete control since July 16, 1964. Datum of gage is 76.69 ft above mean sea level. Prior to Feb. 25, 1942, nonrecording gage and Feb. 25, 1942, to June 21, 1955, water-stage recorder, at site 0.3 mile downstream at same datum, June 21, 1955, to May 18, 1964, water-stage recorder at present site and datum.

AVERAGE DISCHARGE.--31 years, 58.0 cfs (15.44 inches per year, 42,020 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 3,520 cfs Mar. 16 (gage height, 12.23 ft); minimum, 8.2 cfs Oct. 19 (gage height, 2.77 ft).
Period of record: Maximum discharge, 23,500 cfs Apr. 29, 1953 (gage height, 18.03 ft, 16.90 ft, site then in use); minimum, 3.7 cfs Sept. 29, 1956 (gage height, 1.08 ft).

REMARKS.--Records good. Supplementary recording rain gage 3.8 miles northwest of gaging station since June 26, 1964. Records of chemical analyses and suspended-sediment loads for the water year 1973 are published in Part 2 of this report.

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	14	19	16	43	581	36	62	52	33	40	58	22
2	12	18	16	53	163	37	57	285	32	33	74	20
3	11	16	16	67	74	36	54	469	31	29	37	21
4	10	16	16	69	59	71	50	117	31	33	29	39
5	11	21	16	57	52	57	47	79	85	57	26	159
6	10	15	18	112	48	71	53	70	57	128	25	415
7	9.9	35	16	194	46	162	401	654	37	60	27	186
8	9.6	24	15	296	71	114	144	524	34	44	26	451
9	9.3	18	23	87	125	143	88	112	33	36	26	95
10	9.0	15	99	64	70	123	70	83	32	31	23	56
11	8.8	14	109	59	54	323	59	69	32	35	22	48
12	9.0	14	46	54	48	119	54	70	40	39	22	46
13	9.0	24	58	52	130	74	50	69	45	29	22	42
14	8.8	38	74	48	403	66	48	57	90	27	21	37
15	9.0	21	546	44	104	76	56	52	95	25	22	33
16	8.8	16	93	41	69	2,200	850	47	52	25	21	30
17	8.5	15	54	39	71	919	660	46	50	25	20	29
18	8.8	31	44	37	52	131	680	44	57	25	21	27
19	10	63	38	40	49	98	420	43	40	23	22	26
20	9.9	31	199	38	46	82	165	41	45	25	20	25
21	9.9	23	279	773	45	64	90	40	52	27	19	25
22	95	19	219	267	42	57	76	38	39	30	18	25
23	77	18	80	76	43	57	70	37	35	144	17	24
24	25	17	56	58	41	719	67	40	31	40	16	24
25	17	25	46	50	40	1,100	85	41	30	34	16	25
26	17	27	41	77	39	167	119	39	29	36	16	25
27	74	20	36	63	38	103	83	40	27	48	30	24
28	36	20	35	73	37	88	62	43	28	31	60	23
29	22	20	34	56	-----	82	54	36	46	27	38	26
30	24	17	38	45	-----	74	50	34	88	25	28	25
31	25	-----	57	43	-----	71	-----	34	-----	25	25	-----
TOTAL	618.3	670	2,433	3,075	2,640	7,520	4,824	3,405	1,356	1,236	847	2,053
MEAN	19.9	22.3	78.5	99.2	94.3	243	161	110	45.2	39.9	27.3	68.4
MAX	95	63	546	773	581	2,200	850	654	95	144	74	451
MIN	8.5	14	15	37	37	36	3.16	34	27	23	16	20
CFSM	.39	.44	1.54	1.94	1.85	4.76	3.16	2.16	.89	.78	.54	1.34
IN.	.45	.49	1.77	2.24	1.93	5.48	3.52	2.48	.99	.90	.62	1.50
AC-FT	1,230	1,330	4,830	6,100	5,240	14,920	9,570	6,750	2,690	2,450	1,680	4,070
(†)	5.96	3.95	7.88	6.06	4.10	10.87	11.38	5.82	3.76	2.38	1.37	5.39
(‡)	5.33	3.60	8.09	10.42	4.07	11.64	9.41	6.48	4.70	3.79	4.03	7.62

CAL YR 1972:	TOTAL	13,427.1	MEAN	36.8	MAX	546	MIN	7.0	CFSM	.72	IN.	9.79	AC-FT	26,630
WTR YR 1973:	TOTAL	30,677.3	MEAN	84.0	MAX	2,200	MIN	8.5	CFSM	1.65	IN.	22.37	AC-FT	60,850

PEAK DISCHARGE (BASE, 650 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	0700	8.14	843	3-25	0200	10.49	1,680
1-21	1430	10.10	1,430	4-16	unknown	unknown	about 1,500
2- 1	1030	8.15	845	5- 7	1800	9.55	1,190
3-16	1100	12.23	3,520				

† Precipitation, in inches, during month at rain gage at station. Total for calendar year 1972, 50.12 inches; total for water year 1973, 68.92 inches.

‡ Precipitation, in inches, during month at rain gage upstream. Total for calendar year 1972, 46.34 inches; total for water year 1973, 79.18 inches.

RED RIVER BASIN

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07373278 Lake St. John near Waterproof, La.

LOCATION.--Lat 31°42'00", long 91°27'30", in lot 47, T.8 N., R.10 E., Concordia Parish, at private fishing pier, 8.5 miles southwest of Waterproof.

DRAINAGE AREA.--14.8 sq mi.

PERIOD OF RECORD.--January 1967 to current year (gage height only).

GAGE.--Water-stage recorder. Datum of gage is 50.00 ft above mean sea level.

EXTREMES.--Current year: Maximum gage height, 8.17 ft May 13; minimum, 2.77 ft Oct. 21.

Period of record: Maximum gage height, 8.17 ft May 13, 1973; minimum, 1.95 ft Nov. 29, 1967.

REMARKS.--Crest of dam 10.0 ft. Drawdown structure consists of two 48-inch pipes with stoplog arrangement that can be varied from -2.1 ft (invert of pipes) to 3.0 ft. Capacity not determined.

GAGE HEIGHT, IN FEET, AT 0800, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.15	3.18	3.41	5.11	5.67	5.41	6.20	7.56	7.20	--	4.43	3.81
2	3.13	3.39	3.40	5.12	5.76	5.40	6.17	7.56	7.15	--	4.44	3.78
3	3.11	3.43	3.40	5.16	5.78	5.39	6.15	7.84	7.10	--	4.39	3.85
4	3.10	3.43	3.40	5.23	5.79	5.47	6.12	7.86	7.03	--	4.35	3.86
5	3.09	3.42	3.40	5.25	5.78	5.48	6.09	7.84	6.96	--	4.33	3.95
6	3.07	3.41	3.55	5.31	5.76	5.46	6.05	7.78	6.92	--	4.29	4.15
7	3.06	3.48	3.54	5.31	5.74	5.48	6.31	7.85	6.86	--	4.26	4.18
8	3.03	3.50	3.53	5.44	5.76	5.46	6.40	8.04	6.79	--	4.23	4.18
9	3.02	3.49	3.58	5.46	5.83	5.46	6.43	8.04	6.73	--	4.20	4.17
10	3.00	3.47	3.63	5.44	5.80	5.42	6.42	7.99	6.66	--	4.17	4.15
11	2.97	3.46	3.75	5.43	5.77	5.46	6.40	7.93	6.59	--	4.14	4.14
12	2.97	3.44	3.76	5.40	5.74	5.45	6.38	8.08	6.51	--	4.11	4.28
13	2.95	3.48	3.88	5.37	5.71	5.42	6.34	8.16	6.43	--	4.08	4.28
14	2.93	3.49	3.89	5.35	5.84	5.40	6.31	8.13	6.36	--	4.05	4.26
15	2.92	3.48	4.05	5.33	5.85	5.39	6.27	8.08	6.30	--	4.02	4.23
16	2.90	3.44	4.08	5.30	5.84	5.64	6.48	8.00	6.24	--	4.00	4.20
17	2.88	3.43	4.08	5.28	5.80	5.75	6.89	7.92	6.17	--	4.03	4.17
18	2.87	3.42	4.08	5.27	5.75	5.76	7.55	7.85	6.11	--	4.01	4.14
19	2.87	3.43	4.07	5.25	5.72	5.76	7.74	7.75	6.04	--	3.99	4.10
20	2.81	3.42	4.12	5.23	5.68	5.75	7.81	7.68	5.97	--	3.96	4.07
21	2.78	3.40	4.70	5.44	5.65	5.72	7.82	7.61	5.95	--	3.94	4.05
22	2.80	3.39	4.90	5.51	5.61	5.68	7.80	7.54	5.89	--	3.90	4.04
23	3.11	3.37	4.98	5.53	5.58	5.64	7.74	7.47	5.83	--	3.87	4.02
24	3.11	3.36	5.03	5.53	5.55	5.65	7.69	7.45	5.76	--	3.85	4.00
25	3.08	3.43	5.06	5.51	5.52	6.20	7.73	7.38	5.70	4.48	3.83	3.97
26	3.06	3.42	5.08	5.52	5.49	6.26	7.80	7.33	5.64	4.49	3.80	3.96
27	3.19	3.41	5.08	5.50	5.47	6.27	7.82	7.25	5.58	4.45	3.72	3.94
28	3.19	3.45	5.07	5.51	5.44	6.28	7.77	7.35	--	4.42	3.82	3.92
29	3.19	3.44	5.05	5.48	-----	6.27	7.70	7.30	--	4.42	3.88	3.93
30	3.19	3.42	5.05	5.42	-----	6.26	7.63	7.23	--	4.43	3.86	3.93
31	3.18	-----	5.12	5.40	-----	6.23	-----	7.16	-----	4.39	3.83	-----
MAX	3.19	3.50	5.12	5.53	5.85	6.28	7.82	8.16	7.20	--	4.44	4.28
MIN	2.78	3.18	3.40	5.11	5.44	5.39	6.05	7.16	--	4.39	3.72	3.78

RED RIVER BASIN

07373280 Lake Concordia near Ferriday, La.

LOCATION.--Lat 31°40'25", long 91°30'05", in lot 33, T.8 N., R.9 E., Concordia Parish, at Louisiana Wildlife and Fisheries Commission pier, 3.5 miles northeast of Ferriday.

DRAINAGE AREA.--8.91 sq mi.

PERIOD OF RECORD.--January 1967 to current year (gage height only).

GAGE.--Water-stage recorder. Datum of gage is 29.00 ft above mean sea level.

EXTREMES.--Current year: Maximum gage height, 26.33 ft May 14; minimum, 20.38 ft Oct. 21.
Period of record: Maximum gage height, 26.33 ft May 14, 1973; minimum, 19.87 ft Dec. 9, 1967.

REMARKS.--Elevation of dam and capacity not determined. Drawdown structure consists of one 48-inch pipe with stoplog that can be varied from 16.3 ft to 26.3 ft. Invert of pipe is at 17.0 ft. Area of lake is 865 acres at 21 ft.

GAGE HEIGHT, IN FEET, AT 0800, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.67	20.77	21.05	22.18	22.85	22.71	23.47	--	25.48	23.57	22.25	21.45
2	20.65	20.99	21.04	22.21	22.91	22.72	23.44	--	25.41	23.50	22.27	21.44
3	20.63	20.99	21.04	22.24	22.93	22.70	23.42	--	25.36	23.45	22.23	21.47
4	20.62	20.98	21.05	22.25	22.94	22.79	23.40	--	25.30	23.40	22.18	21.49
5	20.61	20.97	21.06	22.24	22.92	22.77	23.37	--	25.25	23.35	22.14	21.56
6	20.61	20.96	21.17	22.30	22.90	22.77	23.35	--	25.20	23.30	22.11	21.66
7	20.60	21.07	21.17	22.28	22.88	22.79	23.64	--	25.16	23.27	22.09	21.65
8	20.58	21.06	21.18	22.43	22.89	22.76	23.70	--	25.08	23.21	22.05	21.66
9	20.56	21.05	21.21	22.42	22.96	22.75	23.74	--	24.98	23.18	22.01	21.64
10	20.55	21.05	21.24	22.42	22.94	22.75	23.73	25.73	24.92	23.10	21.96	21.63
11	20.54	21.02	21.32	22.41	22.92	22.77	23.73	25.70	24.86	23.05	21.93	21.61
12	20.53	21.02	21.34	22.40	22.90	22.75	23.72	25.82	24.80	23.00	21.90	21.63
13	20.52	21.06	21.41	22.39	22.87	22.74	23.71	26.04	24.76	22.95	21.86	21.62
14	20.51	21.07	21.41	22.37	23.04	22.72	23.69	26.27	24.69	22.89	21.85	21.59
15	20.49	21.05	21.54	22.36	23.04	22.70	23.68	26.30	24.60	22.82	21.80	21.56
16	20.48	21.05	21.56	22.35	23.02	22.91	23.95	26.23	24.52	22.76	21.76	21.54
17	20.47	21.03	21.58	22.34	22.99	22.95	24.12	26.19	24.47	22.75	21.77	21.52
18	20.46	21.02	21.60	22.34	22.97	22.95	24.87	26.10	24.40	22.70	21.75	21.47
19	20.42	21.05	21.62	22.33	22.94	22.93	--	26.03	24.33	22.65	21.73	21.45
20	20.40	21.03	21.69	22.32	22.92	22.93	--	25.97	24.28	22.59	21.70	21.43
21	20.38	21.01	21.90	22.55	22.89	22.88	--	25.90	24.22	22.52	21.67	21.42
22	20.40	21.00	21.94	22.56	22.87	22.86	--	25.85	24.17	22.48	21.65	21.40
23	20.68	20.99	21.96	22.56	22.85	22.83	--	25.76	24.10	22.43	21.62	21.38
24	20.66	20.97	21.99	22.55	22.82	22.86	--	25.71	24.02	22.39	21.60	21.37
25	20.64	21.06	22.02	22.53	22.81	23.43	--	25.69	23.96	22.34	21.58	21.36
26	20.62	21.06	22.04	22.58	22.80	23.48	--	25.65	23.87	22.35	21.55	21.34
27	20.79	21.05	22.06	22.55	22.77	23.51	--	25.64	23.80	22.33	21.53	21.33
28	20.77	21.06	22.08	22.57	22.74	23.52	--	25.62	23.74	22.30	21.54	21.31
29	20.77	21.05	22.10	22.54	-----	23.52	--	25.58	23.70	22.26	21.52	21.35
30	20.76	21.05	22.12	22.52	-----	23.51	--	25.50	23.62	22.23	21.50	21.38
31	20.76	-----	22.16	22.50	-----	23.50	-----	25.50	-----	22.26	21.48	-----
MAX	20.79	21.07	22.16	22.58	23.04	23.52	--	26.30	25.48	23.57	22.27	21.66
MIN	20.38	20.77	21.04	22.18	22.74	22.70	23.35	--	23.62	22.23	21.48	21.31

NOTE.--Gage height was above 24.87 ft (highest recordable stage) Apr. 19 to May 9.

07375000 Tchefuncta River near Folsom, La.

LOCATION.--Lat 30°36'55", long 90°14'55", on line between SE $\frac{1}{4}$ NE $\frac{1}{4}$ and SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.13, T.5 S., R.9 E., St. Helena meridian, Tangipahoa Parish, near center of span on downstream side of bridge on State Highway 40, 1.2 miles upstream from Bull Branch, and 3.6 miles southwest of Folsom.

DRAINAGE AREA.--95.5 sq mi, not including Bull Branch which has a drainage area of 7.5 sq mi at Highway 40. Total drainage area for extreme floods is 103 sq mi.

PERIOD OF RECORD.--October 1943 to current year. Prior to January 1944 monthly discharge only, published in WSP 1311. Prior to October 1954, published as Chefuncta River near Folsom.

GAGE.--Water-stage recorder. Datum of gage is 62.11 ft above mean sea level (Louisiana Geodetic Survey bench mark). Prior to June 9, 1944, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--30 years, 156 cfs (22.18 inches per year).

EXTREMES.--Current year: Maximum discharge, 17,600 cfs Mar. 25 (gage height, 21.63 ft); minimum, 37 cfs Oct. 16, 17, 18, 20, 21 (gage height, 5.06 ft).

Period of record: Maximum discharge, 29,200 cfs May 3, 1953 (gage height, 22.26 ft), from rating curve extended above 12,000 cfs by contracted-opening measurement at gage height 22.10 ft; minimum, 26 cfs Sept. 14, 15, 1968; minimum gage height, 4.80 ft Oct. 5, 6, 1970.

REMARKS.--Records good. Records of water temperatures for the water year 1973 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1057: 1944(M), 1945. WSP 1281: 1953(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	48	45	81	942	74	71	250	127	73	57	55	53
2	43	44	79	634	74	92	190	116	74	54	56	53
3	42	43	79	402	73	102	160	130	68	53	58	54
4	41	43	79	375	67	130	145	175	65	52	59	56
5	41	42	97	323	64	301	124	128	64	52	52	71
6	41	42	362	215	63	299	106	102	77	108	51	99
7	41	42	711	187	62	175	802	157	76	105	50	124
8	40	43	682	212	63	208	1,600	676	65	79	52	89
9	40	43	450	250	104	169	920	1,010	63	62	51	74
10	39	42	200	198	206	134	407	686	62	56	49	68
11	39	43	157	158	189	147	188	289	60	54	48	65
12	39	43	142	146	184	255	143	155	59	77	50	65
13	38	45	140	130	158	198	121	133	59	97	54	472
14	38	66	140	120	341	132	105	119	58	62	61	1,440
15	38	91	154	110	568	109	95	101	58	55	62	693
16	38	57	174	105	412	102	115	89	88	53	59	211
17	38	49	157	96	183	144	1,380	84	140	52	68	117
18	38	48	143	92	137	164	8,390	80	119	50	85	94
19	38	63	143	88	117	107	2,830	77	71	50	68	79
20	38	103	150	84	104	160	990	76	63	87	56	71
21	38	71	876	82	93	261	507	74	61	152	52	67
22	40	59	2,000	96	84	180	249	72	69	134	49	63
23	49	59	1,350	102	79	113	177	71	76	87	47	61
24	65	60	622	83	77	237	146	72	63	64	46	59
25	50	99	320	74	88	10,300	295	132	58	86	46	58
26	44	271	240	78	108	2,740	1,700	143	57	100	48	56
27	55	260	174	95	90	868	972	95	55	117	51	55
28	139	111	108	95	77	410	463	83	54	112	86	55
29	89	85	97	104	-----	289	202	75	55	78	97	57
30	55	83	94	91	-----	341	150	71	56	67	61	97
31	48	-----	540	324	-----	324	-----	71	-----	57	60	-----
TOTAL	1,470	2,195	10,741	6,091	3,939	19,262	23,922	5,469	2,066	2,369	1,787	4,676
MEAN	47.4	73.2	346	196	141	621	797	176	68.9	76.4	57.6	156
MAX	139	271	2,000	942	568	10,300	8,390	1,010	140	152	97	1,440
MIN	38	42	79	74	62	71	95	71	54	50	46	53
CFSM	.50	.77	3.62	2.05	1.48	6.50	8.35	1.84	.72	.80	.60	1.63
IN.	.57	.85	4.18	2.37	1.53	7.50	9.32	2.13	.80	.92	.70	1.82

CAL YR 1972	TOTAL	65,747	MEAN	150	MAX	4,360	MIN	38	CFSM	1.98	IN	25.61
WTR YR 1973	TOTAL	83,988	MEAN	230	MAX	10,300	MIN	38	CFSM	2.41	IN	32.72

PEAK DISCHARGE (BASE, 1,300 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
12-22	1245	16.37	2,100	4-18	1030	20.79	10,400
3-25	1315	21.63	17,600	4-26	0700	16.28	2,040
4-8	0515	15.76	1,750	9-14	1030	15.80	1,770

MISSISSIPPI RIVER DELTA

07375500 Tangipahoa River at Robert, La.

LOCATION.--Lat 30°30'23", long 90°21'42", in lot 39, T.6 S., R.8 E., St. Helena meridian, Tangipahoa Parish, on right bank just downstream from bridge on U.S. Highway 190, 1.2 mile west of Robert, 2.8 miles downstream from Chappelpeela Creek, and 6.0 miles east of Hammond.

DRAINAGE AREA.--646 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 6.87 ft above mean sea level. Prior to Nov. 25, 1939, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--35 years, 1,084 cfs (22.79 inches per year).

EXTREMES.--Current year: Maximum discharge, 37,900 cfs Apr. 19 (gage height, 21.55 ft); minimum, 335 cfs Oct. 20.

Period of record: Maximum discharge, 50,500 cfs May 3, 1953 (gage height, 23.13 ft); minimum discharge, 245 cfs Oct. 30 to Nov. 3, 1968; minimum gage height, 2.95 ft Oct. 25, 1939.
Maximum stage known, 27.1 ft in 1921, from floodmark.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Records of chemical analyses and water temperatures for the water year 1973 are published in Part 2 of this report.

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	365	389	504	4,620	731	623	4,850	1,400	600	501	542	521
2	373	378	486	3,550	1,150	766	4,750	1,100	640	470	542	525
3	367	372	471	2,730	2,135	780	3,170	1,000	660	458	766	516
4	357	370	466	3,000	1,400	1,140	2,020	1,200	600	457	650	526
5	357	360	560	2,890	1,020	1,890	1,660	1,400	640	457	556	556
6	354	360	2,080	2,045	888	1,720	1,400	1,800	1,600	474	526	720
7	352	370	3,860	1,710	815	1,460	4,300	2,500	1,400	503	623	829
8	344	370	5,500	1,850	788	1,910	7,550	5,000	1,000	542	528	892
9	344	373	3,870	2,220	1,140	1,530	5,750	5,260	700	514	526	832
10	344	375	2,060	2,000	2,350	1,170	3,290	3,830	600	480	523	724
11	344	365	1,330	1,500	2,270	1,000	1,990	2,440	560	467	507	728
12	343	362	1,040	1,200	1,720	900	1,560	1,890	520	465	494	754
13	340	392	934	1,000	1,440	1,000	1,330	1,760	500	468	530	3,280
14	340	442	902	900	2,620	1,200	1,190	2,090	520	460	530	7,070
15	341	524	1,290	800	3,440	2,500	1,080	1,680	560	457	635	6,190
16	341	467	1,100	750	2,700	3,500	1,340	1,420	900	454	550	2,720
17	341	400	1,000	700	1,660	3,250	8,320	1,220	700	452	526	2,000
18	341	450	900	660	1,290	2,540	27,100	1,000	525	447	525	1,500
19	338	550	900	700	1,130	1,760	34,200	900	503	463	550	1,200
20	336	536	1,700	900	1,040	1,600	22,000	800	474	479	525	1,000
21	336	506	4,420	1,200	955	1,710	15,000	760	467	519	503	900
22	338	446	6,960	2,480	924	1,530	9,000	700	486	536	486	800
23	383	418	6,660	2,380	843	1,180	6,000	800	683	538	477	700
24	667	405	5,820	1,430	804	1,810	3,500	955	544	540	472	623
25	633	500	3,440	1,025	860	17,900	2,000	1,390	491	546	463	610
26	433	1,030	1,740	938	836	22,000	2,500	1,740	474	632	460	582
27	536	1,040	1,270	930	728	17,600	4,500	1,320	468	650	470	554
28	512	598	1,090	924	668	11,100	5,000	1,000	523	787	477	546
29	512	534	972	983	-----	4,670	4,500	800	474	1,180	532	556
30	451	532	938	885	-----	2,840	2,500	700	468	798	517	761
31	410	-----	3,300	780	-----	3,010	-----	630	-----	585	534	-----
TOTAL	12,173	14,214	67,563	49,680	38,345	117,589	193,350	50,485	19,280	16,779	16,545	39,715
MEAN	393	474	2,179	1,603	1,369	3,793	6,445	1,629	643	541	534	1,324
MAX	667	1,040	6,960	4,620	3,440	22,000	34,200	5,260	1,600	1,180	766	7,070
MIN	336	360	466	660	668	623	1,080	630	467	447	460	516
CFSM	.61	.73	3.37	2.48	2.12	5.87	9.98	2.52	1.00	.84	.83	2.05
IN.	.70	.82	3.89	2.86	2.21	6.77	11.13	2.91	1.11	.97	.95	2.29

CAL YR 1972: TOTAL 431,696 MEAN 1,179 MAX 15,100 MIN 336 CFSM 1.83 IN. 24.87
CAL YR 1973: TOTAL 635,718 MEAN 1,742 MAX 34,200 MIN 336 CFSM 2.70 IN. 36.61

PEAK DISCHARGE (BASE, 5,000 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-08	1200	14.54	5,660	4-08	1700	15.70	7,860
12-22	1800	15.60	7,620	4-19	0600	21.55	37,900
3-25	1900	19.86	26,000	9-14	1500	15.62	7,670

MISSISSIPPI RIVER DELTA

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07376000 Tickfaw River at Holden, La.

LOCATION.--Lat 30°30'13", long 91°40'38", in sec.26, T.6 S., R.5 E., St. Helena meridian, Livingston Parish, near left bank on downstream side of bridge on U.S. Highway 190, 0.5 mile west of Holden, and 5.1 miles upstream from Big Branch.

DRAINAGE AREA.--247 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 19.15 ft above mean sea level. Prior to Sept. 13, 1944, nonrecording gage, Sept. 14, 1944, to June 14, 1949, water-stage recorder, June 15, 1949, to Dec. 9, 1949, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--33 years, 350 cfs (19.24 inches per year).

EXTREMES.--Current year: Maximum discharge, 11,200 cfs Mar. 26 (gage height, 18.50 ft); minimum, 83 cfs Oct. 19, 20, 21, 22 (gage height, 1.49 ft).

Period of record: Maximum discharge, 14,500 cfs Apr. 29, 1962; maximum gage height, 19.75 ft Mar. 22, 1943, from graph based on gage readings; minimum discharge, 65 cfs Oct. 1, 2, 3, 4, 1969; minimum gage height, 1.32 ft Sept. 4, 1968.

REMARKS.--Records good. See following page for table of daily gage height. Records of water temperatures for the water year 1973 are published in Part 2 of this report.

REVISIONS.--WSP 1711: Drainage area.

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	142	113	158	849	257	198	1,340	403	161	221	143	120
2	112	105	145	1,030	270	210	1,640	347	170	168	141	113
3	101	101	136	881	797	207	1,240	331	172	149	131	122
4	98	99	135	1,040	991	358	833	383	156	144	159	148
5	96	99	168	1,180	637	569	577	485	163	144	189	234
6	93	96	415	989	386	679	459	495	404	136	144	908
7	93	98	853	745	299	691	1,110	561	294	147	132	1,480
8	91	96	1,260	625	283	829	1,700	1,150	231	190	139	1,450
9	90	93	1,600	713	377	671	1,980	1,340	173	186	127	713
10	89	93	1,360	711	753	489	1,830	1,080	156	153	121	417
11	89	93	657	595	991	459	1,060	813	147	159	115	401
12	88	93	390	467	895	489	579	493	141	139	116	358
13	87	97	316	399	665	543	445	426	138	131	112	1,900
14	86	106	292	349	787	521	376	424	139	126	116	2,980
15	86	138	310	311	1,090	383	329	505	145	121	149	2,740
16	85	169	302	283	1,160	319	483	368	200	117	183	1,300
17	84	144	323	260	793	521	1,720	289	270	116	189	495
18	84	132	279	242	505	868	3,480	252	189	113	240	339
19	84	135	249	228	392	669	8,890	228	157	113	170	273
20	83	150	310	216	335	501	7,160	212	142	110	141	233
21	83	177	1,400	324	297	553	4,430	200	133	113	127	206
22	84	158	1,400	467	268	453	2,950	190	145	114	118	186
23	89	135	1,340	571	246	401	1,740	182	386	129	113	172
24	170	122	1,200	465	233	811	717	177	637	133	110	161
25	283	175	1,170	342	263	2,600	591	187	623	121	106	152
26	228	198	839	315	249	8,860	1,120	413	300	126	105	145
27	159	286	428	303	231	9,130	1,600	358	216	204	114	139
28	142	251	337	313	212	4,540	1,610	252	186	271	127	157
29	163	197	289	376	-----	2,930	773	206	168	263	163	169
30	145	173	295	349	-----	1,640	503	182	186	175	139	191
31	126	-----	607	291	-----	983	-----	168	-----	152	130	-----
TOTAL	3,533	4,122	18,963	16,229	14,662	43,075	53,265	13,100	6,728	4,684	4,309	18,402
MEAN	114	137	612	524	524	1,390	1,776	423	224	151	139	613
MAX	283	286	1,600	1,180	1,160	9,130	8,890	1,340	637	271	240	2,980
MIN	83	93	135	216	212	198	329	168	133	110	105	113
CFSM	.46	.55	2.48	2.12	2.12	5.63	7.19	1.71	.91	.61	.56	2.48
IN.	.53	.62	2.86	2.44	2.21	6.49	8.02	1.97	1.01	.71	.65	2.77
CAL YR 1972	TOTAL	133,826	MEAN	366	MAX	4,700	MIN	81	CFSM	1.48	IN	20.16
WTR YR 1973	TOTAL	201,072	MEAN	551	MAX	9,130	MIN	83	CFSM	2.23	IN	30.28

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
3-26	1400	18.50	11,200	4-19	1545	18.31	10,500
4-10	0045	10.40	2,070	9-14	1845	12.82	3,110

MISSISSIPPI RIVER DELTA

07376000 Tickfaw River at Holden, La.--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.13	1.79	2.17	5.96	2.85	2.46	8.09	3.72	2.19	2.58	1.94	1.71
2	1.82	1.72	2.07	6.79	2.93	2.54	9.15	3.41	2.26	2.20	1.92	1.65
3	1.70	1.68	1.99	6.12	5.68	2.52	7.67	3.31	2.27	2.04	1.81	1.73
4	1.66	1.66	1.98	6.85	6.61	3.43	5.87	3.61	2.16	1.99	2.08	1.99
5	1.64	1.66	2.23	7.46	4.87	4.57	4.61	4.15	2.20	1.99	2.34	2.64
6	1.61	1.63	3.75	6.59	3.62	5.11	4.02	4.20	3.72	1.92	1.95	6.20
7	1.60	1.65	5.97	5.44	3.22	5.18	7.08	4.52	3.07	2.02	1.83	8.60
8	1.58	1.64	7.79	4.85	3.01	5.87	9.32	7.33	2.68	2.37	1.90	8.48
9	1.57	1.60	9.02	5.29	3.57	5.08	10.15	8.10	2.28	2.34	1.78	5.28
10	1.56	1.60	8.20	5.28	5.48	4.17	9.70	7.00	2.15	2.08	1.72	3.80
11	1.55	1.60	4.96	4.70	6.62	4.02	6.90	5.79	2.08	2.12	1.67	3.71
12	1.54	1.60	3.64	4.06	6.18	4.17	4.62	4.19	2.03	1.94	1.68	3.46
13	1.53	1.64	3.22	3.69	5.05	4.44	3.95	3.85	2.01	1.88	1.64	9.60
14	1.52	1.73	3.07	3.42	5.65	4.33	3.57	3.83	2.02	1.84	1.68	12.58
15	1.52	2.00	3.18	3.19	7.06	3.60	3.30	4.25	2.07	1.79	1.98	12.09
16	1.51	2.25	3.13	3.01	7.37	3.24	4.05	3.52	2.45	1.76	2.28	7.69
17	1.50	2.06	3.26	2.87	5.68	4.32	9.34	3.05	2.92	1.75	2.31	4.19
18	1.50	1.96	2.99	2.75	4.25	6.04	13.32	2.81	2.39	1.72	2.69	3.35
19	1.50	1.98	2.80	2.66	3.66	5.07	17.74	2.66	2.16	1.72	2.18	2.95
20	1.49	2.11	3.09	2.58	3.34	4.23	17.05	2.55	2.04	1.69	1.92	2.69
21	1.49	2.31	8.34	3.25	3.10	4.49	14.75	2.47	1.97	1.72	1.78	2.51
22	1.50	2.17	8.35	4.05	2.92	3.98	12.47	2.40	2.06	1.73	1.70	2.37
23	1.56	1.98	8.13	4.58	2.78	3.71	9.29	2.34	3.59	1.86	1.65	2.27
24	2.23	1.87	7.56	4.04	2.69	5.45	5.31	2.31	4.91	1.90	1.62	2.19
25	3.01	2.28	7.44	3.37	2.89	11.78	4.68	2.38	4.84	1.79	1.59	2.12
26	2.66	2.46	5.86	3.21	2.80	17.38	7.16	3.77	3.11	1.84	1.58	2.07
27	2.18	3.03	3.85	3.14	2.68	17.82	9.03	3.46	2.56	2.45	1.66	2.02
28	2.04	2.81	3.35	3.20	2.55	14.86	9.02	2.81	2.34	2.94	1.78	2.15
29	2.21	2.44	3.05	3.57	-----	12.43	5.58	2.51	2.20	2.88	2.12	2.25
30	2.07	2.28	3.08	3.42	-----	8.99	4.24	2.34	2.34	2.21	1.88	2.41
31	1.91	-----	4.76	3.06	-----	6.58	-----	2.24	-----	2.02	1.80	-----
MAX	3.01	3.03	9.02	7.46	7.37	17.82	17.74	8.10	4.91	2.94	2.69	12.58
MIN	1.49	1.60	1.98	2.58	2.55	2.46	3.30	2.24	1.97	1.69	1.58	1.65

MISSISSIPPI RIVER DELTA

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07376500 Natalbany River at Baptist, La.

LOCATION.--Lat 30°30'15", long 90°32'45", in NE 1/4 sec. 30, T.6 S., R.7 E., St. Helena meridian, Tangipahoa Parish, near right bank on downstream side of bridge on U.S. Highway 190, 0.7 mile downstream from Still Branch, and 0.7 mile west of Baptist.

DRAINAGE AREA.--79.5 sq mi.

PERIOD OF RECORD.--August 1943 to current year.

GAGE.--Water-stage recorder. Datum of gage is 11.28 ft above mean sea level. Prior to June 4, 1948, nonrecording gage, and June 4, 1948, to Apr. 13, 1950, water-stage recorder at old highway bridge 100 ft upstream at same datum.

AVERAGE DISCHARGE.--30 years, 110 cfs (18.79 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,520 cfs Mar. 25 (gage height, 16.42 ft); minimum discharge, 5.8 cfs Nov. 6, 7, 11, 12, 13; minimum gage height, 2.88 ft Sept. 2.

Period of record: Maximum discharge, 9,550 cfs May 3, 1953 (gage height, 19.73 ft); minimum, 1.8 cfs Nov. 2-5, 1963; minimum gage height, 2.88 ft Sept. 2, 1973.

REMARKS.--Records good. Records of water temperatures for the water year 1973 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1057: 1943.

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	11	7.0	11	326	54	37	343	68	24	13	21	8.8
2	10	6.8	10	263	55	128	204	59	24	13	13	11
3	9.7	6.3	9.7	309	48	50	118	125	23	13	11	14
4	9.4	6.3	36	316	42	435	95	100	20	15	11	37
5	9.4	6.0	365	195	36	355	83	60	21	15	11	563
6	8.8	6.0	766	122	32	226	66	46	27	13	31	692
7	8.5	7.5	437	134	30	309	1,750	554	25	13	26	462
8	8.5	8.3	266	253	33	279	1,420	1,230	38	13	12	180
9	8.3	7.5	109	185	343	172	451	483	23	13	17	85
10	8.3	6.3	62	107	343	105	180	181	20	12	16	130
11	7.8	6.0	44	85	254	186	104	108	17	12	19	83
12	7.8	5.8	33	79	172	208	76	147	17	13	12	263
13	7.8	12	41	69	172	117	61	122	16	12	12	2,650
14	7.8	14	30	58	861	78	52	62	17	11	11	3,060
15	7.8	10	166	51	457	62	45	48	26	11	13	967
16	7.5	7.0	48	46	209	68	529	41	33	11	31	194
17	7.5	6.3	31	43	109	274	2,980	37	25	13	36	101
18	7.3	57	26	40	78	151	3,890	34	19	11	66	69
19	7.3	58	22	38	64	81	3,310	33	17	12	25	52
20	7.3	17	208	35	55	364	1,190	33	15	13	16	43
21	7.3	11	2,450	299	48	246	295	32	18	12	12	37
22	8.3	9.1	1,030	653	43	110	176	32	28	12	10	31
23	11	8.0	316	249	40	71	124	31	31	11	9.0	28
24	10	7.8	149	111	39	1,200	95	30	22	13	8.3	25
25	8.3	210	92	72	67	4,190	376	34	17	18	7.8	23
26	7.8	82	69	138	65	3,760	1,100	32	15	15	8.3	21
27	29	29	56	110	52	1,090	760	31	32	22	21	20
28	16	18	49	140	42	278	247	30	17	15	15	20
29	9.1	14	44	132	-----	334	128	27	14	16	18	21
30	8.0	13	200	80	-----	235	88	26	13	12	8.3	19
31	7.0	-----	1,140	60	-----	284	-----	24	-----	12	8.3	-----
TOTAL	289.6	663.0	8,315.7	4,798	3,843	15,483	20,336	3,900	654	410	536.0	9,909.8
MEAN	9.34	22.1	268	155	137	499	678	126	21.8	13.2	17.3	330
MAX	29	210	2,450	653	861	4,190	3,890	1,230	38	22	66	3,060
MIN	7.0	5.8	9.7	35	30	37	45	24	13	11	7.8	8.8
CFSM	.12	.28	3.37	1.95	1.72	6.28	8.53	1.58	.27	.17	.22	4.15
IN.	.14	.31	3.89	2.25	1.80	7.24	9.52	1.82	.31	.19	.25	4.64
CAL YR 1972	TOTAL	45,685.9	MEAN	125	MAX	2,450	MIN	5.8	CFSM	1.57	IN	21.38
WTR YR 1973	TOTAL	69,138.1	MEAN	189	MAX	4,190	MIN	5.8	CFSM	2.38	IN	32.35

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
12-21	0715	14.19	2,790	4-7	1130	13.47	2,360
12-31	0430	12.44	1,820	4-18	0030	16.28	4,390
3-25	0115	16.42	4,520	9-14	0530	15.28	3,560

MISSISSIPPI RIVER DELTA

07377000 Amite River near Darlington, La.

LOCATION.--Lat 30°53'20", long 90°50'40", in lot 72, T.2 S., R.4 E., St. Helena meridian, St. Helena Parish, near center of span on downstream side of State Highway 10, 1.5 miles upstream from Collins Creek, and 4.0 miles west of Darlington.

DRAINAGE AREA.--580 sq mi.

PERIOD OF RECORD.--March 1949 to September 1950 (annual maximum), October 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 145.81 ft above mean sea level. Mar. 17, 1949, to Oct. 23, 1950, crest-stage gage; Oct. 24, 1950, to Jan. 12, 1951, nonrecording gage; Jan. 13, 1951, to May 28, 1963, water-stage recorder at former channel 700 ft to the left; and July 30, 1963, to Feb. 12, 1964, nonrecording gage at present site. Prior to Oct. 1, 1963, datum, 2.99 ft higher.

AVERAGE DISCHARGE.--23 years, 822 cfs (19.25 inches per year).

EXTREMES.--Maximum discharge during year, 62,100 cfs Mar. 25 (gage height, 20.19 ft); minimum, 202 cfs Oct. 20, 21 (gage height, 2.31 ft).

Period of record: Maximum discharge, 62,100 cfs Mar. 25, 1973 (gage height, 20.19 ft); minimum discharge, 188 cfs Oct. 18, 1956.

REMARKS.--Records good. Records of water temperatures for the water year 1973 are published in Part 2 of this report.

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	255	260	362	1,000	828	487	5,220	735	564	366	390	363
2	243	265	337	1,500	3,250	481	3,520	699	609	354	905	360
3	228	466	324	2,930	2,340	565	1,590	2,270	1,380	345	560	375
4	228	367	324	3,990	1,160	1,030	1,130	5,060	753	342	418	381
5	225	298	421	2,900	836	1,990	975	4,780	945	510	366	515
6	225	280	2,910	1,540	691	1,570	820	1,700	569	810	354	2,370
7	223	273	7,000	1,680	621	1,570	2,340	1,800	501	605	342	3,870
8	220	280	6,920	2,750	621	2,970	4,580	5,360	771	510	336	3,220
9	220	288	2,660	2,780	2,470	2,990	3,210	4,960	980	418	336	1,330
10	220	278	1,080	1,740	3,090	1,550	1,490	2,790	591	357	325	865
11	218	273	804	1,190	1,940	4,130	975	1,270	497	363	320	668
12	215	270	667	1,010	1,140	7,200	785	1,130	461	366	360	1,200
13	213	303	677	872	924	5,270	677	2,860	441	369	437	2,460
14	213	1,100	856	756	3,520	1,830	605	3,250	465	348	401	1,290
15	213	726	900	684	6,290	1,130	555	1,730	497	339	397	695
16	210	468	1,400	635	5,220	1,080	940	830	483	333	390	555
17	210	365	1,210	597	1,990	3,420	7,760	690	506	328	457	483
18	208	331	820	569	1,090	2,710	13,000	618	449	325	605	441
19	205	462	642	543	892	1,420	14,300	573	422	323	465	418
20	203	528	744	528	772	1,390	9,330	537	404	345	381	401
21	203	399	4,790	562	691	2,050	3,290	510	453	497	348	390
22	223	343	11,200	670	635	1,410	1,270	488	890	384	330	378
23	938	318	11,200	607	600	972	950	470	569	351	318	372
24	689	310	4,220	543	576	2,640	800	645	422	336	313	366
25	337	506	1,470	506	562	31,300	1,160	1,810	394	333	308	363
26	273	968	1,020	528	549	29,100	4,440	875	381	375	305	357
27	295	691	832	590	528	10,300	4,620	623	372	397	320	354
28	343	506	709	635	506	3,000	2,570	546	366	740	474	360
29	305	434	660	691	-----	1,490	1,250	510	360	582	429	418
30	275	406	656	593	-----	1,260	880	474	357	641	378	457
31	265	-----	800	537	-----	4,530	-----	457	-----	415	418	-----
TOTAL	8,541	12,762	68,615	36,656	44,332	132,835	95,032	51,050	16,852	13,107	12,486	26,075
MEAN	276	425	2,213	1,182	1,583	4,285	3,168	1,647	562	423	403	869
MAX	938	1,100	11,200	3,990	6,290	31,300	14,300	5,360	1,380	810	905	3,870
MIN	203	260	324	506	506	481	555	457	357	323	305	354
CFSM	.48	.73	3.82	2.04	2.73	7.39	5.46	2.84	.97	.73	.69	1.50
IN.	.55	.82	4.40	2.35	2.84	8.52	6.10	3.27	1.08	.84	.80	1.67
CAL YR 1972	TOTAL 314,403	MEAN 859	MAX 12,300	MIN 203	CFSM 1.48	IN 20.17						
WTR YR 1973	TOTAL 518,343	MEAN 1,420	MAX 31,300	MIN 203	CFSM 2.45	IN 33.25						

PEAK DISCHARGE (BASE, 5,000 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
12-7	1130	12.64	8,030	3-31	2000	11.27	6,320
12-23	0100	15.95	15,200	4-19	1230	16.03	15,600
2-15	1515	11.66	6,790	4-26	2115	10.93	5,920
3-12	1600	12.24	7,510	5-4	1445	10.65	5,580
3-25	1945	20.19	62,100	5-9	0045	11.13	6,160

MISSISSIPPI RIVER DELTA

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07377500 Comite River near Olive Branch, La.

LOCATION.--Lat 30°45'21", long 91°02'38", in lot 41, T.3 S., R.2 E., St. Helena meridian, East Feliciana Parish, near center of span on downstream side of bridge on State Highway 67, 1,800 ft downstream from Knighton Bayou, and 1.3 miles northeast of Olive Branch.

DRAINAGE AREA.--145 sq mi.

PERIOD OF RECORD.--August 1942 to current year.

GAGE.--Water-stage recorder. Datum of gage is 115.65 ft above mean sea level (Louisiana Geodetic Survey bench mark). Prior to Oct. 29, 1949, nonrecording gage. Prior to Feb. 3, 1964, at site 1,400 ft upstream at same datum.

AVERAGE DISCHARGE.--31 years, 222 cfs (20.79 inches per year).

EXTREMES.--Current year: Maximum discharge, 12,500 cfs Mar. 25 (gage height, 17.32 ft); minimum, 28 cfs Oct. 12, 13, 15, 16, 17, 18, 19; minimum gage height, 0.78 ft Aug. 31, Sept. 2.
Period of record: Maximum discharge, 19,900 cfs Mar. 18, 1961 (gage height, 21.37 ft); minimum, 28 cfs Oct. 12, 13, 15, 16, 17, 18, 19, 1972; minimum gage height, 0.78 ft Aug. 31, Sept. 2, 1973.

REMARKS.--Records good. Records of water temperatures for the water year 1973 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1007: Drainage area. WSP 1177: 1948, 1949(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	32	41	65	364	427	86	1,410	90	66	63	50	44
2	33	44	60	439	904	84	362	95	63	57	57	44
3	33	148	55	752	484	84	220	301	60	54	57	47
4	35	73	64	912	186	457	150	274	62	54	50	56
5	35	47	150	370	137	896	120	128	62	63	48	73
6	35	43	1,510	211	116	345	158	97	63	488	47	240
7	34	41	1,460	260	103	418	1,190	1,140	73	113	47	523
8	34	43	1,040	550	124	439	1,390	1,720	346	74	45	751
9	34	47	252	397	1,010	418	551	1,060	102	60	47	218
10	34	43	184	206	856	283	205	235	70	56	45	156
11	34	38	154	172	318	1,670	150	136	62	53	45	109
12	32	36	136	152	222	1,660	120	111	60	53	50	124
13	32	139	235	134	186	744	100	142	60	53	73	1,670
14	33	616	250	121	804	254	90	111	65	51	86	1,600
15	30	233	264	110	1,100	200	168	91	107	48	117	422
16	29	84	361	100	484	217	982	85	142	48	73	132
17	32	62	199	94	213	676	4,300	79	85	48	70	95
18	32	58	154	86	170	457	7,120	78	68	47	146	78
19	32	159	134	81	148	188	4,360	74	62	47	71	68
20	32	170	264	79	132	252	1,110	73	59	47	53	66
21	33	84	1,160	134	119	623	600	71	56	50	51	63
22	48	64	1,810	145	111	231	300	70	90	95	48	60
23	496	57	1,290	108	106	163	180	68	70	56	45	59
24	318	55	258	86	103	1,490	115	78	62	48	45	57
25	78	168	202	78	98	8,320	1,030	322	60	50	45	56
26	54	340	172	119	97	5,530	723	174	60	91	45	54
27	61	124	154	152	94	996	443	91	60	128	45	51
28	67	105	141	155	89	464	178	79	59	62	50	60
29	58	92	134	186	-----	415	117	74	60	54	47	75
30	47	76	143	126	-----	404	98	70	62	53	45	98
31	44	-----	505	98	-----	2,040	-----	66	-----	50	45	-----
TOTAL	1,961	3,330	12,960	6,977	8,941	30,504	28,040	7,283	2,376	2,314	1,788	7,147
MEAN	63.3	111	418	225	319	984	935	235	79.2	74.6	57.7	238
MAX	496	616	1,810	912	1,100	8,320	7,120	1,720	346	488	146	1,670
MIN	29	36	55	78	89	84	90	66	56	47	45	44
CFSM	.44	.77	2.88	1.55	2.20	6.79	6.45	1.62	.55	.51	.40	1.64
IN.	.50	.85	3.32	1.79	2.29	7.83	7.19	1.87	.61	.59	.46	1.83
CAL YR 1972	TOTAL	71,685	MEAN 196	MAX 2,590	MIN 29	CFSM 1.35	IN 18.39					
WTR YR 1973	TOTAL	113,621	MEAN 311	MAX 8,320	MIN 29	CFSM 2.14	IN 29.15					

PEAK DISCHARGE (BASE, 2,500 CFS)

DATE	TIME	G.H.T.	DISCHARGE	DATE	TIME	G.H.T.	DISCHARGE
3-25	1945	17.32	12,500	4-18	0400	13.39	8,150

MISSISSIPPI RIVER DELTA

07378000 Comite River near Comite, La.

LOCATION.--Lat 30°30'45", long 91°04'25", in NW¼ sec.24, T.6 S., R.1 E., St. Helena meridian, East Baton Rouge Parish, near left bank on downstream side of bridge on State Highway 946, 0.5 mile downstream from Blackwater Bayou, and 2.6 miles west of Comite.

DRAINAGE AREA.--284 sq mi (see REMARKS).

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

GAGE.--Water-stage recorder. Datum of gage is 25.85 ft above mean sea level (Louisiana Geodetic Survey bench mark; levels by Louisiana Department of Public Works). Prior to Apr. 22, 1946, nonrecording gage at same site. Prior to Oct. 1, 1962, at datum 3.00 ft higher.

AVERAGE DISCHARGE.--29 years, 443 cfs (21.18 inches per year).

EXTREMES.--Current year: Maximum discharge, 14,500 cfs Mar. 26 (gage height, 19.58 ft); minimum, 29 cfs Oct. 16, 17; minimum, gage height, 1.95 ft Sept. 1

Period of record: Maximum discharge, 20,900 cfs Apr. 29, 1962; maximum gage height, 28.64 ft May 19, 1953, present datum (prior to channel dredging August 1961); minimum daily discharge, 29 cfs Oct. 29 to Nov. 3, 1963.

REMARKS.--Records good. Since 1957, entire flow from 46 sq mi diverted from basin. See following page for table of daily gage height. Records of water temperatures for the water year 1973 are published in Part 2 of this report.

REVISIONS.--WSP 1920; Drainage area.

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	53	46	118	826	1,620	104	2,600	60	88	128	145	56
2	44	45	102	712	2,770	530	746	54	86	84	152	58
3	42	60	92	1,740	1,230	162	314	159	84	70	92	68
4	41	139	331	1,960	425	1,360	170	341	82	62	80	92
5	41	72	950	962	255	1,930	110	128	80	84	70	208
6	40	50	3,410	440	187	1,100	130	62	78	227	68	583
7	40	49	3,050	422	150	1,380	3,310	3,230	139	575	70	678
8	40	45	1,070	1,060	192	878	2,740	4,040	355	159	76	796
9	38	45	575	966	2,320	716	1,040	1,680	276	116	64	591
10	38	46	246	450	2,320	632	317	602	142	92	64	227
11	38	44	159	314	962	2,740	160	273	100	84	60	227
12	37	42	134	276	508	3,330	100	189	86	76	58	235
13	36	128	341	238	494	1,640	80	152	84	74	70	9,400
14	36	735	389	205	1,860	508	100	187	80	72	104	4,950
15	37	648	301	184	1,750	311	240	124	152	70	106	1,230
16	34	187	556	165	1,100	712	2,630	108	189	70	120	334
17	33	114	304	147	375	990	10,300	102	142	70	120	197
18	34	189	165	134	249	962	12,900	94	102	68	128	150
19	34	501	122	124	197	341	10,400	92	112	70	150	126
20	35	338	379	120	168	958	3,040	92	145	98	94	112
21	40	189	3,210	922	150	1,070	644	88	84	194	72	104
22	117	122	2,870	572	137	659	304	88	273	152	68	98
23	666	98	2,180	270	134	298	181	86	124	139	62	92
24	815	90	610	184	126	4,490	120	92	88	86	58	86
25	216	389	279	150	122	14,000	497	150	74	76	56	80
26	100	564	192	311	114	13,300	2,050	355	70	78	56	74
27	145	321	142	348	114	3,470	822	150	70	152	62	88
28	92	171	118	490	108	895	338	108	68	128	70	106
29	80	192	104	389	-----	790	157	92	66	134	66	128
30	60	150	112	273	-----	705	92	90	128	80	62	208
31	49	-----	842	192	-----	2,810	-----	86	-----	70	58	-----
TOTAL	3,151	5,809	24,053	15,546	20,137	63,771	56,632	13,154	3,647	3,638	2,581	21,382
MEAN	102	194	776	501	719	2,057	1,888	424	122	117	83.3	713
MAX	815	735	3,410	1,960	2,770	14,000	12,900	4,040	355	575	152	9,400
MIN	33	42	92	120	108	104	80	54	66	62	56	56
CFSM	.36	.68	2.73	1.76	2.53	7.24	6.65	1.49	.43	.41	.29	2.51
IN.	.41	.76	3.15	2.04	2.64	8.35	7.42	1.72	.48	.48	.34	2.80
CAL YR 1972	TOTAL 158,110	MEAN 432	MAX 7,210	MIN 33	CFSM 1.52	IN 20.71						
WTR YR 1973	TOTAL 233,501	MEAN 540	MAX 14,000	MIN 33	CFSM 2.25	IN 30.59						

PEAK DISCHARGE (BASE, 5,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
3-26	1445	19.58	14,500	5-7	1445	11.55	5,220
4-18	0715	18.34	13,000	9-13	0730	16.36	10,700

MISSISSIPPI RIVER DELTA

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07378000 Comite River near Comite, La.--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.36	2.41	2.79	4.85	5.67	2.72	8.09	2.50	2.15	2.37	2.36	1.97
2	2.30	2.40	2.71	4.58	8.44	4.02	4.61	2.47	2.13	2.13	2.47	1.98
3	2.28	2.48	2.66	6.76	5.76	2.97	3.50	2.96	2.12	2.04	2.17	2.03
4	2.27	2.88	3.51	7.20	3.82	5.84	--	3.58	2.11	2.00	2.10	2.17
5	2.27	2.56	5.02	5.19	3.31	7.16	--	2.84	2.10	2.13	2.04	2.76
6	2.26	2.45	9.54	3.86	3.06	5.50	--	2.51	2.09	2.74	2.03	3.94
7	2.26	2.44	9.00	3.81	2.92	6.06	9.12	8.41	2.31	3.89	2.04	4.22
8	2.26	2.40	6.65	5.42	3.07	5.01	8.34	10.38	3.27	2.53	2.07	4.56
9	2.25	2.40	4.20	5.21	7.50	4.60	5.35	6.65	3.01	2.31	2.01	3.97
10	2.25	2.41	3.28	3.89	7.65	4.38	3.51	3.98	2.45	2.18	2.01	2.84
11	2.25	2.39	2.96	3.50	5.20	7.88	--	3.02	2.23	2.13	1.99	2.85
12	2.24	2.38	2.86	3.38	4.05	9.45	--	2.67	2.14	2.08	1.98	2.88
13	2.23	2.80	3.58	3.25	3.95	6.57	--	2.50	2.12	2.07	2.05	15.30
14	2.23	4.58	3.72	3.13	7.03	4.05	--	2.65	2.10	2.06	2.25	11.30
15	2.24	4.40	3.46	3.05	6.81	3.49	--	2.38	2.42	2.05	2.25	5.72
16	2.21	3.06	4.18	2.98	5.47	4.42	6.56	2.28	2.65	2.04	2.34	3.23
17	2.20	2.77	3.46	2.91	3.68	5.29	16.03	2.22	2.46	2.05	2.34	2.67
18	2.21	3.04	2.98	2.86	3.29	5.20	18.21	2.19	2.23	2.03	2.39	2.42
19	2.21	4.02	2.81	2.82	3.10	3.58	16.12	2.17	2.25	2.04	2.48	2.28
20	2.22	3.57	3.53	2.80	2.99	5.10	8.72	2.17	2.43	2.18	2.17	2.18
21	2.26	3.07	9.26	4.92	2.92	5.46	4.39	2.15	2.14	2.51	2.06	2.13
22	2.65	2.81	8.70	4.20	2.87	4.41	3.46	2.15	3.00	2.49	2.03	2.08
23	4.45	2.69	7.52	3.36	2.86	3.45	3.04	2.14	2.36	2.42	2.00	2.04
24	4.82	2.65	4.28	3.05	2.83	10.21	2.80	2.17	2.15	2.14	1.98	2.00
25	3.16	3.72	3.39	2.91	2.81	19.12	3.87	2.45	2.07	2.08	1.97	1.97
26	2.70	4.19	3.08	3.49	2.77	18.97	7.22	3.28	2.05	2.08	1.97	1.94
27	2.89	3.52	2.89	3.60	2.77	15.57	4.85	2.49	2.04	2.45	2.00	2.02
28	2.66	3.00	2.79	4.00	2.74	8.24	3.57	2.27	2.03	2.39	2.05	2.16
29	2.60	3.08	2.72	3.72	-----	5.32	2.95	2.18	2.02	2.39	2.02	2.30
30	2.50	2.92	2.76	3.37	-----	4.57	2.66	2.16	2.29	2.10	2.00	2.74
31	2.44	-----	4.88	3.08	-----	8.32	-----	2.14	-----	2.04	1.98	-----
MAX	4.82	4.58	9.54	7.20	8.44	19.12	--	10.38	3.27	3.89	2.48	15.30
MIN	2.20	2.38	2.66	2.80	2.74	2.72	--	2.14	2.02	2.00	1.97	1.94

LOCATION.--Lat 30°27'50", long 90°59'25", in lot 2, T.7 S., R.2 E., St. Helena meridian, Livingston Parish, on right bank at downstream side of bridge on U.S. Highway 190, 1,000 ft downstream from Comite River, 2.3 miles southwest of town of Denham Springs, and 15 miles east of Baton Rouge.

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

GAGE.--Water-stage recorder. Datum of gage is 3.87 ft above mean sea level. Prior to Aug. 8, 1939, nonrecording gage at same site and datum. Auxiliary water-stage recorder 3.0 miles downstream at datum 3.12 ft above mean sea level (Corps of Engineers bench mark). Oct. 1, 1945, to Dec. 23, 1952, nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum discharge, 61,800 cfs Mar. 27 (gage height, 32.63 ft); minimum, 353 cfs Oct. 21 (gage height, 5.54 ft).

Period of record: Maximum discharge, 67,000 cfs May 20, 1953; maximum gage height, 32.63 ft Mar. 27, 1973; minimum daily discharge, 271 cfs Oct. 17, 18, 1956; minimum gage height, 4.56 ft Nov. 18, 1938.
Maximum stage known, 35.4 ft Mar. 15, 1921, from floodmark.

REVISIONS.--WSP 1920: Drainage area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	488	441	646	3,950	1,720	954	7,370	2,130	879	682	767	559
2	429	441	580	4,180	5,470	1,820	7,460	1,910	926	604	875	541
3	399	423	535	5,260	6,680	1,310	5,960	1,980	954	580	942	568
4	389	562	851	6,550	5,450	3,220	3,810	3,070	1,530	556	854	711
5	383	556	1,950	6,700	2,790	4,530	2,510	4,740	1,270	610	676	1,100
6	381	470	4,910	5,440	1,760	4,540	2,110	5,080	1,600	823	604	2,050
7	377	439	6,890	3,550	1,450	4,430	5,900	6,900	1,200	1,900	568	3,850
8	375	423	8,020	3,870	1,340	4,520	9,150	10,700	1,280	1,170	577	5,370
9	373	415	7,970	4,860	3,900	4,500	9,000	10,000	1,420	893	547	5,380
10	369	417	6,070	4,470	6,300	4,580	6,510	8,100	1,440	714	532	3,340
11	367	411	2,850	3,220	6,260	4,420	3,950	5,360	1,050	640	520	2,180
12	367	405	1,650	2,400	4,660	6,780	2,400	3,280	872	607	520	1,630
13	365	679	1,810	1,970	2,280	8,110	1,960	2,420	805	574	562	11,500
14	363	1,120	1,690	1,700	5,280	7,400	1,740	3,480	802	574	631	17,500
15	363	1,690	1,840	1,500	6,270	4,660	1,590	3,900	816	550	670	11,600
16	363	1,190	1,930	1,330	7,100	2,810	2,910	2,950	1,080	532	661	4,460
17	359	760	2,100	1,210	6,580	3,930	14,200	1,810	1,030	550	694	2,220
18	359	788	1,810	1,130	4,630	5,200	28,900	1,510	847	515	688	1,420
19	359	1,730	1,380	1,060	2,380	4,450	35,500	1,350	756	526	784	1,170
20	355	1,000	1,590	1,000	1,820	3,810	27,700	1,240	837	628	725	1,030
21	355	872	6,890	2,140	1,580	3,870	17,300	1,150	700	816	604	934
22	443	676	8,260	2,740	1,410	3,790	9,820	1,090	823	1,140	550	872
23	1,060	571	10,200	2,000	1,290	2,630	4,260	1,030	826	861	520	830
24	1,540	523	11,500	1,380	1,190	5,530	2,870	1,020	826	628	508	791
25	1,310	1,300	10,000	1,120	1,150	24,800	2,410	1,310	798	586	498	760
26	718	1,240	5,160	1,390	1,090	45,500	5,570	2,520	704	592	493	739
27	802	1,380	2,520	1,440	1,050	56,300	6,840	1,740	664	777	498	739
28	586	1,040	1,770	1,890	998	31,200	6,700	1,210	634	1,080	529	847
29	556	854	1,500	1,730	-----	12,400	4,950	1,040	610	954	598	816
30	523	721	1,490	1,530	-----	5,550	2,890	950	607	875	625	1,150
31	478	-----	3,040	1,190	-----	5,530	-----	893	-----	812	553	-----
TOTAL	15,954	23,537	119,402	83,900	93,878	283,074	244,240	95,863	28,586	23,349	19,373	86,657
MEAN	515	785	3,852	2,706	3,353	9,131	8,141	3,092	953	753	625	2,889

CAL YR 1972	TOTAL	673,446	MEAN	1,840	MAX	19,800	MIN	354	CFSM	1.44	IN	19.57
WTR YR 1973	TOTAL	1,117,813	MEAN	3,063	MAX	56,300	MIN	355	CFSM	2.39	IN	32.49

83

LOCATION.--Lat 30°06'00", long 90°58'40", in lot 96, T-11 S., R-14 E., Louisiana meridian, Ascension Parish, on left bank 40 ft upstream from culvert under State Highway 18 in Donaldsonville, and 1,500 ft downstream from Donaldsonville Pumping plant.

PERIOD OF RECORD.--August 1957 to Current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (Corps of Engineers bench mark, levels by Louisiana Department of Highways).

AVERAGE DISCHARGE.--16 years, 266 cfs (192,700 acre-ft per year).

EXTREMES.--Period of record: Maximum daily discharge, 544 cfs May 11, 1972; no flow June 11, 14, 1959, Feb. 23, 24-27, 28, 1970, Mar. 3, Apr. 2, 3, May 14, 1971, Sept. 7-12, 1973.

REMARKS.--Records fair. Pumping plant at Donaldsonville pumps total flow of Bayou Lafourche from Mississippi River except for small amounts of storm drainage during freshets. See following page for table of daily elevation. Records of water temperatures, and suspended-sediment loads for the water year 1973 are published in Part 2 of this report.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	485	226	326	535	209	274	219	232	379	171	181	250
2	401	214	319	492	231	222	224	226	369	181	246	250
3	222	208	310	440	244	193	229	265	361	171	250	250
4	211	207	308	492	243	191	243	357	358	155	255	250
5	204	209	324	496	240	184	262	402	357	145	258	250
6	200	212	344	437	182	191	217	361	354	181	258	50
7	199	272	292	358	294	136	155	360	362	216	264	0
8	201	480	263	358	276	174	210	361	361	201	257	0
9	201	509	269	369	220	223	323	364	354	189	249	0
10	201	451	266	374	217	203	324	361	351	174	244	0
11	203	393	263	365	203	220	323	366	350	151	254	0
12	311	418	261	374	179	224	323	366	447	142	245	0
13	457	399	271	374	181	222	316	364	371	142	248	50
14	473	355	271	382	285	238	305	368	92	140	246	300
15	479	343	303	379	349	280	311	366	67	137	236	100
16	346	347	326	371	320	304	362	361	61	136	234	100
17	220	350	338	353	355	337	325	366	58	134	231	100
18	210	400	330	331	363	361	456	371	56	128	230	100
19	205	446	334	301	352	325	223	374	59	134	233	200
20	205	383	338	271	353	296	168	376	55	130	100	100
21	207	296	399	253	353	316	259	375	57	134	250	100
22	336	294	332	234	342	337	251	374	58	140	250	100
23	469	304	326	212	331	359	254	375	57	130	250	100
24	477	311	376	190	329	412	245	375	57	126	250	100
25	480	316	396	167	333	276	242	384	55	129	250	100
26	485	302	441	170	332	237	233	389	92	127	250	100
27	504	299	521	158	318	208	239	380	237	124	250	100
28	495	310	456	167	303	211	226	384	228	122	250	100
29	487	320	470	178	-----	247	261	382	207	122	250	100
30	479	321	529	185	-----	228	256	378	192	124	250	100
31	360	-----	541	192	-----	222	-----	372	-----	125	250	-----
TOTAL	10,413	9,895	10,843	9,958	7,937	7,851	7,984	11,135	6,462	4,561	7,469	3,350
MEAN	336	330	350	321	283	253	266	359	215	147	241	112
MAX	504	509	541	535	363	412	456	402	447	216	264	300
MIN	199	207	261	158	179	136	155	226	55	122	100	0
AC-FT	20,650	19,630	21,510	19,750	15,740	15,570	15,840	22,090	12,820	9,050	14,810	6,640
CAL YR 1972	TOTAL 94,138		MEAN 257	MAX 541	MIN 36	AC-FT 186,700						

MISSISSIPPI RIVER DELTA

07380400 Bayou Lafourche at Donaldsonville, La.--Continued

ELEVATION, IN FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.83	6.92	7.89	9.11	6.73	7.43	6.85	6.99	8.23	6.26	6.37	8.92
2	8.26	6.79	7.83	8.86	6.98	6.88	6.90	6.92	8.17	6.38	7.14	8.93
3	6.87	6.73	7.77	8.58	7.13	6.53	6.95	7.33	8.12	6.26	7.19	8.94
4	6.76	6.71	7.75	8.87	7.12	6.51	7.11	7.99	8.10	6.06	7.24	8.46
5	6.67	6.73	7.86	8.89	7.08	6.42	7.32	8.37	8.09	5.94	7.28	7.20
6	6.63	6.77	7.98	8.56	6.40	6.51	6.81	8.12	8.07	6.38	7.27	7.69
7	6.61	7.26	7.60	8.10	7.33	5.82	6.05	8.11	8.12	6.81	7.34	7.02
8	6.64	8.80	7.31	8.10	7.25	6.29	6.67	8.12	8.11	6.64	7.27	6.47
9	6.64	8.96	7.39	8.17	6.85	6.89	7.86	8.14	8.07	6.49	7.18	6.11
10	6.63	8.64	7.36	8.20	6.82	6.66	7.87	8.12	8.06	6.30	7.13	6.80
11	6.66	8.31	7.33	8.15	6.66	6.85	7.86	8.15	8.05	6.01	7.23	--
12	7.57	8.46	7.31	8.20	6.36	6.90	7.86	8.15	8.52	5.90	7.13	--
13	8.67	8.34	7.41	8.20	6.38	6.88	7.80	8.14	7.83	5.90	7.16	--
14	8.76	8.08	7.41	8.25	7.49	7.05	7.71	8.17	5.26	5.87	7.14	--
15	8.79	8.00	7.71	8.23	8.04	7.50	7.76	8.15	4.93	5.84	7.03	--
16	7.87	8.03	7.89	8.18	7.84	7.71	8.10	8.12	4.84	5.82	7.02	--
17	6.86	8.05	7.97	8.07	8.07	7.96	7.76	8.15	4.80	5.80	6.98	--
18	6.74	8.34	7.91	7.92	8.13	8.12	8.66	8.18	4.78	5.71	6.97	--
19	6.69	8.61	7.95	7.69	8.06	7.85	6.86	8.20	4.81	5.80	7.00	--
20	6.69	8.23	7.97	7.41	8.07	7.65	6.19	8.22	4.76	5.74	6.37	--
21	6.71	7.65	8.34	7.22	8.07	7.82	7.26	8.20	4.79	5.80	7.44	--
22	7.76	7.63	7.92	7.01	8.00	7.96	7.18	8.20	4.81	5.87	8.92	--
23	8.74	7.72	7.87	6.77	7.92	8.11	7.23	8.21	4.79	5.74	8.93	--
24	8.78	7.77	8.21	6.50	7.90	8.42	7.14	8.21	4.78	5.70	8.93	--
25	8.80	7.80	8.33	6.20	7.94	7.40	7.09	8.26	4.75	5.74	8.93	8.45
26	8.83	7.70	8.58	6.24	7.93	7.04	7.00	8.29	5.23	5.71	8.93	8.45
27	8.93	7.68	9.03	6.10	7.82	6.72	7.07	8.24	7.04	5.67	8.94	8.43
28	8.88	7.77	8.66	6.21	7.71	6.75	6.93	8.26	6.95	5.65	8.93	8.40
29	8.84	7.84	8.75	6.35	-----	7.15	7.29	8.25	6.70	5.64	8.93	8.38
30	8.80	7.85	9.07	6.43	-----	6.94	7.24	8.23	6.52	5.67	8.93	8.40
31	7.98	-----	9.14	6.53	-----	6.88	-----	8.19	-----	5.68	8.92	-----
MAX	8.93	8.96	9.14	9.11	8.13	8.42	8.66	8.37	8.52	6.81	8.94	--
MIN	6.61	6.71	7.31	6.10	6.36	5.82	6.05	6.92	4.75	5.64	6.37	--

MISSISSIPPI RIVER DELTA

85

07381000 Bayou Lafourche at Thibodaux, La.

LOCATION.--Lat 29°47'52", long 90°49'21", in lot 117, T.15 S., R.16 E., Lafourche Parish, on downstream side of left pier of drawspan of bridge on State Highway 20 at Tibodaux, 2.7 miles upstream from Laurel Valley Canal.

PERIOD OF RECORD.--April 1966 to current year (elevations only).

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Louisiana Department of Public Works).

EXTREMES.--Current year: Maximum elevation, 7.64 ft Apr. 17; minimum, 3.77 ft May 2.

Period of record: Maximum elevation, 7.64 ft Apr. 17, 1973; minimum, 0.82 ft Dec. 2, 1966.

REMARKS.--Pumping plant at Donaldsonville pumps total flow of Bayou Lafourche from Mississippi River except for small amounts of storm drainage during freshets. Low-water sill about 1,000 ft downstream since Nov. 5, 1968. Records of suspended-sediment loads for the water year 1973 are published in Part 2 of this report.

ELEVATION, IN FEET, AT 0800, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.63	5.45	5.32	5.96	5.22	5.43	5.27	3.90	4.16	5.25	4.91	5.08
2	5.62	5.25	5.32	5.89	5.26	5.41	5.22	3.81	4.17	5.16	5.13	5.08
3	5.47	5.12	5.32	5.80	5.30	5.38	5.25	3.87	4.10	5.14	5.19	5.18
4	5.40	5.07	5.33	5.69	5.33	5.57	5.23	3.80	4.02	5.07	5.24	5.25
5	5.25	5.09	5.31	5.68	5.35	5.50	5.23	4.08	3.94	5.02	5.27	5.54
6	5.20	5.12	6.02	5.69	4.86	5.75	5.28	4.25	3.90	5.02	5.27	6.42
7	5.21	5.12	5.62	5.65	4.34	5.47	5.90	4.16	3.85	5.16	5.26	6.03
8	5.18	5.23	5.38	5.59	5.13	5.21	5.41	4.67	4.10	5.20	5.35	5.35
9	5.17	5.53	5.26	5.52	5.64	5.31	5.34	4.39	4.03	5.16	5.26	4.97
10	5.06	5.68	5.20	5.51	5.49	5.30	5.36	4.28	3.98	5.12	5.24	4.85
11	5.03	5.60	5.23	5.53	5.39	5.37	5.36	4.20	3.93	5.08	5.28	4.81
12	5.07	5.58	5.19	5.56	5.32	5.33	5.36	4.19	3.91	5.05	5.28	4.84
13	5.26	5.40	5.25	5.53	5.23	5.31	5.36	4.55	5.16	5.01	5.25	5.60
14	5.46	5.63	5.25	5.53	5.82	5.31	5.30	4.36	5.28	4.98	5.32	5.73
15	5.53	5.40	5.43	5.53	5.59	5.33	5.31	4.24	4.95	4.96	5.26	5.90
16	5.55	5.33	5.39	5.50	5.54	5.35	5.32	4.10	4.91	4.95	5.27	5.46
17	5.32	5.31	5.39	5.50	5.50	5.39	6.33	4.05	4.85	4.92	5.22	5.17
18	5.10	5.32	5.43	5.50	5.55	5.42	7.14	4.00	4.82	4.95	5.19	4.98
19	5.01	6.07	5.36	5.45	5.54	5.45	5.97	4.02	4.76	4.93	5.20	4.87
20	4.94	5.70	5.42	5.41	5.55	5.44	5.30	4.06	4.74	4.95	5.01	4.84
21	4.98	5.42	6.23	5.55	5.56	5.38	4.82	4.07	4.73	5.02	4.69	4.88
22	5.05	5.26	5.80	5.45	5.57	5.38	4.61	4.04	4.82	4.97	4.93	4.87
23	5.46	5.22	5.51	5.34	5.56	5.40	4.52	4.00	4.81	5.01	5.12	4.92
24	5.53	5.20	5.45	5.26	5.55	5.72	4.75	3.99	4.79	4.95	5.14	4.93
25	5.58	5.38	5.47	5.20	5.50	6.32	4.82	3.95	4.75	4.94	5.09	4.90
26	5.58	5.35	5.47	5.38	5.48	5.72	4.84	4.01	4.70	4.98	5.10	4.88
27	5.95	5.28	5.55	5.23	5.48	5.42	4.40	4.07	4.90	4.95	5.10	4.87
28	5.72	5.27	5.59	5.25	5.45	5.28	4.20	4.16	5.19	4.92	5.08	4.90
29	5.66	5.30	5.57	5.20	----	5.72	4.07	4.11	5.25	4.92	5.07	4.93
30	5.65	5.36	5.62	5.16	----	5.50	3.99	4.05	5.22	4.96	5.08	4.87
31	5.64	----	6.22	5.18	----	5.34	----	4.02	----	4.91	5.09	----
MAX	5.95	6.07	6.23	5.96	5.82	6.32	7.14	4.67	5.28	5.25	5.35	6.42
MIN	4.94	5.07	5.19	5.16	4.34	5.21	3.99	3.80	3.85	4.91	4.69	4.81

MISSISSIPPI RIVER DELTA

07381200 Bayou Lafourche at Valentine, La.

LOCATION.--Lat 29°35'35", long 90°28'25", on line between lots 96 and 98, T.17 S., R.20 E., Lafourche Parish, on upstream side of bridge on State Highway 308, at Valentine, 5.7 miles south of Lockport, and 5.2 miles upstream from Intracoastal Waterway.

PERIOD OF RECORD.--April 1966 to current year (elevations only).

GAGE.--Water-stage recorder. Datum of gage at mean sea level. Prior to Oct. 1, 1968, at datum 2.98 ft higher.

EXTREMES.--Current year: Maximum elevation, 3.33 ft Apr. 21; minimum, 0.63 ft Dec. 18.

Period of record: Maximum elevation, 3.33 ft Apr. 21, 1973; minimum, -0.18 ft Feb. 9, 1968 (present datum).

REMARKS.--Pumping plant at Donaldsonville pumps total flow of Bayou Lafourche from Mississippi River except for small amounts of storm drainage during freshets. Elevation affected by tide at all stages. Records of specific conductance for the water year 1973 are published in Part 2 of this report.

ELEVATION, IN FEET, AT 0800, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.85	1.81	.97	1.75	1.35	1.20	2.16	2.17	1.87	1.41	1.16	1.72
2	1.68	1.86	1.05	1.70	1.60	1.40	2.08	2.28	1.84	1.52	1.04	1.78
3	1.65	2.00	1.14	1.72	1.35	1.50	2.14	2.30	1.87	1.55	1.02	1.99
4	1.77	1.93	1.33	1.75	1.06	1.60	2.11	2.25	1.93	1.53	1.05	2.25
5	1.85	1.85	1.49	1.75	1.07	1.77	1.81	2.08	1.95	1.41	1.17	2.58
6	1.78	1.85	1.87	1.73	1.12	2.10	1.75	2.03	1.93	1.39	1.20	3.00
7	1.66	1.85	1.77	1.65	1.12	2.13	2.28	2.08	1.82	1.30	1.27	3.19
8	1.53	1.82	1.64	1.63	1.23	2.05	2.33	2.25	1.78	1.31	1.30	3.02
9	1.50	1.70	1.67	1.30	1.55	2.25	2.21	2.23	1.85	1.26	1.31	2.87
10	1.53	1.72	1.66	1.10	1.19	2.22	1.98	2.12	1.78	1.09	1.25	2.77
11	1.62	1.65	1.60	1.05	.97	2.30	1.69	2.03	1.70	.88	1.28	2.60
12	1.71	1.53	1.54	.86	1.13	2.30	1.50	1.95	1.66	.80	1.37	2.46
13	1.72	1.64	1.60	.76	1.36	2.16	1.42	1.95	1.71	.82	1.38	2.34
14	1.72	1.85	1.38	.87	1.77	2.16	1.43	1.75	1.75	.97	1.43	2.50
15	1.65	1.59	1.50	.96	1.68	2.20	1.52	1.55	1.77	.98	1.43	2.44
16	1.60	1.38	1.13	1.01	1.55	2.26	1.82	1.40	1.80	1.01	1.51	2.25
17	1.55	1.40	.84	1.13	1.36	2.27	2.58	1.37	1.75	1.03	1.59	2.07
18	1.50	1.53	.74	1.32	1.25	2.01	3.15	1.37	1.68	1.02	1.52	1.92
19	1.54	1.94	.87	1.45	1.33	1.81	3.06	1.37	1.65	1.00	1.43	1.74
20	1.39	1.69	1.13	1.50	1.35	1.75	3.22	1.45	1.61	1.02	1.32	1.62
21	1.46	1.58	1.84	1.70	1.25	1.73	3.28	1.45	1.58	1.07	1.23	1.59
22	1.83	1.39	1.90	1.87	1.12	1.53	3.19	1.44	1.55	1.17	1.23	1.59
23	2.11	1.18	1.75	1.77	1.10	1.53	3.10	1.50	1.43	1.31	1.21	1.65
24	2.06	1.14	1.70	1.62	1.15	1.81	2.97	1.55	1.35	1.28	1.30	1.73
25	1.94	1.57	1.53	1.48	1.23	2.37	2.93	1.58	1.29	1.33	1.36	1.78
26	1.83	1.52	1.32	1.67	1.17	2.26	2.90	1.64	1.25	1.38	1.40	1.83
27	2.09	1.31	1.13	1.57	1.20	2.09	2.77	1.88	1.26	1.43	1.45	1.90
28	2.05	1.36	1.06	1.60	1.18	1.96	2.50	2.07	1.34	1.43	1.52	2.01
29	1.91	1.23	1.17	1.23	----	2.09	2.32	2.05	1.34	1.42	1.57	1.98
30	1.86	1.13	1.55	.95	----	2.16	2.15	1.94	1.30	1.33	1.56	2.08
31	1.83	----	1.83	1.00	----	2.27	----	1.85	----	1.33	1.61	----
MAX	2.11	2.00	1.90	1.87	1.77	2.37	3.28	2.30	1.95	1.55	1.61	3.19
MIN	1.39	1.13	.74	.76	.97	1.20	1.42	1.37	1.25	.80	1.02	1.59

MISSISSIPPI RIVER DELTA

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07381300 Bayou Lafourche at Golden Meadow, La.

LOCATION.--Lat 29°23'25", long 90°15'55", on line between lots 22 and 23, T.19 S., R.22 E., Lafourche Parish, near right bank on downstream side of first pile bent from right abutment of highway bridge connecting State Highways 1 and 308 at Golden Meadow.

PERIOD OF RECORD.--April 1959 to September 1968, February to July 1970, October 1970 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 3.40 ft below mean sea level (levels by Louisiana Department of Public Works). Prior to Feb. 10, 1970, at datum 3.40 ft higher.

EXTREMES.--Current year: Maximum gage height, 7.16 ft Sept. 6 (from recorded range in stage); minimum, not determined.
Period of Record: Maximum gage height, 8.13 ft Oct. 4, 1964, present datum; minimum, not determined.

REMARKS.--Gage height affected by tide at all stages.

GAGE HEIGHT, IN FEET, AT 0800, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.31	--	4.22	5.11	--	4.66	5.53	5.57	5.27	4.92	4.61	--
2	5.44	--	4.44	5.16	--	4.93	5.44	5.63	5.17	4.98	4.74	--
3	5.40	--	4.52	5.31	--	5.05	5.82	5.44	5.24	4.90	4.81	--
4	5.60	--	4.86	5.19	--	5.37	5.36	5.05	5.30	4.85	4.98	--
5	--	--	5.03	5.25	--	5.28	5.05	5.05	5.29	4.90	5.07	--
6	--	--	5.83	5.21	--	5.71	4.89	5.17	5.20	4.89	5.10	--
7	--	--	5.03	5.10	--	5.55	5.81	5.47	5.03	5.05	5.15	--
8	--	--	5.31	5.07	4.85	5.57	5.50	5.55	5.32	5.05	5.17	6.35
9	--	--	5.26	4.51	4.67	5.73	5.15	5.37	5.45	4.93	5.13	6.25
10	--	--	5.20	4.51	4.06	5.67	4.44	5.23	5.31	4.73	5.07	6.12
11	--	--	5.09	--	4.15	5.60	3.96	5.15	5.30	4.58	5.17	5.70
12	--	--	5.26	--	4.47	5.45	4.23	5.25	5.25	4.59	5.08	5.49
13	--	--	4.96	--	4.93	5.29	4.39	4.97	5.25	4.66	5.09	5.69
14	--	--	4.81	--	5.31	5.47	--	4.93	5.28	4.84	5.10	5.35
15	--	--	4.79	--	5.07	5.52	--	4.83	5.15	4.63	5.10	5.20
16	--	--	3.70	--	4.92	5.82	--	4.85	5.10	4.52	5.27	5.25
17	--	--	3.95	--	4.66	5.13	--	4.75	5.00	4.50	5.18	5.35
18	--	--	3.98	--	4.90	4.72	--	4.57	4.87	4.50	5.11	5.17
19	--	--	4.35	--	5.10	4.88	--	4.72	4.90	4.58	5.16	5.19
20	--	--	4.80	--	4.92	5.25	--	4.70	4.83	4.67	5.14	5.30
21	--	5.00	5.28	--	4.53	4.78	--	4.58	4.82	4.83	5.27	5.30
22	--	4.79	5.33	--	4.27	4.66	--	4.60	4.88	5.01	5.21	5.30
23	--	4.67	5.25	--	4.45	4.85	--	4.76	4.90	5.09	5.31	5.35
24	--	4.95	5.17	--	4.50	5.27	--	4.90	5.06	5.19	5.27	5.37
25	--	5.51	4.64	--	4.50	5.88	--	4.93	5.00	5.19	5.21	5.45
26	--	5.09	4.74	--	4.35	5.41	--	5.27	5.01	5.22	5.22	5.46
27	--	4.98	4.20	--	4.43	4.81	5.37	5.62	5.10	5.23	5.18	5.62
28	--	4.85	4.29	--	4.45	4.90	4.97	5.75	5.05	5.12	--	5.60
29	--	4.59	4.55	--	----	5.43	4.83	5.40	4.97	4.93	--	5.67
30	--	4.53	5.13	--	----	5.62	5.23	5.36	4.83	4.85	--	5.87
31	--	----	5.17	--	----	5.85	--	5.32	----	4.80	--	----
MAX	--	--	5.33	--	--	5.88	--	5.75	5.45	5.23	--	6.35
MIN	--	--	3.70	--	--	4.66	--	4.57	4.82	4.50	--	5.17

MISSISSIPPI RIVER DELTA

07381800 Spring Creek near Glenmora, La.

LOCATION.--Lat 31°00'10", long 92°34'10", in SE 1/4 sec. 4, T.1 S., R.2 W., Rapides Parish, Louisiana meridian, near right bank on downstream side of bridge on U. S. Highway 165, 0.2 mile upstream from Missouri Pacific Railroad Co. bridge, 2 miles north of Glenmora, and 7.9 miles upstream from mouth.

DRAINAGE AREA.--68.3 sq mi.

PERIOD OF RECORD.--Water years 1954-56 (annual maximum), March 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 63.28 ft above mean sea level (Louisiana Geodetic Survey bench mark). Oct. 23, 1953, to Mar. 6, 1956, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--17 years, 89.7 cfs (17.82 inches per year, 64,920 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 4,330 cfs Mar. 25 (gage height, 16.08 ft); minimum, 29 cfs Oct. 17 (gage height, 4.58 ft).

Period of record: Maximum discharge, 6,120 cfs Nov. 12, 1966 (gage height, 17.22 ft); minimum, 27 cfs Sept. 20, Oct. 4, 5, 6, 1970; minimum gage height, 4.55 ft Oct. 4, 5, 6, 1970.

Maximum stage since 1886, 20.5 ft in May 1953; flood of June 1886 was similar, from floodmarks and information by local residents.

REMARKS.--Records good. Records of water temperatures for the water year 1973 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 2120: 1961-62(M), 1964-65(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	32	58	51	90	531	64	90	79	76	58	68	48
2	32	58	51	96	598	64	85	305	70	59	68	47
3	32	55	51	124	172	64	83	1,130	67	61	58	50
4	31	54	113	124	104	113	80	678	66	57	55	62
5	31	52	145	97	88	101	77	164	68	123	52	237
6	32	51	512	116	81	94	79	120	73	100	52	336
7	32	51	212	171	76	257	558	412	67	67	52	146
8	32	50	97	359	137	204	420	1,050	64	61	51	94
9	31	50	83	258	348	104	196	582	64	58	53	82
10	31	50	88	117	252	92	113	187	180	56	62	73
11	30	49	232	98	117	99	97	117	122	55	52	67
12	30	49	192	92	93	139	89	110	142	54	55	78
13	30	145	203	88	123	88	84	101	449	53	54	115
14	30	144	114	84	550	77	80	93	140	52	52	121
15	30	76	208	81	325	74	79	88	160	54	52	106
16	30	60	254	78	136	478	161	85	138	60	50	71
17	30	54	114	74	102	926	481	84	101	55	55	63
18	30	71	82	70	90	286	1,300	82	83	54	58	58
19	30	163	76	68	84	120	754	80	75	52	51	56
20	30	102	181	66	79	99	187	78	132	52	48	54
21	30	69	1,040	118	76	86	128	76	323	55	48	52
22	351	60	855	214	74	82	109	74	99	55	47	52
23	2,200	56	208	106	74	92	100	73	78	56	46	52
24	450	55	120	80	71	1,300	93	74	130	52	46	52
25	87	64	95	73	69	2,980	91	84	68	69	46	52
26	77	60	84	91	68	922	97	76	66	124	46	51
27	172	56	76	122	66	184	88	72	64	145	49	50
28	105	57	73	132	65	129	84	70	62	69	50	50
29	73	55	70	123	-----	112	81	67	61	134	62	55
30	64	54	70	86	-----	102	78	67	60	123	51	57
31	60	-----	84	76	-----	98	-----	78	-----	66	50	-----
TOTAL	4,284	2,028	5,834	3,572	4,649	9,630	6,042	6,436	3,348	2,189	1,639	2,487
MEAN	138	67.6	188	115	166	311	201	208	112	70.6	52.9	82.9
MAX	2,200	163	1,040	359	598	2,980	1,300	1,130	449	145	68	336
MIN	30	49	51	66	65	64	77	67	60	52	46	47
CFSM	2.02	.99	2.75	1.68	2.43	4.55	2.94	3.05	1.64	1.03	.77	1.21
IN.	2.33	1.10	3.18	1.95	2.53	5.24	3.29	3.50	1.82	1.19	.89	1.35
AC-FT	8,500	4,020	11,570	7,090	9,220	19,100	11,950	12,770	6,640	4,340	3,250	4,930

CAL YR 1972	TOTAL	27,688	MEAN	75.7	MAX	2,200	MIN	30	CFSM	1.11	IN.	15.08	AC-FT	54,920
WTR YR 1973	TOTAL	52,138	MEAN	143	MAX	2,980	MIN	30	CFSM	2.09	IN.	28.39	AC-FT	103,400

PEAK DISCHARGE (BASE, 1,100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-23	0330	15.62	3,690	4-18	1115	13.69	1,360
12-21	1800	13.80	1,600	5- 3	2100	13.40	1,200
3-25	0230	16.08	4,330	5- 8	1315	13.36	1,180

MISSISSIPPI RIVER DELTA

89

07381950 Cocodrie Lake near Clearwater, La.

LOCATION.--Lat 31°00'00", long 92°22'57", in SE¼NE¼ sec.5, T.1 S., R.1 E., Louisiana meridian, Rapides Parish, 50 ft north of concrete spillway in center of drainage canal, 1,000 ft upstream from U.S. Highway 167, 0.9 miles downstream from Chicago, Rock Island and Pacific Railroad Co. bridge, 1.5 miles east of Clearwater, and 4.0 miles downstream from Hurricane Creek.

DRAINAGE AREA.--240 sq mi.

PERIOD OF RECORD.--September 1959 to September 1967 (gage heights only). September 1970 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 40.00 ft above mean Gulf level (datum of Corps of Engineers), and 39.57 ft above mean sea level (levels by Louisiana Department of Public Works).

EXTREMES.--Maximum and minimum gage heights for water years 1960-67; 1971-73 are contained in the following table:

Water year	Maximum		Minimum	
	Date	Gage Height (feet)	Date	Gage Height (feet)
1959a	Sept. 1, 1959	12.30	Sept. 30, 1959	11.85
1960	Dec. 19, 1959	14.00	July 12, 13, 15, 1960	11.55
1961	Apr. 1, 1961	18.79	Oct. 18, 1960	11.87
1962	Dec. 20, 1961	18.20	Aug. 22, 23, 24, 25, 1962	11.61
1963	Jan. 22, 1963	15.89	Sept. 12, 1963	11.69
1964	Apr. 19, 20, 1964	20.36	Nov. 4, 1964	11.74
1965	Mar. 4, 1965	17.72	Aug. 19-22, 23, 1965	11.72
1966	Apr. 28, 1966	18.12	Nov. 6, 1966	12.05
1967	May 6, 1967	17.10	(d)	12.30
1970b	Sept. 10-12, 13, 1970	11.91	Sept. 30, 1970	11.81
1971	Oct. 14, 1970	17.59	Oct. 11, 1970	11.77
1972	Dec. 8, 1971	20.09	--	(e)
1973	Mar. 26, 1973	20.64	--	(e)

a Period September 1-30.

b Period September 10-30.

c May have been less during periods of no gage-height record.

d Occurred during period Oct. 1-11, 1966.

e Less than 8.15 ft (lowest recordable stage) occurred Sept. 6-30, 1972.

f Less than 8.15 ft (lowest recordable stage) occurred Oct. 1-23, 1972.

Period of record: Maximum gage height, 20.64 ft Mar. 26, 1973; minimum not determined.

REMARKS.--Reservoir is formed on Bayou Cocodrie by earthfill dam, completed in 1959. Storage began Jan. 23, 1959. The dam contains a 100-foot concrete spillway. The crest of the dam is 51.44 ft above mean Gulf level (datum of Corps of Engineers) and 51.00 ft above mean sea level (levels by Louisiana Department of Public Works). Drawdown structure consists of one 48-inch pipe with a metal gate that can be varied from 41.44 to 45.44 ft above mean Gulf level and from 41.00 to 45.00 ft above mean sea level. Invert of pipe is 41.44 ft above mean Gulf level and 41.00 ft above mean sea level. Usable capacity, 11,000 acre-ft. Reservoir is used for recreation. Records for Bayou Cocodrie near Clearwater, La., are outflow of reservoir (see station 07382000).

GAGE HEIGHT, IN FEET, AT 0800, SEPTEMBER 1959

DAY	GAGE HEIGHT	DAY	GAGE HEIGHT	DAY	GAGE HEIGHT
1	12.30	11	12.07	21	11.93
2	12.26	12	12.06	22	11.92
3	12.21	13	12.05	23	11.91
4	12.18	14	12.04	24	11.89
5	12.16	15	12.03	25	11.87
6	12.13	16	12.01	26	11.87
7	12.09	17	11.99	27	11.87
8	12.07	18	11.97	28	11.87
9	12.04	19	11.96	29	11.86
10	12.09	20	11.94	30	11.85

MAXIMUM 12.30

MINIMUM 11.85

MISSISSIPPI RIVER DELTA

07381950 Cocodrie Lake near Clearwater, La.--Continued

GAGE HEIGHT, IN FEET, AT 0800, WATER YEAR OCTOBER 1959 TO SEPTEMBER 1960

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.86	11.97	11.91	12.56	12.41	12.70	12.38	12.03	11.80	11.71	11.73	11.99
2	11.86	11.98	11.92	12.57	12.36	12.71	12.35	12.02	11.79	11.70	11.74	11.97
3	11.87	11.98	11.92	12.62	12.32	12.86	12.35	12.01	11.78	11.68	11.76	11.95
4	11.87	11.98	11.92	12.66	12.52	13.19	12.34	12.00	11.78	11.67	11.83	11.92
5	11.87	12.01	11.92	12.66	12.82	13.39	12.33	12.02	11.78	11.66	11.84	11.90
6	11.91	12.00	11.93	12.90	12.95	13.32	12.30	12.06	11.77	11.64	11.83	11.89
7	11.90	12.00	11.92	13.29	12.94	13.19	12.27	12.12	11.77	11.63	11.84	11.88
8	11.90	11.99	11.92	13.56	12.87	13.06	12.25	12.16	11.77	11.61	11.84	11.86
9	11.89	11.98	11.92	13.54	12.79	12.95	12.22	12.19	11.77	11.60	11.84	11.84
10	11.89	11.96	11.92	13.42	12.72	12.86	12.19	12.18	11.77	11.59	11.83	11.83
11	11.88	11.96	11.93	13.27	12.64	12.78	12.15	12.15	11.76	11.58	11.83	11.90
12	11.88	11.95	12.05	13.10	12.57	12.69	12.12	12.11	11.74	11.56	11.84	11.89
13	11.89	11.95	12.07	12.98	12.56	12.69	12.10	12.08	11.74	11.56	11.83	11.88
14	11.99	11.95	12.08	12.88	12.52	12.57	12.08	12.05	11.79	11.58	11.83	11.86
15	12.01	11.96	12.09	12.80	12.48	12.60	12.06	12.03	11.78	11.57	11.86	11.85
16	12.01	11.96	12.53	12.74	12.55	12.63	12.05	12.01	11.78	11.64	11.85	11.84
17	12.01	11.95	12.75	12.82	12.63	12.67	12.04	11.99	11.77	11.65	11.87	11.83
18	11.99	11.94	13.72	12.98	12.75	12.68	12.01	11.99	11.76	11.80	11.87	11.81
19	11.97	11.94	13.99	13.32	12.78	12.65	12.00	11.97	11.75	11.84	11.93	11.80
20	11.95	11.93	13.96	13.40	12.80	12.59	11.98	11.96	11.73	11.83	12.01	11.79
21	11.95	11.92	13.81	13.31	12.82	12.58	11.98	11.95	11.72	11.83	12.04	11.79
22	11.94	11.92	13.62	13.16	12.86	12.48	11.97	11.94	11.71	11.81	12.06	11.78
23	11.93	11.92	13.46	13.00	12.96	12.44	11.95	11.92	11.70	11.80	12.07	11.76
24	11.92	11.94	13.30	12.88	13.02	12.47	11.95	11.91	11.68	11.80	12.09	11.75
25	11.91	11.93	13.13	12.82	12.99	12.47	11.94	11.89	11.69	11.79	12.09	11.75
26	11.90	11.92	12.98	12.73	12.92	12.47	11.97	11.88	11.72	11.78	12.08	11.88
27	11.91	11.94	12.88	12.66	12.89	12.47	11.96	11.86	11.72	11.77	12.08	11.96
28	11.90	11.93	12.79	12.60	12.85	12.46	11.95	11.86	11.72	11.75	12.06	12.01
29	11.90	11.92	12.69	12.54	12.78	12.45	11.94	11.84	11.70	11.73	12.04	12.02
30	11.90	11.91	12.62	12.48	-----	12.44	12.03	11.83	11.69	11.72	12.03	12.00
31	11.95	-----	12.56	12.44	-----	12.41	-----	11.83	-----	11.71	12.00	-----
MAX	12.01	12.01	13.99	13.56	13.02	13.39	12.38	12.19	11.80	11.84	12.09	12.02
MIN	11.86	11.91	11.91	12.44	12.32	12.41	11.94	11.83	11.68	11.56	11.73	11.75

GAGE HEIGHT, IN FEET, AT 0800, WATER YEAR OCTOBER 1960 TO SEPTEMBER 1961

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.98	12.93	11.95	14.72	15.31	--	18.79	13.04	12.05	13.11	14.39	12.22
2	11.96	13.44	11.94	15.14	15.11	--	18.73	12.93	12.04	12.97	14.31	12.20
3	11.94	12.86	11.93	15.19	14.95	--	18.51	12.84	12.01	12.86	14.12	12.19
4	11.93	12.77	11.93	15.06	14.72	--	18.28	12.76	12.00	12.78	13.91	12.18
5	11.94	12.69	11.92	14.83	14.52	--	18.05	12.69	11.98	12.70	13.71	12.16
6	12.00	12.59	12.02	14.69	13.34	--	17.83	12.61	11.96	12.63	13.49	12.14
7	--	12.51	12.05	14.74	14.29	--	17.61	12.55	11.94	12.56	13.28	12.12
8	--	12.44	12.10	15.89	14.20	--	17.38	12.49	11.93	12.51	13.09	12.14
9	--	12.38	12.30	16.96	14.12	--	17.24	12.48	11.92	12.49	13.00	12.13
10	--	12.32	12.45	17.35	13.99	--	17.05	12.43	11.91	12.49	12.89	12.10
11	--	12.28	12.66	17.32	13.84	--	16.87	12.38	11.98	13.05	12.80	12.10
12	11.93	12.23	12.79	17.15	13.66	--	16.74	12.34	12.07	14.84	12.71	12.43
13	11.91	12.19	12.84	17.15	13.49	--	16.59	12.30	12.14	15.38	12.62	13.05
14	11.92	12.16	12.81	17.41	13.30	--	16.43	12.26	12.23	15.42	12.55	13.95
15	11.91	12.14	12.81	17.56	13.13	--	16.24	12.27	12.29	14.29	12.56	14.63
16	11.89	12.12	12.79	17.49	13.00	--	16.02	12.24	12.29	15.11	12.56	14.74
17	11.89	12.09	12.80	17.31	12.97	--	15.80	12.21	12.30	14.99	12.53	14.60
18	11.88	12.10	12.77	17.10	14.18	--	15.59	12.18	12.31	14.79	12.50	14.40
19	11.98	12.04	12.70	16.91	15.34	--	15.34	12.15	12.35	14.59	12.46	14.19
20	12.03	12.07	12.65	16.68	15.70	--	15.13	12.12	12.63	14.36	12.31	13.98
21	12.08	12.05	12.59	16.45	15.70	--	14.92	12.09	12.92	14.14	12.39	13.77
22	12.09	12.04	12.52	16.23	--	--	14.72	12.07	13.09	13.93	12.38	13.55
23	12.07	12.06	12.47	16.01	--	--	14.52	12.05	13.06	13.74	12.43	13.34
24	12.05	12.06	12.41	15.80	--	--	14.32	12.11	12.95	13.54	12.40	13.15
25	12.03	12.05	12.37	15.92	--	--	14.12	12.12	12.84	13.48	12.38	12.99
26	12.02	12.04	12.33	16.13	--	--	13.92	12.12	13.44	13.34	12.34	12.88
27	12.03	12.02	12.29	16.17	--	--	13.74	12.14	13.68	13.21	12.30	12.78
28	12.01	12.01	12.36	16.06	--	--	13.55	12.14	13.65	13.05	12.31	12.69
29	12.03	11.99	12.58	15.91	-----	17.22	13.35	12.11	13.50	12.98	12.30	12.61
30	12.30	11.98	13.03	15.73	-----	17.81	13.17	12.09	13.31	13.44	12.29	12.54
31	12.66	-----	13.90	15.55	-----	18.51	-----	12.08	-----	14.09	12.26	-----
MAX	12.66	13.44	13.90	17.56	--	18.51	18.79	13.04	13.68	15.42	14.39	14.74
MIN	11.88	11.98	11.92	14.69	12.97	--	13.17	12.05	11.91	12.49	12.26	12.10

07381950 Cocodrie Lake near Clearwater, La.--Continued

GAGE HEIGHT, IN FEET, AT 0800, WATER YEAR OCTOBER 1961 TO SEPTEMBER 1962

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.48	11.93	12.59	15.61	--	12.58	12.78	13.74	12.21	12.55	11.87	12.71
2	12.47	11.93	12.54	15.40	--	12.55	12.97	13.82	12.28	12.55	11.85	12.67
3	12.44	12.05	12.49	15.18	--	12.52	12.98	13.89	12.29	12.58	11.84	12.58
4	12.40	12.08	12.44	14.99	--	12.50	12.90	13.78	12.39	12.55	11.83	12.51
5	12.35	12.11	12.40	15.10	--	12.47	12.85	13.60	12.44	12.50	11.82	12.49
6	12.31	12.10	12.39	15.28	--	12.43	12.21	13.40	12.50	12.45	11.81	12.41
7	12.28	12.09	12.37	15.43	--	12.39	13.57	13.26	12.49	12.39	11.80	12.41
8	12.24	12.09	12.34	15.34	--	12.36	13.71	13.04	12.45	12.34	11.79	12.42
9	12.20	12.07	12.39	15.17	--	12.34	13.60	12.92	12.39	12.29	11.78	12.50
10	12.18	12.06	12.53	15.05	--	12.31	13.45	12.81	12.35	12.25	11.75	12.52
11	12.14	12.05	12.64	14.88	--	12.32	13.29	12.73	12.31	12.21	11.76	12.50
12	12.11	12.07	12.90	14.64	--	12.30	13.45	12.64	12.28	12.17	11.74	12.47
13	12.09	12.31	13.10	14.45	12.93	12.28	13.69	12.52	12.25	12.13	11.73	12.42
14	12.07	12.70	14.24	14.29	12.84	12.24	13.84	12.50	12.24	12.09	11.73	12.37
15	12.05	13.18	14.41	14.40	12.79	12.32	13.74	12.44	12.26	12.08	11.72	12.33
16	12.03	13.40	14.44	14.69	12.87	12.38	13.56	12.39	12.25	12.05	11.70	12.29
17	12.01	13.39	14.66	14.84	12.98	12.43	13.37	12.34	12.22	12.02	11.69	12.25
18	12.00	13.31	16.80	14.79	13.01	12.43	13.19	12.29	12.21	11.99	11.68	12.21
19	11.99	13.18	18.00	15.06	12.97	12.41	13.04	12.26	12.29	11.98	11.67	12.17
20	11.98	12.99	18.19	15.31	12.89	12.39	12.92	12.22	12.57	11.96	11.66	12.14
21	11.97	12.92	18.05	15.36	12.85	12.39	12.82	12.18	12.74	11.94	11.65	12.10
22	11.96	12.83	17.85	15.26	12.81	12.35	12.74	12.16	12.76	11.92	11.63	12.07
23	11.95	12.89	17.64	15.09	12.78	12.33	12.66	12.14	12.70	12.00	11.61	12.05
24	11.95	12.96	17.41	14.94	12.75	12.30	12.60	12.11	12.63	11.99	11.62	12.02
25	11.94	13.03	17.18	14.78	12.72	12.31	12.56	12.19	12.56	11.98	11.63	12.01
26	11.93	12.99	16.96	--	12.68	12.29	12.51	12.07	12.49	11.95	11.69	11.99
27	11.93	12.90	16.76	--	12.64	12.27	12.46	12.04	12.44	11.93	11.70	11.97
28	11.93	12.82	16.54	--	12.61	12.25	12.96	12.53	12.38	11.91	11.71	11.96
29	11.93	12.74	16.27	--	-----	12.23	13.57	12.01	12.40	11.91	11.84	11.94
30	11.93	12.66	16.04	--	-----	12.21	13.64	12.14	12.47	11.90	12.20	11.93
31	11.93	-----	15.83	--	-----	12.36	-----	12.12	-----	11.89	12.61	-----
MAX	12.48	13.40	18.19	15.61	--	12.58	13.84	13.89	12.76	12.58	12.61	12.71
MIN	11.93	11.93	12.34	--	12.61	12.21	12.21	12.01	12.21	11.89	11.61	11.93

GAGE HEIGHT, IN FEET, AT 0800, WATER YEAR OCTOBER 1962 TO SEPTEMBER 1963

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.95	12.01	12.30	15.16	14.21	12.99	12.09	11.94	11.91	12.05	12.11	11.75
2	11.95	12.01	12.28	15.00	14.05	12.95	12.08	11.93	11.90	12.15	12.07	11.74
3	11.95	11.99	12.25	14.87	13.89	12.94	12.06	11.93	11.89	12.17	12.05	11.73
4	11.94	11.98	12.22	14.80	13.70	12.90	12.04	11.93	11.90	12.17	12.01	11.72
5	11.93	11.97	12.19	14.68	13.53	12.85	12.03	11.92	11.99	12.19	11.99	11.71
6	11.92	11.96	12.17	14.51	13.35	12.85	12.06	11.92	11.88	12.16	11.97	11.75
7	11.92	11.95	12.14	14.32	13.17	12.85	12.06	11.93	11.87	12.15	11.95	11.75
8	11.92	11.95	12.13	14.14	13.01	12.83	12.06	11.94	11.86	12.13	11.93	11.75
9	11.92	11.94	12.10	13.94	12.90	12.77	12.05	11.93	11.85	12.10	11.92	11.74
10	11.93	11.94	12.08	13.76	12.80	12.71	12.05	11.92	11.83	12.07	11.92	11.72
11	11.93	11.94	12.07	13.56	12.70	12.67	12.04	11.92	11.81	12.04	11.90	11.70
12	11.92	11.94	12.05	13.40	12.66	12.62	12.02	11.90	11.80	12.03	11.89	11.70
13	11.91	11.92	12.04	13.24	12.60	12.57	12.01	11.90	11.79	12.00	11.87	11.70
14	11.91	11.92	12.03	13.08	12.54	12.53	12.00	11.88	11.80	11.98	11.86	11.76
15	11.91	11.92	12.02	12.95	12.48	12.51	11.98	11.88	11.79	11.95	11.86	11.80
16	11.92	11.92	12.01	12.87	12.43	12.48	11.95	11.87	11.77	11.94	11.85	11.80
17	11.95	11.92	12.00	12.78	12.39	12.44	11.96	11.86	11.77	11.92	11.83	11.82
18	11.95	11.94	12.00	13.05	12.39	12.42	11.95	11.90	11.79	11.90	11.82	11.91
19	11.94	11.94	12.00	13.77	12.65	12.39	11.95	11.90	11.81	11.91	11.81	11.94
20	11.94	12.05	12.00	15.11	13.04	12.35	11.95	11.96	11.85	11.91	11.81	11.94
21	12.02	12.24	12.47	15.76	12.27	12.32	11.95	11.99	11.87	11.90	11.80	11.95
22	12.06	12.35	12.97	15.89	13.23	12.28	11.95	12.00	11.87	11.88	11.84	11.95
23	12.08	12.39	13.05	15.81	13.11	12.25	11.94	12.00	11.87	11.86	11.84	11.94
24	12.06	12.39	13.38	15.62	13.12	12.23	11.93	11.99	11.87	12.03	11.83	11.92
25	12.05	12.35	14.21	15.43	13.18	12.19	11.92	11.98	11.89	12.10	11.81	11.92
26	12.03	12.32	14.88	15.24	13.22	12.18	11.93	11.97	11.88	12.15	11.80	11.91
27	12.01	12.32	14.91	15.11	13.15	12.16	11.93	11.96	11.87	12.17	11.79	11.90
28	12.00	12.32	14.80	14.86	13.04	12.14	11.93	11.95	11.86	12.16	11.77	11.91
29	11.99	12.33	15.06	14.67	-----	12.13	11.93	11.95	11.85	12.14	11.76	11.91
30	12.02	12.33	15.28	14.52	-----	12.12	11.95	11.94	11.94	12.14	11.77	11.90
31	12.02	-----	15.29	14.36	-----	12.10	-----	11.92	-----	12.14	11.76	-----
MAX	12.08	12.39	15.29	15.89	14.21	12.99	12.09	12.00	11.99	12.19	12.11	11.95
MIN	11.91	11.92	12.00	12.78	12.27	12.10	11.92	11.86	11.77	11.86	11.76	11.70

MISSISSIPPI RIVER DELTA

07381950--Cocodrie Lake near Clearwater, La.--Continued

GAGE HEIGHT, IN FEET, AT 0800, WATER YEAR OCTOBER 1963 TO SEPTEMBER 1964

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.90	11.76	12.15	12.29	12.76	12.54	12.98	--	12.56	11.90	12.24	12.03
2	11.88	11.75	12.16	12.25	12.68	13.92	12.87	--	12.50	11.92	12.21	12.02
3	11.87	11.75	12.18	12.21	12.62	16.80	12.77	--	12.43	12.07	12.18	12.01
4	11.87	11.75	12.18	12.27	12.54	17.85	12.68	--	12.37	12.11	12.16	11.99
5	11.87	11.98	12.18	12.31	12.55	17.95	12.62	--	12.32	12.11	12.14	11.98
6	11.87	12.05	12.16	12.40	12.53	17.80	12.58	--	12.27	12.08	12.13	11.97
7	11.88	12.13	12.15	12.47	12.54	17.59	12.55	--	12.23	12.06	12.13	11.97
8	11.88	12.14	12.14	12.55	12.51	17.37	12.51	--	12.18	12.03	12.12	11.97
9	11.88	12.16	12.12	12.61	12.47	17.15	12.47	--	12.15	12.00	12.10	11.96
10	11.86	12.15	12.10	12.61	12.43	16.94	12.43	--	12.11	11.97	12.09	11.95
11	11.86	12.12	12.09	12.60	12.37	16.71	12.38	--	12.08	11.95	12.08	11.94
12	11.85	12.10	12.18	12.60	12.34	16.47	12.35	--	12.05	11.94	12.06	11.94
13	11.85	12.07	12.30	12.55	12.31	16.22	12.42	--	12.02	11.92	12.05	11.93
14	11.84	12.05	12.44	12.49	12.28	15.97	12.59	--	12.02	11.90	12.04	11.91
15	11.83	12.02	12.59	12.45	12.30	15.75	12.85	--	12.02	11.87	12.07	11.90
16	11.83	12.00	12.68	12.46	12.28	15.55	12.91	--	12.01	11.86	12.12	11.90
17	11.82	11.99	12.67	12.68	12.27	15.32	12.85	--	12.00	11.85	12.13	11.90
18	11.82	11.97	12.63	13.04	12.31	15.19	15.35	--	11.98	11.86	12.12	11.93
19	11.81	11.96	12.57	13.38	12.35	15.07	20.18	14.38	11.96	11.85	12.14	11.95
20	11.80	11.95	12.50	13.39	12.38	15.10	20.33	14.14	11.94	11.87	12.15	11.96
21	11.80	11.95	12.56	13.25	12.38	15.11	20.07	13.90	11.92	11.86	12.16	11.96
22	11.80	11.94	12.63	13.11	12.36	14.97	--	13.67	11.90	11.85	12.15	11.96
23	11.79	11.98	12.69	12.98	12.33	14.79	--	13.44	11.88	11.84	12.14	11.96
24	11.79	11.98	12.67	12.89	12.30	14.59	--	13.27	11.94	11.91	12.13	11.95
25	11.79	11.97	12.63	13.02	12.36	14.40	--	13.05	11.95	11.96	12.11	11.95
26	11.78	11.96	12.57	13.15	12.47	14.17	--	12.92	11.95	11.96	12.10	11.94
27	11.78	11.95	12.52	13.25	12.59	13.95	--	12.80	11.94	11.94	12.08	11.94
28	11.78	11.06	12.46	13.16	12.61	13.75	--	12.70	11.92	11.94	12.07	11.99
29	11.77	12.11	12.42	13.04	12.59	13.54	--	12.64	11.91	12.07	12.05	12.07
30	11.76	12.14	12.37	12.92	-----	13.33	--	12.57	11.90	12.20	12.04	12.16
31	11.76	-----	12.32	12.85	-----	13.14	-----	12.59	-----	12.25	12.02	-----
MAX	11.90	12.16	12.69	13.39	12.76	17.95	20.33	--	12.56	12.25	12.24	12.16
MIN	11.76	11.75	12.09	12.21	12.27	12.54	--	--	11.90	11.84	12.02	11.90

GAGE HEIGHT, IN FEET, AT 0800, WATER YEAR OCTOBER 1964 TO SEPTEMBER 1965

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.21	12.14	13.61	14.69	12.55	14.07	12.63	12.24	12.10	11.91	11.80	--
2	12.23	12.14	13.44	14.47	12.54	15.74	12.63	12.23	12.10	11.90	11.80	--
3	12.23	12.13	13.27	14.29	12.53	17.64	12.63	12.22	12.09	11.90	11.80	--
4	12.32	12.13	13.15	14.12	12.53	17.69	12.63	12.20	12.08	11.89	11.79	11.77
5	12.32	12.13	13.00	13.95	12.51	17.49	12.62	12.18	12.07	11.89	11.78	11.77
6	12.31	12.13	12.90	13.77	12.49	17.26	12.59	12.16	12.07	11.88	11.77	11.78
7	12.31	12.12	12.81	13.57	12.48	17.02	12.58	12.14	12.06	11.87	11.77	11.77
8	12.30	12.12	12.71	13.38	12.46	16.77	12.56	12.12	12.06	11.87	11.77	11.76
9	12.30	12.12	12.63	13.20	12.47	16.52	12.55	12.11	12.05	11.88	11.76	--
10	12.29	12.10	12.60	13.04	12.47	16.27	12.54	12.10	12.05	11.88	11.76	--
11	12.28	12.10	16.30	12.91	12.47	16.06	12.53	12.08	12.04	11.87	11.75	--
12	12.27	12.10	18.62	12.81	12.84	15.83	12.48	12.07	12.04	11.87	11.75	--
13	12.27	12.10	18.86	12.72	13.27	15.61	12.44	12.06	12.03	11.86	11.75	--
14	12.26	12.10	18.67	12.64	13.37	15.37	12.40	12.05	12.02	11.85	11.75	--
15	12.26	12.10	18.43	12.63	13.30	15.14	12.38	12.05	12.01	11.85	11.74	--
16	12.25	12.09	18.18	12.61	13.14	14.89	12.36	12.04	12.01	11.85	11.74	--
17	12.24	12.09	17.94	12.57	13.04	14.67	12.35	12.03	12.01	11.84	11.74	--
18	12.24	12.09	17.78	12.54	12.94	14.44	12.34	12.02	12.00	11.84	11.74	--
19	12.21	12.08	17.62	12.52	12.87	14.19	12.33	12.01	11.99	11.83	11.73	--
20	12.20	12.10	17.42	12.49	12.80	13.96	12.32	12.00	11.98	11.83	11.72	--
21	12.19	12.09	17.20	12.48	12.72	13.72	12.31	12.00	11.97	11.82	11.72	--
22	12.18	12.09	16.97	12.47	12.64	13.50	12.30	11.99	11.97	11.82	11.72	--
23	12.17	12.08	16.75	12.47	12.62	13.30	12.30	11.99	11.96	11.81	11.72	--
24	12.17	12.08	16.52	12.50	12.62	13.11	12.30	11.98	11.95	11.80	11.75	--
25	12.16	12.08	16.29	12.60	12.77	12.97	12.29	11.98	11.95	11.80	11.76	--
26	12.16	12.08	16.05	12.63	12.87	12.87	12.28	11.97	11.95	11.80	--	--
27	12.16	12.08	15.86	12.62	12.90	12.80	12.27	11.97	11.94	11.79	--	--
28	12.16	12.51	15.57	12.60	12.85	12.72	12.27	11.96	11.93	11.79	--	--
29	12.16	13.19	15.33	12.59	-----	12.66	12.26	11.96	11.93	11.79	--	--
30	12.15	13.70	15.11	12.57	-----	12.64	12.25	12.04	11.92	11.82	--	--
31	12.15	-----	14.90	12.56	-----	12.64	-----	12.09	-----	11.81	--	-----
MAX	12.32	13.70	18.86	14.69	13.37	17.69	12.63	12.24	12.10	11.91	11.80	--
MIN	12.15	12.08	12.60	12.47	12.47	12.64	12.25	11.96	11.92	11.79	11.72	--

07381950 Cocodrie Lake near Clearwater, La.--Continued

GAGE HEIGHT, IN FEET, AT 0800, WATER YEAR OCTOBER 1965 TO SEPTEMBER 1966

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	--	--	--	12.95	14.91	--	12.42	17.64	12.62	12.35	12.11	--
2	--	--	--	12.85	14.75	--	12.41	17.47	12.61	12.34	12.10	--
3	--	--	--	12.84	14.60	--	12.40	17.30	12.60	12.33	12.10	--
4	--	12.06	--	12.83	14.42	14.64	12.40	17.14	12.59	12.32	12.27	--
5	--	12.06	--	12.89	14.22	14.44	12.37	16.93	12.59	12.32	12.58	--
6	12.22	12.05	--	12.93	14.03	14.22	12.36	16.75	12.58	12.33	12.75	--
7	--	12.06	--	12.98	13.83	13.99	12.35	16.57	12.57	12.32	12.73	--
8	--	12.06	--	12.98	13.62	13.77	12.34	16.39	12.56	12.31	12.65	--
9	--	12.06	12.08	12.90	13.42	13.56	12.34	16.18	12.55	12.30	--	--
10	--	12.06	12.07	12.82	13.89	13.37	12.33	15.93	12.55	12.30	--	--
11	--	12.06	12.07	12.74	14.65	13.17	12.32	15.71	12.54	12.29	--	--
12	--	12.09	12.09	12.66	15.84	13.03	12.31	15.47	12.53	12.28	--	--
13	--	12.10	12.09	12.63	16.78	12.93	12.31	15.32	12.53	12.27	--	--
14	--	12.11	12.12	12.62	17.07	12.84	12.34	15.14	12.52	12.27	--	--
15	--	12.11	12.18	12.65	17.07	12.76	12.38	14.94	12.52	12.26	--	--
16	--	12.11	12.26	12.85	--	12.69	12.39	14.74	12.51	12.55	--	--
17	--	12.17	12.28	13.08	--	12.65	12.39	14.53	12.51	12.24	--	--
18	--	--	12.38	13.13	--	12.64	12.48	14.30	12.51	12.23	--	--
19	--	--	13.24	13.03	--	12.63	12.48	14.07	12.50	12.22	--	--
20	--	--	14.56	13.09	--	12.60	12.48	13.85	12.50	12.21	--	--
21	--	--	14.91	13.18	--	12.55	12.97	13.74	12.49	12.20	--	--
22	--	--	14.91	13.45	--	12.53	14.09	13.55	12.49	12.19	--	--
23	--	--	14.73	13.54	--	12.50	14.85	13.38	12.46	12.18	--	--
24	--	--	14.55	13.59	--	12.48	14.91	13.20	12.44	12.17	--	--
25	--	--	14.35	14.21	--	12.47	14.93	13.05	12.42	12.16	--	--
26	--	--	14.13	14.81	--	12.46	15.84	12.92	12.40	12.15	--	--
27	--	--	13.91	15.15	--	12.45	17.73	12.87	12.39	12.14	--	--
28	--	--	13.70	15.11	--	12.45	18.12	12.77	12.38	12.13	--	--
29	--	--	13.48	15.08	-----	12.44	18.04	12.73	12.37	12.13	--	--
30	--	--	13.28	15.08	-----	12.44	17.87	12.64	12.36	12.13	--	--
31	--	-----	13.10	15.07	-----	12.43	-----	12.63	-----	12.12	--	-----
MAX	12.22	--	14.91	15.15	--	--	18.04	17.64	12.62	12.35	--	--
MIN	--	--	12.07	12.83	13.42	12.43	12.31	12.63	12.36	12.12	--	--

GAGE HEIGHT, IN FEET, AT 0800, WATER YEAR OCTOBER 1966 TO SEPTEMBER 1967

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	--	12.56	12.92	12.60	12.54	12.62	12.44	13.42	12.72	12.52	12.42	12.63
2	--	12.55	12.89	12.60	12.54	12.61	12.44	14.24	12.72	12.52	12.42	12.61
3	--	12.54	12.79	12.60	12.54	12.61	12.43	15.16	12.72	12.51	12.41	12.60
4	--	12.54	12.73	12.59	12.53	12.61	12.43	15.83	12.71	12.51	12.40	12.59
5	--	12.53	12.64	12.59	12.53	12.60	12.42	16.73	12.71	12.50	12.40	12.57
6	--	12.53	12.64	12.59	12.53	12.60	12.42	17.08	12.70	12.50	12.39	12.57
7	--	12.52	12.63	12.60	12.61	12.59	12.41	17.01	12.70	12.49	12.39	12.57
8	--	12.52	12.63	12.59	13.22	12.58	12.40	16.82	--	12.49	12.39	12.56
9	--	12.51	12.63	12.59	13.50	12.57	12.39	16.59	--	12.49	12.38	12.55
10	--	12.51	12.63	12.59	13.44	12.57	12.39	16.35	--	12.49	12.38	12.54
11	--	12.51	12.74	12.58	13.30	12.57	12.38	16.11	--	12.48	12.39	12.52
12	12.32	13.74	12.78	12.57	13.16	12.56	12.39	15.86	--	12.48	12.38	12.51
13	12.33	15.97	12.78	12.57	13.04	12.55	12.38	15.62	--	12.47	12.37	12.50
14	12.33	16.26	12.77	12.57	12.94	12.54	12.46	15.37	12.62	12.47	12.37	12.49
15	12.45	16.11	12.73	12.57	12.86	12.53	12.46	15.22	12.62	12.46	12.36	12.48
16	12.49	15.90	12.70	12.57	12.77	12.51	15.55	14.95	12.61	12.45	12.36	12.47
17	12.54	15.69	12.66	12.57	12.69	12.50	16.31	14.72	12.60	12.45	12.36	12.46
18	12.57	15.47	12.64	12.57	12.63	12.49	16.34	14.49	12.59	12.45	12.36	12.45
19	12.64	15.25	12.63	12.57	12.61	12.48	16.14	14.25	12.58	12.45	12.35	12.44
20	12.65	15.06	12.63	12.56	12.64	12.47	15.91	14.00	12.58	12.45	12.35	12.44
21	12.63	14.83	12.63	12.56	12.68	12.47	15.69	13.80	12.58	12.45	12.35	12.43
22	12.62	14.63	12.63	12.56	12.81	12.46	15.45	13.60	12.57	12.45	12.34	12.42
23	12.61	14.40	12.63	12.56	12.86	12.46	15.22	13.42	12.57	12.45	12.34	12.41
24	12.60	14.17	12.62	12.56	12.81	12.45	14.95	13.34	12.56	12.45	12.34	12.39
25	12.59	13.96	12.62	12.56	12.74	12.45	14.71	13.20	12.56	12.45	12.33	12.38
26	12.59	13.76	12.62	12.56	12.66	12.45	14.48	13.16	12.55	12.45	12.33	12.37
27	12.58	13.58	12.61	12.56	12.63	12.45	14.25	13.03	12.55	12.44	12.33	12.36
28	12.57	13.39	12.61	12.56	12.62	12.45	14.00	12.97	12.54	12.44	12.67	12.35
29	12.56	13.19	12.61	12.55	-----	12.45	13.78	12.91	12.53	12.43	12.75	12.35
30	12.56	13.04	12.60	12.55	-----	12.45	13.55	12.77	12.53	12.43	12.76	12.34
31	12.56	-----	12.60	12.55	-----	12.44	-----	12.73	-----	12.43	12.67	-----
MAX	--	16.26	12.92	12.60	13.50	12.62	16.34	17.08	12.72	12.52	12.76	12.63
MIN	--	12.51	12.60	12.55	12.53	12.44	12.38	12.73	12.53	12.43	12.33	12.34

MISSISSIPPI RIVER DELTA

07381950 Cocodrie Lake near Clearwater, La.--Continued

GAGE HEIGHT, IN FEET, AT 0800, SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												11.91
11												11.91
12												11.91
13												11.91
14												11.90
15												11.89
16												11.88
17												11.88
18												11.88
19												11.87
20												11.86
21												11.86
22												11.85
23												11.84
24												11.83
25												11.83
26												11.84
27												11.84
28												11.83
29												11.82
30												11.82
31	-----				-----		-----		-----			-----
MAX												--
MIN												11.82

GAGE HEIGHT, IN FEET, AT 0800, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.81	16.17	12.78	--	12.68	14.71	13.92	12.97	13.35	12.96	12.69	12.53
2	11.81	15.95	--	--	12.67	14.61	13.76	12.96	13.34	12.95	12.69	12.52
3	11.80	15.72	--	--	12.67	14.93	13.58	12.95	13.33	12.94	12.69	12.51
4	11.80	15.49	--	--	12.66	15.38	13.39	12.94	13.32	12.93	12.68	12.51
5	11.79	15.26	--	--	12.66	15.44	13.37	12.93	13.31	12.92	12.68	12.50
6	11.79	15.04	--	--	12.65	15.31	13.34	12.92	13.29	12.91	12.68	12.49
7	11.78	14.79	--	--	12.64	15.15	13.32	13.03	13.28	12.91	12.68	12.49
8	11.78	14.58	--	--	12.64	14.94	13.30	13.92	13.26	12.90	12.67	12.48
9	11.78	14.40	--	--	12.63	14.74	13.28	14.07	13.25	12.89	12.67	12.48
10	11.78	14.18	--	--	12.62	14.57	13.27	13.95	13.23	12.88	12.67	12.48
11	11.77	13.96	--	--	12.61	14.37	13.25	13.87	13.22	12.87	12.67	12.47
12	12.51	13.75	--	12.80	12.62	14.16	13.23	14.54	13.20	12.86	12.66	12.47
13	16.49	13.53	--	12.79	12.96	13.98	13.21	15.56	13.18	12.85	12.66	12.46
14	17.57	13.71	--	12.79	13.49	13.79	13.19	16.00	13.17	12.84	12.65	12.45
15	17.52	13.83	--	--	13.57	13.59	--	15.95	13.15	12.82	12.65	12.44
16	17.31	13.86	--	--	13.47	13.39	--	15.75	13.14	12.81	12.64	12.44
17	17.07	13.74	--	--	13.33	13.31	--	15.53	13.12	12.80	12.64	12.46
18	16.83	13.57	--	--	13.21	13.22	--	15.30	13.11	12.79	12.63	12.46
19	16.62	13.38	--	--	13.19	13.22	--	15.08	13.10	12.78	12.62	12.46
20	16.37	13.36	--	--	13.15	13.82	13.07	14.80	13.09	12.77	12.62	12.46
21	16.12	13.33	--	12.75	13.13	13.85	13.05	14.79	13.07	12.77	12.61	12.46
22	15.87	13.31	--	12.75	13.12	13.74	13.04	14.61	13.06	12.76	12.60	12.62
23	15.64	13.22	--	12.75	13.10	13.57	13.03	14.40	13.05	12.75	12.59	12.62
24	15.52	13.16	--	12.74	13.09	13.40	13.02	14.17	13.04	12.75	12.59	12.61
25	15.32	13.10	--	12.74	13.08	13.35	13.01	14.00	13.02	12.75	12.58	12.60
26	15.12	13.04	--	12.73	13.07	13.28	13.00	13.78	13.00	12.74	12.57	12.59
27	14.88	12.97	--	12.72	13.75	13.25	12.99	13.58	12.99	12.73	12.57	12.58
28	15.90	12.92	--	12.71	14.62	13.23	12.99	13.44	12.99	12.72	12.56	12.58
29	16.57	12.87	--	12.71	-----	13.22	12.99	13.40	12.97	12.71	12.55	12.57
30	16.57	12.83	--	12.70	-----	13.51	12.98	13.39	12.96	12.70	12.54	12.55
31	16.39	-----	--	12.70	-----	13.91	-----	13.37	-----	12.70	12.54	-----
MAX	17.57	16.17	--	--	14.62	15.44	13.92	16.00	13.35	12.96	12.69	12.62
MIN	11.77	12.83	--	12.70	12.61	13.22	12.98	12.92	12.96	12.70	12.54	12.44

MISSISSIPPI RIVER DELTA

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07381950 Cocodrie Lake near Clearwater, La.--Continued

GAGE HEIGHT, IN FEET, AT 0800, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.54	12.27	12.10	15.74	--	13.07	12.98	12.75	12.54	--	--	8.62
2	12.53	12.27	12.36	15.62	--	13.06	12.97	12.74	12.53	--	--	8.51
3	12.52	12.26	13.35	15.51	--	13.06	12.96	12.73	12.52	--	--	8.44
4	12.51	12.24	14.50	15.52	--	13.06	12.95	12.73	12.51	--	--	8.34
5	12.50	12.24	14.82	15.70	--	13.13	12.95	12.72	12.49	--	--	8.24
6	12.49	12.22	17.26	15.89	--	13.14	12.94	12.71	12.48	--	--	--
7	12.48	12.22	19.70	15.85	--	13.13	12.94	12.71	12.47	--	--	--
8	12.46	12.20	20.09	15.68	--	13.13	12.93	12.71	12.46	--	--	--
9	12.45	12.20	19.97	15.52	--	13.12	12.91	12.70	--	--	--	--
10	12.44	12.19	19.74	16.02	--	13.12	12.90	12.69	--	--	--	--
11	12.42	12.19	19.47	16.34	--	13.11	12.90	12.69	--	--	--	--
12	12.41	12.18	19.22	16.41	--	13.10	12.88	12.68	--	--	--	--
13	12.40	12.17	18.99	16.29	--	13.09	12.87	12.68	--	--	--	--
14	12.39	12.17	18.76	16.07	--	13.09	12.86	12.68	--	--	--	--
15	12.39	12.17	18.64	15.85	--	13.08	12.86	12.68	--	--	--	--
16	12.39	12.16	18.46	15.65	--	13.07	12.85	--	--	--	--	--
17	12.39	12.16	18.35	--	--	13.06	12.84	--	--	--	--	--
18	12.38	12.16	18.43	--	--	13.05	12.83	--	--	--	--	--
19	12.38	12.15	18.38	--	--	13.04	12.82	--	--	--	--	--
20	12.37	12.15	18.25	--	--	13.04	12.81	--	--	--	--	--
21	12.37	12.14	18.09	--	--	13.05	12.80	--	--	--	--	--
22	12.36	12.14	17.89	--	--	13.05	12.81	--	--	--	9.35	--
23	12.35	12.13	17.68	--	--	13.04	12.80	--	--	--	9.26	--
24	12.35	12.13	17.47	--	--	13.04	12.79	--	--	--	9.16	--
25	12.34	12.12	17.25	--	13.09	13.03	12.78	--	--	--	9.12	--
26	12.33	12.12	17.04	--	13.09	13.03	12.77	12.60	--	--	9.11	--
27	12.32	12.12	16.82	--	13.08	13.02	12.76	12.59	--	--	9.05	--
28	12.32	12.11	16.59	--	13.07	13.01	12.76	12.58	--	--	8.98	--
29	12.31	12.11	16.37	--	13.06	13.01	12.76	12.57	--	--	8.89	--
30	12.29	12.11	16.15	--	-----	13.00	12.75	12.56	--	--	8.80	--
31	12.28	-----	15.91	--	-----	12.99	-----	12.55	-----	--	8.70	-----
MAX	12.54	12.27	20.09	--	--	13.14	12.98	12.75	12.54	--	--	8.62
MIN	12.28	12.11	12.10	--	13.06	12.99	12.75	12.55	--	--	8.70	--

NOTE.--Gage height was below 8.15 ft (lowest recordable stage) Sept. 6-30.

MISSISSIPPI RIVER DELTA

07381950 Cocodrie Lake near Clearwater, La.--Continued

GAGE HEIGHT, IN FEET, AT 0800, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	--	12.21	12.23	14.57	13.50	--	19.16	17.05	14.28	12.25	12.26	11.37
2	--	12.27	12.19	14.55	13.95	--	18.90	17.02	14.08	12.17	12.28	11.35
3	--	12.28	12.17	14.69	14.29	--	18.65	18.02	13.87	12.09	12.36	11.37
4	--	12.29	12.25	14.79	14.26	--	18.40	18.87	13.66	12.04	12.36	11.47
5	--	12.28	12.33	14.83	14.10	--	18.16	18.95	13.45	11.99	12.30	11.89
6	--	12.25	12.74	14.86	13.92	--	17.92	18.73	13.40	12.07	12.22	12.07
7	--	12.24	13.25	15.02	13.73	--	18.17	18.63	13.27	12.21	12.16	13.25
8	--	12.21	13.62	15.29	13.73	12.91	18.68	19.09	13.07	12.19	12.10	13.44
9	--	12.18	13.81	15.48	14.07	12.97	18.80	19.27	12.97	12.13	12.05	13.31
10	--	12.16	13.97	15.50	14.45	12.98	18.60	19.17	12.83	12.07	12.00	13.14
11	--	12.14	14.12	15.38	14.52	13.31	18.37	18.93	12.73	12.02	11.94	12.98
12	--	12.12	14.14	15.24	14.40	13.47	18.13	18.69	12.71	11.98	11.90	12.83
13	--	12.26	14.25	15.09	14.26	13.53	17.90	18.46	12.83	11.92	11.90	12.90
14	--	12.38	14.32	14.87	14.86	13.42	17.66	18.22	13.15	11.87	11.91	13.18
15	--	12.51	14.40	14.71	15.35	13.27	17.43	17.98	13.59	11.82	11.90	13.53
16	--	12.52	14.40	14.53	15.42	13.84	17.29	17.75	13.83	11.79	11.88	13.53
17	--	12.45	14.38	14.35	15.28	14.61	17.32	17.52	13.84	11.76	11.86	13.37
18	--	12.39	14.27	14.16	15.12	15.13	18.64	17.28	13.85	11.71	11.83	13.18
19	--	12.43	14.12	13.97	14.88	15.17	19.49	17.04	13.73	11.68	11.80	12.98
20	--	12.44	14.12	13.78	14.69	15.03	19.53	16.81	13.55	11.63	11.78	12.83
21	--	12.44	14.67	13.79	14.49	14.79	19.32	16.53	13.42	11.63	11.74	12.70
22	--	12.41	15.63	13.77	14.30	14.60	19.08	16.34	13.43	11.61	11.70	12.58
23	--	12.36	16.14	13.74	14.11	14.39	18.84	16.12	13.30	11.63	11.65	12.47
24	8.80	12.33	16.14	13.62	13.90	14.82	18.60	15.89	13.11	11.61	11.61	12.38
25	11.68	12.35	15.97	13.45	13.70	19.65	18.38	15.73	12.93	11.58	11.57	12.30
26	11.95	12.34	15.80	13.41	13.52	20.63	18.18	15.56	12.79	11.58	11.54	12.22
27	12.02	12.33	15.59	13.33	13.32	20.51	17.97	15.36	12.65	11.80	11.50	12.14
28	12.07	12.31	15.37	13.37	--	20.24	17.73	15.17	12.55	12.13	11.47	12.08
29	12.21	12.29	15.17	13.37	-----	19.94	17.50	14.89	12.44	12.25	11.46	12.04
30	12.25	12.26	14.94	13.32	-----	19.67	17.27	14.68	12.35	12.29	11.43	12.10
31	12.23	-----	14.76	13.18	-----	19.42	-----	14.47	-----	12.30	11.40	-----
MAX	12.25	12.52	16.14	15.50	15.42	20.63	19.53	19.27	14.28	12.30	12.36	13.53
MIN	--	12.12	12.17	13.18	13.32	--	17.27	14.47	12.35	11.58	11.40	11.35

NOTE.--Gage height was below 8.15 ft (lowest recordable stage) Oct. 1-23.

MISSISSIPPI RIVER DELTA

97

07382000 Bayou Cocodrie near Clearwater, La.

LOCATION.--Lat 31°00'00", long 92°22'46", in NW¼SW¼ sec.4, T.1 S., R.1 E., Louisiana meridian, Evangeline Parish, near right bank on downstream side of bridge on U. S. Highway 167, 1,000 ft downstream from Cocodrie Lake dam, 1.0 mile downstream from Chicago, Rock Island and Pacific Railroad Co. bridge, 1.5 miles east of Clearwater, 4 miles south of Meeker, and 5 miles downstream from Hurricane Creek.

DRAINAGE AREA.--240 sq mi.

PERIOD OF RECORD.--May 1922 to January 1925 (published as "near Meeker"), October 1937 to current year. Monthly discharge only for October 1937, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 40.00 ft above mean Gulf level (datum of Corps of Engineers), and 39.57 ft above mean sea level (levels by Louisiana Department of Public Works) May 1922 to January 1925, nonrecording gage 500 ft downstream at datum about 1.5 ft lower. October to December 1937, nonrecording gage at present site at datum 40.00 ft lower. Jan. 1, 1938, to Mar. 28, 1940, nonrecording gage at present site and datum. Since Jan. 23, 1945, auxiliary nonrecording gage 6.6 miles downstream at datum 35.10 ft above mean sea level (Louisiana Geodetic Survey bench mark).

AVERAGE DISCHARGE.--38 years (1922-24, 1937-73), 411 cfs (23.26 inches per year, 297,800 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,490 cfs, Mar. 26 (gage height, 20.49 ft); minimum, 78 cfs Oct. 22 (gage height, 5.34 ft).

Period of record: Maximum discharge, 28,200 cfs May 18, 1953 (gage height, 26.72 ft); reverse flow Nov. 13-15, 1922, probably caused by heavy rains in basin below station; minimum discharge unaffected by backwater or temporary diversion upstream, 50 cfs June 18, 1960.

REMARKS.--Records good. Slight regulation at low flow by Cocodrie Lake (see station No. 07382000). Records of water temperatures for the water year 1973 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1211: 1938, drainage area.

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	93	203	234	920	765	950	1,660	1,210	854	353	342	143
2	93	261	220	920	810	930	1,590	1,230	830	317	346	144
3	94	226	208	930	952	900	1,530	1,450	805	288	373	145
4	94	215	300	940	852	860	1,470	1,590	781	267	373	154
5	93	205	500	940	832	840	1,420	1,600	764	264	348	336
6	93	198	700	960	812	820	1,380	1,550	751	286	320	623
7	92	187	900	970	790	800	1,450	1,560	728	324	296	743
8	91	177	920	980	789	780	1,550	1,670	707	320	273	758
9	91	167	900	990	828	770	1,560	1,700	680	299	253	739
10	90	160	800	999	871	760	1,510	1,670	631	276	237	715
11	88	152	840	985	894	750	1,460	1,600	587	255	221	682
12	88	145	840	968	945	740	1,420	1,540	575	243	208	653
13	87	191	860	949	987	740	1,370	1,480	622	227	210	692
14	86	259	860	928	984	730	1,320	1,440	731	213	213	737
15	85	355	880	907	963	740	1,280	1,390	783	201	210	769
16	83	367	880	885	942	800	1,260	1,340	803	192	205	764
17	83	345	840	861	918	900	1,300	1,290	806	184	202	743
18	82	344	800	838	890	960	1,590	1,250	803	176	199	716
19	81	352	760	817	856	970	1,790	1,210	787	168	194	676
20	80	350	824	795	821	940	1,800	1,170	768	162	188	618
21	79	346	928	796	768	910	1,720	1,140	755	157	180	555
22	92	328	1,030	793	735	889	1,640	1,110	753	155	171	497
23	107	302	1,080	789	663	870	1,570	1,080	735	157	162	445
24	120	288	1,080	776	672	1,050	1,510	1,050	708	154	156	403
25	185	308	1,060	757	687	1,890	1,470	1,030	667	151	151	367
26	260	245	1,030	753	740	2,440	1,430	1,010	607	153	147	333
27	302	284	1,010	743	850	2,400	1,380	984	547	195	145	304
28	287	276	982	749	942	2,200	1,340	957	490	274	144	283
29	237	260	956	745	-----	2,020	1,290	931	439	324	145	275
30	214	248	936	739	-----	1,870	1,250	903	393	342	144	290
31	206	-----	930	723	-----	1,760	-----	878	-----	347	144	-----
TOTAL	3,856	7,795	25,088	26,845	23,458	34,979	44,310	40,013	20,890	7,424	5,900	15,302
MEAN	124	260	809	866	836	1,128	1,477	1,291	696	239	223	510
MAX	302	367	1,080	999	987	2,440	1,800	1,700	854	353	373	769
MIN	79	145	208	723	663	730	1,250	878	393	151	144	143
CF5M	.52	1.08	3.37	3.61	3.49	4.70	6.15	5.38	2.90	1.00	.93	2.13
IN.	.60	1.21	3.69	4.16	3.64	5.42	6.87	6.20	3.24	1.15	1.07	2.37
AC-FT	7,650	15,460	49,760	53,250	46,530	69,380	87,840	79,370	41,440	14,730	13,690	30,350
CAL YR 1972	TOTAL 129,870	MEAN 355	MAX 1,120	MIN 77	CF5M 1.48	IN 20.13	AC-FT 257,600					
WTR YR 1973	TOTAL 256,860	MEAN 704	MAX 2,440	MIN 74	CF5M 2.93	IN 39.81	AC-FT 509,500					

MISSISSIPPI RIVER DELTA

99

07383500 Bayou des Glaisses diversion channel at Moreauville, La.

LOCATION.--Lat 31°01'59", long 91°58'57", in NE¼ sec.29, T.1 N., R.5 E., Avoyelles Parish, near left bank on downstream side of bridge on State Highway 1 at Moreauville, and 150 ft downstream from point of diversion from Bayou des Glaisses.

DRAINAGE AREA.--270 sq mi (see REMARKS).

PERIOD OF RECORD.--July 1943 to current year.

GAGE.--Water-stage recorder. Datum of gage is 23.46 ft above mean sea level, (levels by Louisiana Department of Public Works). Prior to Oct. 31, 1950, nonrecording gage at same site. Prior to Sept. 30, 1961 at datum 4.84 ft higher.

AVERAGE DISCHARGE.--30 years, 423 cfs (306,500 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 4,080 cfs Mar. 25 (gage height, 19.03 ft); minimum, 2.7 cfs Oct. 13, 14, 15 (gage height, 1.83 ft).

Period of record: Maximum discharge, 6,340 cfs May 18, 1953 (gage height, 22.68 ft present datum); minimum, 2.7 cfs Oct. 13, 14, 15, 1973.

REMARKS.--Records good. Diversion channel carries natural flow of Bayou des Glaisses except when operation of floodgates, 12 miles downstream from point of diversion, regulates flow into or out of bayou depending on stage in Red River and Old River overflow area. Flow includes diversion from Bayou Boeuf into Chatlin Lake Canal and is occasionally affected by diversion into or out of Red River and Old River overflow area. Channel discharges into West Protection Levee borrow pit channel, 6 miles downstream. Records of water temperatures for the water year 1973 are published in Part 2 of this report. See following page for table of daily gage height.

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	4.7	460	153	1,050	1,000	323	1,720	1,610	948	167	90	37
2	4.3	737	104	1,110	930	217	1,670	1,660	904	146	88	58
3	4.1	696	75	1,190	882	160	1,630	2,500	862	131	93	55
4	3.9	619	83	1,150	897	485	1,570	2,180	823	115	85	76
5	3.7	542	395	1,080	892	659	1,510	1,880	787	115	68	239
6	3.5	401	1,290	1,180	858	743	1,430	1,780	755	191	57	1,100
7	3.3	265	988	1,250	812	1,030	2,240	2,160	714	232	50	1,030
8	3.2	176	858	1,330	899	780	2,050	2,370	671	180	50	1,050
9	3.1	123	863	1,200	1,280	763	1,710	2,040	622	122	54	975
10	3.0	96	914	1,160	1,040	763	1,600	1,930	566	87	62	977
11	2.9	70	945	1,130	995	840	1,540	1,890	491	70	66	997
12	2.9	52	993	1,100	984	840	1,500	1,870	428	65	59	1,020
13	2.8	313	1,150	1,050	1,160	850	1,450	1,850	392	66	50	1,180
14	2.8	678	1,070	1,010	2,210	836	1,400	1,830	377	66	43	1,160
15	2.9	617	1,220	952	1,580	799	1,350	1,790	446	60	39	1,090
16	3.0	589	1,140	897	1,290	850	1,890	1,760	521	54	36	1,040
17	3.1	496	1,080	841	1,220	884	2,670	1,710	528	49	32	979
18	3.1	337	1,040	789	1,170	909	3,820	1,660	521	44	31	914
19	3.0	327	1,000	736	1,120	961	3,120	1,610	497	52	34	853
20	3.0	464	1,010	685	1,050	1,020	2,440	1,560	416	52	32	792
21	3.1	437	1,730	902	990	1,030	2,100	1,500	351	44	31	731
22	2.1	324	1,480	882	925	1,020	1,960	1,440	396	39	28	659
23	157	217	1,300	851	867	990	1,900	1,370	363	36	24	560
24	562	145	1,280	851	807	2,340	1,870	1,320	292	36	22	428
25	621	387	1,280	829	751	3,810	2,000	1,270	244	65	21	321
26	661	521	1,290	911	695	2,930	2,030	1,220	211	61	21	232
27	731	407	1,280	853	617	2,220	1,950	1,170	223	44	20	128
28	695	339	1,250	877	489	1,930	1,820	1,120	224	83	19	148
29	663	309	1,190	831	-----	1,830	1,730	1,070	212	132	20	124
30	628	219	1,140	797	-----	1,780	1,660	1,030	193	126	22	93
31	577	-----	1,080	760	-----	1,750	-----	990	-----	113	32	-----
TOTAL	5,385.4	11,363	30,671	30,234	28,410	36,342	57,330	51,140	14,978	2,843	1,379	19,046
MEAN	174	379	989	975	1,015	1,172	1,911	1,650	499	91.7	44.5	635
MAX	731	737	1,730	1,330	2,210	3,810	3,820	2,500	948	232	93	1,180
MIN	2.8	52	75	685	489	160	1,350	990	193	36	19	37
AC-FT	10,680	22,540	60,840	59,970	56,350	72,080	113,700	101,400	29,710	5,640	2,740	37,780
CAL YR 1972	TOTAL	131,488.2	MEAN	359	MAX	1,730	MIN	2.8	AC-FT	260,800		
WTR YR 1973	TOTAL	289,121.4	MEAN	792	MAX	3,820	MIN	2.8	AC-FT	573,500		

MISSISSIPPI RIVER DELTA

07383500 Bayou des Glaives diversion channel at Moreauville, La.--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.06	6.99	4.99	10.73	10.47	6.34	13.80	13.39	10.18	5.13	4.53	3.60
2	2.02	8.74	4.51	11.09	10.08	5.55	13.64	13.61	9.93	4.94	4.49	3.94
3	2.01	8.72	4.17	11.48	9.80	5.06	13.46	16.05	9.68	4.79	4.53	3.90
4	2.00	8.24	4.25	11.32	9.89	7.33	13.25	15.24	9.45	4.63	4.42	4.01
5	2.00	7.77	6.75	10.92	9.86	8.49	12.98	14.33	9.24	4.63	4.18	5.52
6	2.00	6.86	12.01	11.43	9.66	8.92	12.69	14.00	9.04	5.31	4.01	11.00
7	2.00	5.91	10.39	11.80	9.39	10.60	15.33	15.10	8.81	5.67	3.87	10.62
8	2.00	5.21	9.66	12.22	9.86	9.20	14.86	15.73	8.56	5.24	3.86	10.77
9	2.00	4.71	9.69	11.55	11.93	9.10	13.76	14.84	8.27	4.70	3.91	10.33
10	1.99	4.41	9.99	11.34	10.69	9.10	13.35	14.49	7.92	4.32	4.00	10.34
11	1.99	4.10	10.16	11.20	10.44	9.55	13.13	14.36	7.45	4.11	4.05	10.45
12	1.99	3.86	10.43	10.99	10.38	9.55	12.96	14.29	7.05	4.04	3.96	10.56
13	1.90	6.06	11.30	10.77	11.19	9.61	12.76	14.22	6.81	4.05	3.82	11.47
14	1.84	8.60	10.88	10.50	15.32	9.53	12.54	14.15	6.71	4.05	3.71	11.36
15	1.85	8.24	11.66	10.20	13.27	9.31	12.30	14.04	7.16	3.97	3.63	10.98
16	1.87	8.06	11.27	9.89	11.98	9.60	14.23	13.92	7.64	3.88	3.57	10.67
17	1.88	7.48	10.93	9.56	11.63	9.81	16.34	13.77	7.68	3.80	3.50	10.35
18	1.88	6.44	10.71	9.25	11.41	9.96	18.60	13.59	7.64	3.73	3.48	9.99
19	1.87	6.37	10.47	8.94	11.11	10.25	17.31	13.40	7.49	3.86	3.47	9.63
20	1.86	7.28	10.51	8.64	10.76	10.56	15.91	13.19	6.97	3.85	3.50	9.27
21	1.88	7.11	13.83	9.91	10.41	10.63	15.02	12.96	6.54	3.72	3.48	8.91
22	2.50	6.35	12.86	9.80	10.05	10.55	14.59	12.69	6.84	3.63	3.40	8.49
23	4.14	5.55	12.05	9.62	9.71	10.41	14.39	12.40	6.62	3.58	3.32	7.88
24	7.68	4.93	11.93	9.62	9.36	15.17	14.29	12.13	6.12	3.58	3.26	7.05
25	8.07	6.75	11.97	9.49	9.03	18.59	14.74	11.88	5.76	4.05	3.24	6.28
26	8.32	7.64	11.99	9.96	8.70	16.91	14.83	11.64	5.50	4.04	3.22	5.50
27	8.74	6.91	11.94	9.63	8.24	15.33	14.58	11.39	5.60	3.81	3.19	4.51
28	8.52	6.46	11.78	9.77	7.44	14.51	14.14	11.11	5.61	4.35	3.18	4.71
29	8.33	6.23	11.52	9.50	-----	14.18	13.84	10.86	5.51	4.92	3.20	4.46
30	8.11	5.56	11.23	9.30	-----	14.01	13.60	10.61	5.35	4.88	3.26	4.11
31	7.78	-----	10.92	9.08	-----	13.91	-----	10.41	-----	4.77	3.50	-----
MAX	8.74	8.74	13.83	12.22	15.32	18.59	18.60	16.05	10.18	5.67	4.53	11.47
MIN	1.84	3.86	4.17	8.64	7.44	5.06	12.30	10.41	5.35	3.58	3.18	3.60

MISSISSIPPI RIVER DELTA

101

07384400 State Canal near Krotz Springs, La.

LOCATION.--Lat 30°33'55", long 91°49'55", in NW¼ sec.2, T.6 S., R.7 E., St. Landry Parish, at bridge on U.S. Highway 71, 1.7 miles upstream from Slow Bayou, 2.0 miles north of the junction of U.S. Highways 71 and 190 and 5.0 miles northwest of Krotz Springs.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Annual peaks, water years 1960-67, October 1967 to current year (gage height only).

GAGE.--Water-stage recorder. Datum of gage is 2.55 ft above mean sea level. Crest-stage gage prior to 1967 at present datum.

EXTREMES.--Current year: Maximum gage height, 20.64 ft May 27; minimum, not determined.
Period of record: Maximum gage height, 20.64 ft May 27, 1973; minimum, not determined.

GAGE HEIGHT, IN FEET, AT 0800, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	--	12.81	13.65	16.68	16.52	16.36	18.36	18.90	20.38	16.96	13.20	--
2	--	12.91	13.73	16.71	16.68	16.32	18.29	19.07	20.25	16.86	13.10	--
3	--	13.07	13.80	16.82	16.88	16.23	18.20	19.20	20.11	16.75	12.97	--
4	--	13.58	14.00	16.89	16.84	16.32	18.09	19.22	19.95	16.65	--	--
5	--	13.45	14.24	16.90	16.82	16.44	18.00	19.25	19.79	16.55	--	--
6	--	13.19	15.47	16.88	16.81	16.52	17.90	19.28	19.70	16.51	--	--
7	--	12.96	15.88	16.89	16.77	16.60	17.96	19.47	19.52	16.45	--	--
8	--	12.74	16.06	16.96	16.73	16.64	17.94	19.58	19.35	16.36	--	--
9	--	12.53	16.10	16.98	16.86	16.88	17.90	19.63	19.22	16.23	--	--
10	--	12.33	16.09	16.96	16.98	16.86	17.88	19.68	19.06	16.12	--	--
11	--	12.17	16.03	16.94	17.01	16.94	17.84	19.75	18.91	16.02	12.13	--
12	--	12.05	15.95	16.90	16.97	16.95	17.81	19.80	18.78	15.87	12.16	--
13	--	11.89	16.07	16.86	16.96	16.91	17.78	19.86	18.66	15.72	12.19	--
14	--	12.24	16.07	16.79	17.06	16.87	17.74	19.89	18.55	15.55	12.24	--
15	--	12.58	16.10	16.72	17.17	16.78	17.70	19.41	18.44	15.37	12.26	--
16	--	12.97	16.11	16.88	17.20	16.67	17.71	19.94	18.57	15.20	12.31	--
17	--	13.09	16.09	16.62	17.21	16.58	17.97	19.97	18.47	15.04	12.37	--
18	--	12.98	16.05	16.58	17.19	16.53	18.37	20.06	18.37	14.85	12.41	16.63
19	--	13.20	16.00	16.52	17.15	16.48	18.52	20.13	18.25	14.65	12.48	16.47
20	--	13.23	15.97	16.50	17.13	16.57	18.60	20.20	18.13	14.49	12.58	16.26
21	--	13.20	16.27	16.53	17.11	16.58	18.64	20.28	18.01	14.29	12.91	15.97
22	--	13.11	16.72	16.54	17.06	16.54	18.65	20.37	17.88	14.19	13.20	15.64
23	10.41	12.97	16.82	16.57	16.98	16.50	18.66	20.46	17.77	13.98	13.39	15.30
24	11.75	12.83	16.88	16.54	16.88	16.76	18.68	20.53	17.67	13.82	--	14.94
25	11.02	12.91	16.84	16.48	16.78	17.78	18.74	20.58	17.56	13.62	--	14.65
26	11.00	13.15	16.82	16.48	16.66	18.03	18.80	20.60	17.46	13.63	--	14.39
27	11.12	13.37	16.78	16.47	16.55	18.25	18.82	20.63	17.35	13.51	--	14.16
28	11.65	13.50	16.74	16.51	16.44	18.42	18.84	20.61	17.25	13.35	--	13.87
29	12.13	13.51	16.70	16.50	-----	18.47	18.87	20.55	17.15	13.50	--	13.66
30	12.49	13.57	16.65	16.47	-----	18.42	18.89	20.47	17.06	13.58	--	13.54
31	12.73	-----	16.69	16.41	-----	18.41	-----	20.37	-----	13.40	--	-----
MAX	--	13.58	16.88	16.98	17.21	18.47	18.87	20.63	20.38	16.96	--	--
MIN	--	11.89	13.65	16.41	16.44	16.23	17.70	18.90	17.06	13.35	--	--

MISSISSIPPI RIVER DELTA

07385500 Bayou Teche at Arnaudville, La.

LOCATION.--Lat 30°23'50", long. 91°55'50", in lot 63, T.7 S., R.5 E., Louisiana meridian, St. Landry Parish, near center of span on downstream side of bridge on State Highway 31 at Arnaudville, and 270 ft upstream from Bayou Fusilier.

DRAINAGE AREA.--1,531 sq mi (see REMARKS).

PERIOD OF RECORD.--April 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (Louisiana Geodetic Survey bench mark). Prior to May 11, 1949, non-recording gage. May 12, 1949, to May 11, 1960, water-stage recorder, May 26, 1960, to Aug. 15, 1961, nonrecording gage. All gages at same site and datum. Auxiliary water-stage recorder 3.7 miles upstream at same datum.

AVERAGE DISCHARGE.--24 years, 818 cfs (592,600 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,260 cfs Apr. 25; maximum elevation, 20.90 ft Mar. 25; minimum, 67 cfs Oct. 22; minimum elevation, 9.14 ft Oct. 20.

Period of record: Maximum discharge, 4,630 cfs May 24, 1953; maximum elevation, 24.27 ft May 23, 1953; minimum discharge, 53 cfs Aug. 12, 1965; minimum elevation, 6.78 ft Oct. 28, 1956.

REMARKS.--Records good. Bayou Teche heads in Bayou Courtableau at Port Barre. At high stages, considerable flow bypasses station via Bayou Courtableau at weirs near Krotz Springs. There is controlled diversion to or from Red River and Old River overflow area through Bayou des Glaisses floodgates and to or from West Atchafalaya floodway through Big Darbonne Bayou Culvert and since April 1956 through Bayou Courtableau Drainage Structure. Since April 1952, floodflow is diverted from Bayou Rapides (drainage area, 76.1 sq mi) into Bayou Boeuf when stages of Red River make it necessary to close gates at mouth of Bayou Rapides. Records of water temperatures for the water year 1973 are published in Part 2 of this report.

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	500	658	691	1,200	1,150	1,140	1,800	2,000	1,720	979	856	266
2	400	752	702	1,220	1,320	1,140	1,780	2,100	1,670	930	888	256
3	346	800	709	1,280	1,410	1,140	1,730	2,150	1,590	869	944	249
4	300	754	842	1,290	1,400	1,160	1,680	2,100	1,430	808	942	248
5	266	690	1,280	1,270	1,320	1,200	1,640	2,000	1,310	752	871	1,210
6	228	634	1,430	1,250	1,240	1,290	1,600	1,950	1,250	779	785	1,420
7	203	579	1,400	1,250	1,190	1,270	1,710	2,000	1,200	882	711	1,200
8	181	547	1,420	1,290	1,140	1,350	1,730	2,050	1,180	949	649	1,080
9	168	563	1,380	1,310	1,240	1,430	1,730	1,950	1,200	958	611	1,090
10	158	505	1,320	1,290	1,370	1,330	1,690	1,810	1,180	936	574	1,240
11	153	454	1,260	1,270	1,390	1,240	1,630	1,760	1,140	891	534	1,370
12	144	422	1,240	1,240	1,330	1,440	1,560	1,690	1,130	827	487	1,650
13	134	465	1,290	1,220	1,230	1,420	1,520	1,640	1,120	749	467	1,560
14	124	751	1,260	1,200	1,300	1,320	1,480	1,590	1,120	687	511	1,150
15	111	766	1,220	1,180	1,460	1,230	1,430	1,550	1,180	632	528	1,160
16	116	717	1,230	1,150	1,480	1,120	1,700	1,500	1,310	583	515	1,180
17	131	650	1,200	1,140	1,440	1,180	1,900	1,450	1,350	540	530	1,160
18	132	733	1,160	1,130	1,400	1,200	2,000	1,420	1,310	497	562	1,110
19	147	601	1,130	1,120	1,360	1,210	2,100	1,380	1,240	469	554	1,030
20	167	639	1,110	1,110	1,310	1,300	2,150	1,330	1,190	437	526	1,040
21	148	674	1,350	1,200	1,270	1,340	2,100	1,280	1,160	413	480	1,110
22	205	627	1,600	1,290	1,240	1,270	2,050	1,240	1,150	404	428	1,080
23	321	582	1,550	1,280	1,220	1,090	2,100	1,220	1,140	400	379	1,050
24	547	562	1,510	1,220	1,190	1,400	2,120	1,210	1,130	386	327	994
25	756	735	1,450	1,190	1,190	1,840	2,240	1,200	1,120	390	307	912
26	770	863	1,400	1,200	1,180	1,800	2,140	1,190	1,110	515	302	875
27	837	829	1,350	1,200	1,170	1,750	1,990	1,190	1,090	772	282	910
28	817	705	1,310	1,240	1,150	1,760	2,160	1,170	1,070	879	263	841
29	793	696	1,270	1,220	-----	1,770	2,110	1,170	1,060	943	258	902
30	753	691	1,220	1,200	-----	1,790	2,100	1,170	1,020	972	261	1,190
31	700	-----	1,230	1,170	-----	1,810	-----	1,270	-----	914	264	-----
TOTAL	10,756	19,644	38,514	37,820	36,090	42,730	55,670	48,730	36,870	22,142	16,596	30,533
MEAN	347	655	1,242	1,220	1,289	1,378	1,856	1,572	1,229	714	535	1,018
MAX	837	863	1,600	1,310	1,480	1,840	2,240	2,150	1,720	979	944	1,650
MIN	111	422	691	1,110	1,140	1,090	1,430	1,170	1,020	386	258	248
AC-FT	21,330	38,960	76,390	75,020	71,580	84,750	110,400	96,660	73,130	43,920	32,920	60,560
CAL YR 1972	TOTAL	249,024	MEAN	680	MAX	1,600	MIN	109	AC-FT	493,900		
WTR YR 1973	TOTAL	396,095	MEAN	1,085	MAX	2,240	MIN	111	AC-FT	785,700		

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LOCATION.--Lat 30°04'15", long 91°49'45", on line between lots 8 and 17, T.11 S., R.6 E., St. Martin Parish, on right bank of concrete lock and dam, 3.5 miles south of St. Martinville, and 11 miles upstream from Loreauville Canal.

PERIOD OF RECORD.--August 1959 to current year. Daily gage heights since July 1913 in reports of Corps of Engineers.

AVERAGE DISCHARGE.--14 years, 468 cfs (339,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 3,970 cfs Sept. 5 (gage height, 12.95 ft); minimum, 42 cfs Oct. 21 (gage height, 9.64 ft).
Period of record: Maximum discharge, 3,970 cfs Sept. 5, 1973; maximum gage height, 15.59 ft Oct. 4, 1964; minimum discharge, no flow Aug. 10-29, 1962, June 12-16, 1963, July 24, 1964, July 21, 1972.

REMARKS.--Records good. Bayou Teche heads in Bayou Courtableau at Port Barre. At high stages, considerable flow bypasses station via Bayou Courtableau at weirs near Krotz Springs. There is controlled diversion to or from Red River and Old River overflow area through Bayou des Glaisses floodgates and to or from West Atchafalaya floodway through Big Darbonne Bayou culvert and since April 1956 through Bayou Courtableau Drainage Structure. Since April 1952, floodflow is diverted from Bayou Rapides (drainage area, 76.1 sq mi) into Bayou Boeuf when stages of Red River make it necessary to close gates at mouth of Bayou Rapides. Dependent upon its gradient, Bayou Fusilier interchanges flow between Bayou Teche and Vermilion River. Water for irrigation is diverted through Ruth Canal (see station 07386700) into Vermilion River. Crest of dam raised from 8.0 ft to 9.5 ft in June 1957.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	323	458	474	810	1,060	733	1,340	1,000	850	474	562	224
2	309	499	466	780	1,170	760	1,240	1,040	971	458	517	218
3	295	562	482	840	1,100	760	1,160	1,320	930	418	508	242
4	274	571	562	850	1,000	1,030	1,090	1,340	830	370	526	442
5	254	526	982	830	910	1,070	1,050	1,290	733	354	517	2,320
6	230	482	1,400	820	840	1,000	1,030	1,230	670	378	499	3,310
7	200	458	1,300	820	790	930	1,260	1,450	625	418	490	2,630
8	190	410	1,230	880	810	1,110	1,190	1,460	589	426	410	1,890
9	170	402	1,130	860	1,090	1,420	1,150	1,380	697	442	346	1,580
10	160	418	1,000	840	1,100	1,360	1,090	1,300	643	442	309	1,510
11	155	378	890	850	1,040	1,400	1,040	1,200	580	418	267	1,370
12	150	346	830	830	940	1,260	1,000	1,130	553	378	248	1,620
13	120	580	900	800	870	1,080	971	1,080	544	330	248	1,940
14	125	742	910	780	940	930	940	1,030	535	288	362	1,820
15	125	715	993	760	993	810	910	993	589	260	362	1,560
16	105	607	900	742	982	810	1,200	950	706	230	535	1,410
17	88	535	830	724	940	790	1,800	900	810	218	450	1,260
18	84	715	780	724	910	770	2,320	760	742	254	330	1,110
19	92	940	742	715	870	770	1,940	706	670	236	295	960
20	64	800	770	688	850	810	1,860	679	616	248	267	800
21	57	616	1,200	751	810	870	1,750	634	571	242	254	733
22	80	490	1,180	830	790	820	1,620	598	544	248	224	733
23	362	434	1,200	840	780	860	1,500	580	535	224	195	733
24	450	410	1,130	810	770	2,160	1,370	562	535	200	175	706
25	458	580	1,030	780	760	2,770	1,290	544	526	185	160	652
26	508	589	940	830	751	2,130	1,190	526	517	260	150	607
27	589	598	880	820	751	2,000	1,130	535	490	378	190	616
28	580	607	850	860	733	1,910	1,090	544	482	458	236	670
29	553	508	810	850	-----	1,750	1,060	526	482	517	218	706
30	535	482	850	800	-----	1,580	1,040	517	482	562	212	742
31	499	-----	880	760	-----	1,450	-----	571	-----	535	218	-----
TOTAL	8,184	16,450	28,521	24,874	25,350	37,903	38,621	28,375	19,047	10,849	10,280	35,114
MEAN	264	548	920	802	905	1,223	1,287	915	635	350	332	1,170
MAX	589	940	1,400	880	1,170	2,770	2,320	1,460	971	562	562	3,310
MIN	57	346	466	688	733	733	910	517	482	185	150	218
AC-FT	16,230	32,630	56,570	49,340	50,280							

MISSISSIPPI RIVER DELTA

07386202 Bayou Fusilier at State Highway 93, near Arnaudville, La.

LOCATION.--Lat 30°24'26", long 92°58'41", on line between lots 37 and 43, T.7 S., R.5 E., Louisiana meridian, St. Landry-St. Martin Parish line, near center of span on downstream side of bridge on State Highway 93, 1.1 miles upstream from Bayou Bourbeau, and 2.8 miles west of water tower in Arnaudville.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--May 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Prior to Nov. 10, 1971, nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum elevation, 20.75 ft Mar. 25; minimum, 2.90 ft June 1.
 Period of record: Maximum elevation, 21.98 ft Dec. 7, 1971; minimum, not determined.

ELEVATION, IN FEET, AT 0800, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.40	7.27	7.72	--	12.25	9.13	15.98	11.41	2.99	8.39	8.04	5.04
2	6.08	9.15	7.67	--	15.77	9.44	14.71	12.72	4.01	8.19	7.93	5.01
3	5.82	9.88	7.71	--	14.52	10.78	13.51	16.13	5.71	8.01	8.08	5.01
4	5.60	8.59	7.79	--	12.61	14.46	12.70	16.08	6.85	7.75	8.15	5.23
5	5.38	7.84	9.88	--	11.14	15.23	12.20	14.95	7.74	7.50	8.00	13.00
6	5.16	7.43	16.66	--	10.38	13.54	11.87	13.53	6.63	8.43	7.80	14.53
7	4.95	7.18	16.78	--	9.87	12.81	14.97	14.68	8.12	8.20	7.39	18.91
8	4.76	6.89	15.97	--	9.64	11.41	15.18	17.29	8.66	8.23	7.29	18.67
9	4.63	6.83	14.38	--	14.70	17.21	13.76	16.87	5.30	8.24	6.89	18.01
10	4.51	6.78	12.47	--	14.77	17.12	12.54	15.76	--	8.17	6.67	17.27
11	4.42	6.46	11.04	--	13.39	16.83	11.87	14.20	--	7.99	6.44	16.76
12	4.38	6.23	10.25	--	11.67	16.07	11.42	12.64	--	7.75	6.23	16.39
13	4.28	6.12	13.66	--	10.63	14.43	11.08	12.77	--	7.46	6.05	18.27
14	4.14	13.50	12.64	--	14.05	12.26	10.81	11.80	9.00	7.17	6.54	18.46
15	4.06	11.137	12.34	--	13.51	10.79	10.57	11.18	8.92	6.93	8.59	17.95
16	3.97	8.97	12.04	--	11.87	--	10.44	10.77	11.07	6.71	6.80	17.12
17	3.90	7.97	10.68	--	11.00	10.29	17.41	10.48	12.59	6.54	6.81	16.16
18	3.83	7.51	9.95	--	10.58	9.89	19.82	10.54	10.71	6.34	6.79	14.88
19	3.82	14.71	9.57	--	10.31	9.68	20.05	10.50	9.85	6.15	6.61	13.15
20	3.71	13.41	9.34	--	10.07	12.60	19.57	9.99	9.46	6.27	6.46	11.58
21	3.69	10.49	14.58	--	9.82	11.93	18.81	9.72	9.23	7.01	6.25	10.87
22	3.79	8.52	16.06	--	9.65	10.41	18.03	9.51	9.05	5.91	6.01	10.47
23	13.07	7.71	--	--	9.55	9.83	17.16	9.35	8.99	6.25	5.75	10.07
24	10.81	7.28	--	10.16	9.48	16.74	16.16	9.25	8.91	5.85	5.52	10.01
25	8.56	10.18	--	9.75	9.39	20.62	14.94	9.19	8.86	6.24	5.38	9.39
26	7.90	11.07	--	11.45	9.32	20.74	13.74	9.16	8.78	7.57	5.28	8.82
27	10.67	9.65	--	11.24	9.25	20.22	12.89	9.17	8.71	7.58	5.50	8.48
28	9.82	8.67	--	12.95	9.19	19.42	12.38	9.18	8.63	7.96	5.19	8.33
29	8.44	8.28	--	12.04	-----	18.60	12.00	9.08	8.58	8.11	5.08	10.12
30	7.87	7.89	--	10.48	-----	17.78	11.69	9.02	8.48	10.87	5.02	12.11
31	7.55	-----	--	9.76	-----	16.98	-----	8.99	-----	8.70	5.03	-----
MAX	13.07	14.17	16.06	--	15.77	20.74	20.05	17.29	12.59	10.87	8.59	18.91
MIN	3.69	6.12	7.71	9.75	9.19	9.13	10.44	8.99	2.99	5.85	5.02	5.01

MISSISSIPPI RIVER DELTA

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07386700 Ruth Canal near Ruth, La.

LOCATION.--Lat 30°14'35", long 91°53'05", in NE¼NW¼ lot 95, T.9 S., R.6 E., St. Martin Parish, near center of span on downstream side of bridge on State Highway 31, 1,200 ft above control structure, 1,500 ft downstream from point of diversion from Bayou Teche, 0.4 mile northwest of Ruth, and 2.2 miles south of Breaux Bridge.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1959 to Current year. Gage heights only May 1949 to June 1946 (fragmentary), January 1947 to September 1960 in reports of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (Corps of Engineers bench mark). Auxiliary water-stage recorder 150 ft below control structure at same datum. Nov. 4, 1965, to July 11, 1973, auxiliary nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--14 years, 147 cfs (106,500 acre-ft per year).

EXTREMES.--Current year: Maximum daily discharge, 262 cfs May 31; minimum daily, 18 cfs Oct. 20, 21.

Period of record: Maximum daily discharge, 802 cfs Apr. 21, 1966; minimum daily, 18 cfs Sept. 3-5, Oct. 22 to Nov. 7, 1963, July 27-30, 1965, July 4-9, 1969, Oct. 20, 21, 1972.

REMARKS.--Records fair. Total flow through control structure diverted from Bayou Teche. Diversions are for irrigation.

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	23	25	25	30	31	28	36	33	209	257	150	21
2	23	25	25	30	33	29	36	33	226	255	150	21
3	22	26	26	31	33	28	36	36	233	254	152	22
4	22	26	26	31	32	31	35	36	246	249	151	24
5	22	26	31	30	30	32	33	36	234	251	149	35
6	21	25	36	30	30	32	33	35	238	237	149	42
7	21	25	35	30	29	31	34	37	250	244	147	42
8	21	24	3	31	29	33	35	38	251	252	145	40
9	20	24	33	31	32	36	34	37	237	255	145	38
10	20	24	32	31	32	36	34	36	241	256	144	37
11	20	24	31	31	32	36	33	35	243	255	142	36
12	20	23	30	30	31	34	32	34	246	255	140	37
13	20	26	31	30	30	33	32	33	247	249	140	40
14	20	28	31	30	31	31	32	32	249	248	141	40
15	19	28	32	30	32	30	31	32	255	247	141	38
16	19	26	31	29	31	30	33	32	251	246	142	37
17	19	26	30	29	31	29	34	94	247	185	140	35
18	19	27	30	29	31	29	35	249	246	145	140	33
19	19	31	29	29	30	29	35	236	253	145	141	31
20	18	30	29	29	30	30	35	253	253	141	142	30
21	18	27	33	30	29	30	35	254	251	139	141	29
22	19	25	34	30	29	30	35	253	256	142	141	29
23	24	25	34	30	29	29	35	254	257	138	138	28
24	25	24	34	30	29	35	35	252	257	140	137	28
25	25	26	32	29	29	36	35	257	257	141	137	27
26	26	27	32	30	29	36	35	257	259	141	136	27
27	27	27	31	30	28	36	34	250	260	145	50	27
28	26	26	31	30	28	36	34	249	259	148	21	27
29	26	26	30	30	-----	36	33	258	259	151	21	28
30	26	25	31	29	-----	36	33	258	258	140	21	29
31	26	-----	31	29	-----	30	-----	262	-----	148	21	-----
TOTAL	676	777	960	928	850	997	1,020	4,190	7,430	6,200	3,860	958
MEAN	21.8	25.9	31.0	29.9	30.4	32.2	34.0	135	248	200	125	31.9
MAX	27	31	36	31	33	36	36	262	260	257	152	42
MIN	18	23	25	29	28	28	31	32	209	138	21	21
AC-FT	1,340	1,540	1,900	1,840	1,690	1,980	2,020	8,310	14,700	12,300	7,660	1,900

CAL YR 1972: TOTAL 25,802 MEAN 70.5 MAX 311 MIN 18 AC-FT 51,180
WTR YR 1973: TOTAL 28,846 MEAN 79.0 MAX 262 MIN 18 AC-FT 57,180

MERMENTAU RIVER BASIN

08010000 Bayou des Cannes near Eunice, La.

LOCATION.--Lat 30°29'00", long 92°29'25", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 32, T.6 S., R.1 W., Louisiana meridian, Evangeline Parish, on left bank at downstream side of bridge on U.S. Highway 190, 3.0 miles downstream from New Orleans, Texas and Mexico Railway Co. bridge, and 4.0 miles west of Eunice.

DRAINAGE AREA.--131 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 14.84 ft above mean sea level (Louisiana Geodetic Survey bench mark; levels by Corps of Engineers). Prior to Jan. 17, 1940, nonrecording gage at same site and datum. Auxiliary water-stage recorder 1.8 miles downstream. Datum of auxiliary gage is 13.70 ft above mean sea level. Oct. 1, 1943, to Nov. 1, 1950, Oct. 31, 1957, to Jan. 13, 1958, auxiliary nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--35 years, 263 cfs (27.26 inches per year, 190,500 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 6,150 cfs Apr. 18 (gage height, 19.22 ft); minimum discharge, 6.5 cfs Oct. 20, 21, 22 (gage height, 2.02 ft).

Period of record: Maximum discharge, 11,900 cfs May 20, 1953 (gage height, 22.36 ft); no flow at times in 1939, 1948, 1955-56, 1964, 1971.

REMARKS.--Records good except those for discharges below 20 cfs which are poor. Small diversion above station. Records of water temperatures for the water year 1973 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1242: 1950(P).

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	200	38	78	40	1,000	19	95	64	3,290	13	135	100
2	70	631	45	612	1,650	19	68	2,900	4,470	13	119	200
3	48	1,690	31	657	742	20	48	5,440	2,830	14	94	400
4	30	713	799	547	175	716	49	4,370	912	31	73	1,000
5	24	202	2,960	201	86	1,040	50	1,800	257	114	74	2,500
6	19	72	4,740	147	56	568	45	630	574	286	66	5,000
7	16	58	3,400	462	40	895	1,520	1,000	253	720	67	3,000
8	13	37	1,470	773	1,250	529	1,890	1,790	110	548	112	2,000
9	12	28	612	409	851	642	752	830	103	212	85	1,400
10	10	21	325	135	787	287	196	293	95	111	70	1,000
11	9.2	18	155	105	208	349	98	125	138	69	64	700
12	9.0	15	161	111	89	287	78	100	99	94	54	2,000
13	8.8	259	1,120	128	135	99	68	108	70	129	55	4,000
14	8.8	1,320	653	99	1,870	58	83	78	58	85	102	2,500
15	8.5	656	342	62	1,590	47	86	53	57	63	108	1,000
16	8.0	196	365	44	615	45	621	39	185	55	150	700
17	7.5	87	142	38	163	45	3,310	43	152	49	210	350
18	7.5	168	76	36	87	52	6,030	49	100	57	140	200
19	7.2	951	54	43	53	49	5,410	50	71	67	100	120
20	6.8	526	71	35	40	75	3,390	45	47	69	78	77
21	6.5	160	617	862	37	107	1,170	46	32	62	73	52
22	114	84	1,300	1,090	30	66	450	43	23	99	60	36
23	971	48	792	365	29	80	163	41	20	102	50	26
24	472	36	240	114	27	3,520	95	43	23	131	42	65
25	130	874	99	70	24	5,820	116	41	25	350	46	87
26	80	1,070	62	605	22	5,030	680	40	25	450	83	45
27	1,060	403	40	458	21	2,450	828	50	22	350	114	26
28	1,090	364	30	661	20	845	272	54	18	200	130	19
29	216	426	23	420	-----	344	113	40	16	300	150	38
30	103	143	21	125	-----	150	79	37	15	220	85	200
31	70	-----	20	63	-----	100	-----	340	-----	170	60	-----
TOTAL	4,835.8	11,294	20,843	9,517	11,697	24,353	27,853	20,582	14,090	5,233	2,849	28,841
MEAN	156	376	672	307	418	786	928	664	470	169	91.9	961
MAX	1,090	1,690	4,740	1,090	1,870	5,820	6,030	5,440	4,470	720	210	5,000
MIN	6.5	15	20	35	20	19	45	37	15	13	42	19
CFSM	1.19	2.87	5.13	2.34	3.19	6.00	7.08	5.07	3.59	1.29	.70	7.34
IN.	1.37	3.21	5.92	2.70	3.32	6.92	7.91	5.84	4.00	1.49	.81	8.19
AC-FT	9,590	22,400	41,340	18,880	23,200	48,300	55,250	40,820	27,950	10,380	5,650	57,210
CAL YR 1972	TOTAL	104,364.8	MEAN	285	MAX	4,740	MIN	5.0	CFSM	2.18	IN	29.64
WTR YR 1973	TOTAL	181,987.8	MEAN	499	MAX	6,030	MIN	6.5	CFSM	3.81	IN	51.68
									AC-FT	207,000		
										361,000		

MERMENTAU RIVER BASIN

107

08011500 Boggy Bayou near Pine Prairie, La.

LOCATION.--Lat 30°47'10", long 92°28'30", in NW¼NE¼ sec.21, T.3 S., R.1 W., Louisiana meridian, Evangeline Parish, near right bank on downstream side of bridge on State Highway 106, 2.8 miles upstream from Beaver Creek, and 3.0 miles west of Pine Prairie.

DRAINAGE AREA.--51.3 sq mi.

PERIOD OF RECORD.--September 1948 to December 1951 (published as Cypress Creek near Pine Prairie), and occasional low-flow measurements, water years 1956, 1960, 1962-65. November 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 61.33 ft above mean sea level. Jan. 28, 1952, to Oct. 14, 1958, and Aug. 2, 1961, to Nov. 9, 1965, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--10 years (1948-51, 1966-73), 80.3 cfs (21.26 inches per year, 58,180 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 8,180 cfs Mar. 25 (gage height, 16.55 ft); no flow Oct. 11-21.

Period of record: Maximum discharge, 17,400 cfs Apr. 23, 1964 (gage height, 18.78 ft), from rating curve extended above 6,560 cfs on basis of contracted-opening and flow-over-road measurements of peak flow; no flow at times most years.

REMARKS.--Records good. Records of water temperatures for the water year 1973 are published in Part 2 of this report.

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	1.1	5.6	89	66	219	6.2	16	11	20	.60	111	1.4
2	.71	230	38	365	350	5.9	13	824	60	.60	379	1.8
3	.49	78	21	566	282	5.6	11	1,730	50	.45	223	17
4	.45	21	128	609	207	232	9.5	1,180	40	.60	61	9.9
5	.49	13	406	316	59	288	8.5	599	30	.74	18	354
6	.45	9.5	863	189	28	119	8.7	221	40	28	9.5	952
7	.29	8.7	810	335	20	111	753	287	17	26	6.1	858
8	.20	12	357	499	83	120	1,150	581	10	23	5.1	388
9	.13	18	566	379	546	275	694	411	6.1	11	4.0	123
10	.03	15	1,050	202	543	238	299	231	4.1	6.7	9.3	32
11	0	12	766	93	307	644	65	61	3.2	5.0	8.9	18
12	0	10	240	79	131	632	24	21	3.2	11	5.7	168
13	0	117	332	72	218	168	16	14	3.7	55	6.2	766
14	0	174	261	59	1,020	49	12	10	26	19	14	787
15	0	69	316	43	1,000	29	11	8.0	127	7.6	18	528
16	0	36	288	31	447	95	65	6.4	365	3.5	21	313
17	0	23	136	24	163	335	630	5.4	396	3.0	8.3	83
18	0	24	56	19	46	402	3,010	4.8	212	2.4	4.4	21
19	0	44	32	16	27	281	1,270	4.3	46	1.6	11	12
20	0	37	53	14	20	82	621	4.0	20	1.0	19	8.0
21	0	28	1,050	101	16	46	226	3.6	12	.60	9.1	5.7
22	27	20	1,540	212	13	28	48	3.1	7.4	3.1	5.3	4.4
23	69	17	880	87	11	33	27	2.6	5.3	43	3.0	3.3
24	23	14	381	43	9.7	2,400	19	4.0	3.8	12	1.7	2.9
25	15	77	103	28	8.7	5,180	127	59	2.7	5.6	.94	2.2
26	9.8	66	42	180	8.0	1,210	111	33	2.0	22	.50	1.8
27	25	38	27	187	7.2	582	81	20	1.6	172	.45	1.5
28	21	187	20	220	6.7	207	37	10	1.3	53	1.3	2.5
29	15	110	16	178	-----	47	22	7.0	1.4	27	8.0	6.9
30	9.8	100	13	93	-----	27	14	5.0	.86	229	5.7	358
31	6.4	-----	13	47	-----	20	-----	4.0	-----	168	2.9	-----
TOTAL	225.34	1,613.8	10,893	5,352	5,796.3	13,897.7	9,398.7	6,365.2	1,517.66	1,015.35	981.39	5,830.3
MEAN	7.27	53.8	351	173	207	448	313	205	50.6	32.8	31.7	194
MAX	69	230	1,540	609	1,020	5,180	3,010	1,730	396	229	379	952
MIN	0	5.6	13	14	6.7	5.6	8.5	2.6	.86	.45	.45	1.4
CFSM	.14	1.05	6.84	3.37	4.04	8.73	6.10	4.00	.99	.64	.62	3.78
IN.	.16	1.17	7.90	3.88	4.20	10.08	6.82	4.62	1.10	.74	.71	4.23
AC-FT	447	3,200	21,610	10,620	11,500	27,570	18,640	12,630	3,010	2,010	1,950	11,560

CAL YR 1972 TOTAL 28,914.78 MEAN 79.0 MAX 1,540 MIN 0 CFSM 1.54 IN 20.97 AC-FT 57,350
WTR YR 1973 TOTAL 62,886.74 MEAN 172 MAX 5,180 MIN 0 CFSM 3.35 IN 45.60 AC-FT 124,700

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-10	1500	12.90	1,130	4- 8	0430	13.10	1,210
12-22	0045	13.82	1,930	4-18	0845	14.92	3,940
2-14	2200	13.07	1,200	5- 3	1430	13.78	1,870
3-25	0130	16.55	8,180	9- 6	1900	12.78	1,090

MERMENTAU RIVER BASIN

08012000 Bayou Nezpique near Basile, La.

LOCATION.--Lat 30°28'50", long 92°37'55", in NE¼NW¼ sec.1, T.7 S., R.3 W., Evangeline Parish, near left bank on downstream side of bridge on U.S. Highway 190, 1,300 ft downstream from New Orleans, Texas and Mexico Railway Co. bridge, and 2.0 miles west of Basile.

DRAINAGE AREA.--527 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 3.39 ft above mean sea level. Prior to July 17, 1947, nonrecording gage, at same site and datum. Since Apr. 10, 1945, auxiliary nonrecording gage 7.5 miles downstream. Datum of auxiliary gage is 1.03 ft below mean sea level (Louisiana Geodetic Survey bench mark).

AVERAGE DISCHARGE.--35 years, 789 cfs (20.33 inches per year, 571,600 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 9,570 cfs Mar. 27 (gage height, 25.32 ft); minimum, 1.1 cfs Oct. 20, 21 (gage height, 1.08 ft).

Period of record: Maximum discharge, 35,800 cfs May 20, 1953; maximum gage height, 34.39 ft May 20, 1953; minimum discharge, 0.1 cfs June 7-31, 1943, June 22-29, 1948; minimum gage height, 1.00 ft June 28, 1948.

REMARKS.--Records good. Records of water temperatures for the water year 1973 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1512: 1945-55.

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	345	177	915	391	1,410	73	4,390	1,340	299	39	1,550	108
2	254	546	597	1,170	2,230	74	3,550	2,930	1,030	36	1,370	98
3	166	1,280	342	2,190	2,630	69	2,730	6,280	1,300	66	1,160	98
4	90	1,490	689	2,850	2,280	568	1,760	8,370	930	95	962	166
5	49	1,160	2,300	2,780	1,740	1,920	781	8,930	458	94	993	1,340
6	28	610	4,270	2,450	1,320	2,340	318	7,900	509	183	488	3,380
7	19	305	5,450	2,390	958	2,180	1,460	6,950	577	508	252	4,520
8	14	128	5,500	2,600	545	2,100	3,260	6,520	409	846	176	4,540
9	11	69	5,410	2,780	1,080	1,920	3,950	5,910	275	754	170	4,230
10	8.3	47	5,450	2,630	2,000	1,820	3,730	5,090	194	479	150	3,840
11	7.0	35	4,560	2,240	2,120	1,940	3,150	4,290	218	259	178	3,560
12	5.8	30	4,910	1,930	1,700	2,400	2,530	3,540	224	178	172	3,690
13	4.7	778	4,530	1,760	1,410	2,260	2,040	2,970	139	178	166	4,960
14	4.2	2,200	4,190	1,570	2,100	1,810	1,720	2,600	101	211	164	5,940
15	3.9	2,530	3,960	1,210	3,550	1,430	1,410	1,960	86	245	293	6,150
16	3.2	2,220	3,970	673	3,930	1,180	1,290	1,040	151	187	490	5,550
17	2.2	1,650	3,760	457	3,700	988	2,620	405	343	127	491	4,750
18	1.9	972	3,310	330	3,150	998	5,430	196	532	116	429	4,050
19	1.6	1,000	2,730	232	2,580	870	7,580	157	627	129	501	3,460
20	1.2	1,210	2,220	179	2,100	818	8,250	121	641	123	367	2,820
21	1.2	958	2,040	337	1,770	783	7,580	102	431	245	230	2,150
22	59	621	2,350	1,080	1,400	539	6,550	89	180	262	170	1,480
23	543	369	2,670	1,300	769	310	5,540	74	84	259	145	682
24	983	186	2,660	1,060	342	2,250	4,650	65	64	331	115	441
25	882	716	2,250	771	189	5,730	3,920	52	53	397	91	296
26	554	1,500	1,970	957	117	8,330	3,480	43	47	636	93	220
27	558	1,630	1,820	1,500	94	9,460	3,350	64	39	1,400	100	165
28	802	1,400	1,720	1,800	81	9,030	3,080	123	38	1,570	108	310
29	777	1,280	1,580	2,010	-----	8,100	2,460	96	34	1,430	114	559
30	544	1,240	1,290	1,840	-----	6,790	1,820	65	34	1,680	116	1,170
31	334	-----	707	1,420	-----	5,480	-----	51	-----	1,600	115	-----
TOTAL	7,057.2	28,337	90,120	46,887	47,295	84,560	104,379	78,323	10,047	14,663	11,919	74,723
MEAN	228	945	2,907	1,512	1,689	2,728	3,479	2,527	335	473	384	2,491
MAX	983	2,530	5,500	2,850	3,930	9,460	8,250	8,930	1,300	1,680	1,550	6,150
MIN	1.2	30	342	179	81	69	318	43	34	36	91	98
AC-FT	14,000	56,210	178,800	93,000	93,810	167,700	207,000	155,400	19,930	29,080	23,640	148,200
CAL YR 1972	TOTAL	328,671.6	MEAN	898	MAX	5,500	MIN	1.2	AC-FT	651,900		
WTR YR 1973	TOTAL	598,310.2	MEAN	1,639	MAX	9,460	MIN	1.2	AC-FT	1,187,000		

CALCASIEU RIVER BASIN

109

08013000 Calcasieu River near Glenmora, La.

LOCATION.--Lat 30°59'45", long 92°40'25", in SE¼SE¼ sec.4, T.1 S., R.3 W., Louisiana meridian, Rapides Parish, on right bank on downstream side of bridge on State Highway 113, 1.0 mile upstream from Prairie Branch, and 4.6 miles northwest of Glenmora.

DRAINAGE AREA.--499 sq mi.

PERIOD OF RECORD.--August 1943 to current year.

GAGE.--Water-stage recorder. Datum of gage is 110.77 ft above mean sea level (Louisiana Geodetic Survey bench mark). Prior to Nov. 19, 1949, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--30 years, 707 cfs (19.24 inches per year, 512,200 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 20,700 cfs Apr. 18 (gage height, 17.02 ft); minimum, 28 cfs Oct. 17-22; minimum gage height, 4.20 ft Oct. 18, 19-20, 21.

Period of record: Maximum discharge, 59,900 cfs May 19, 1953 (gage height, 21.55 ft); minimum, 15 cfs Sept. 27, 28, Oct. 7-9, 1954, Oct. 18, 1956; minimum gage height, 3.86 ft Oct. 18, 1956.

REMARKS.--Records good. Records of water temperatures for the water year 1973 are published in Part 2 of this report.

REVISION (WATER YEARS).--WSP 1118: 1944-47.

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	64	433	385	567	2,570	395	1,810	603	210	86	379	120
2	58	408	344	684	2,610	368	1,200	950	157	81	361	99
3	54	377	283	880	2,300	341	752	2,090	129	76	337	96
4	49	316	329	1,030	4,620	414	544	2,630	115	72	314	83
5	44	258	610	1,230	5,460	662	441	3,680	110	77	379	234
6	41	212	1,460	1,480	3,680	876	381	4,270	114	98	441	591
7	38	163	1,330	1,720	2,780	1,410	970	4,120	119	98	384	732
8	36	139	1,130	2,120	2,360	1,730	1,430	5,530	132	85	201	872
9	34	155	990	2,570	2,160	1,940	1,470	10,100	147	87	112	1,010
10	32	158	800	2,800	1,860	2,220	1,710	10,300	141	127	112	1,220
11	32	133	868	3,260	1,710	2,210	2,000	5,420	141	175	108	1,610
12	31	111	1,070	3,400	1,770	2,030	2,230	3,450	153	152	95	2,030
13	30	186	1,280	3,030	2,020	1,830	2,130	2,600	387	107	99	1,760
14	29	446	1,380	2,580	2,800	1,640	1,710	1,990	407	84	88	1,030
15	29	473	1,710	2,090	3,070	1,600	1,030	1,350	623	76	106	704
16	29	478	2,130	1,680	2,830	2,320	728	760	885	73	102	720
17	28	426	3,050	1,330	3,300	2,660	1,530	494	820	69	84	764
18	28	385	3,680	1,090	4,460	2,860	14,000	382	644	64	82	752
19	28	615	5,200	895	3,470	6,500	17,700	306	696	63	69	629
20	28	696	4,420	720	2,660	6,290	12,600	253	910	62	64	384
21	28	756	5,380	696	2,050	3,920	7,430	218	1,040	61	60	238
22	487	820	4,710	900	1,440	2,850	4,360	191	680	58	56	178
23	2,100	856	3,400	1,010	872	2,270	3,090	168	481	55	57	147
24	1,590	885	2,600	1,340	591	3,600	2,450	165	429	54	66	132
25	756	880	2,180	2,710	503	8,020	1,900	253	354	55	61	121
26	522	700	2,130	4,060	476	12,800	1,360	288	246	73	57	117
27	524	491	2,140	3,600	456	14,100	844	360	165	84	54	134
28	586	422	1,800	2,940	428	7,160	671	381	124	90	51	161
29	623	418	1,240	2,420	-----	4,180	680	352	105	193	54	177
30	595	407	744	2,070	-----	3,030	688	322	94	519	62	154
31	505	-----	563	1,980	-----	2,370	-----	277	-----	458	98	-----
TOTAL	9,058	13,203	59,336	58,882	65,306	104,596	89,839	64,253	10,758	3,512	4,593	16,999
MEAN	292	440	1,914	1,899	2,332	3,374	2,995	2,073	359	113	148	567
MAX	2,100	885	5,380	4,060	5,460	14,100	17,700	10,300	1,040	519	441	2,030
MIN	28	111	283	567	428	341	381	165	94	54	51	83
CFSM	.59	.88	3.84	3.81	4.67	6.76	6.00	4.15	.72	.23	.30	1.14
IN.	.68	.98	4.42	4.39	4.87	7.80	6.70	4.79	.80	.26	.34	1.27
AC-FT	17,970	26,190	117,700	116,800	129,500	207,500	178,200	127,400	21,340	6,970	9,110	33,720
CAL YR 1972	TOTAL	247,420	MEAN	676	MAX	8,710	MIN	28	CFSM	1.35	IN	18.44
WTR YR 1973	TOTAL	500,335	MEAN	1,371	MAX	17,700	MIN	28	CFSM	2.75	IN	37.30
									AC-FT	490,800		
									AC-FT	992,400		

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
12-21	1645	14.20	5,760	3-19	1900	14.80	8,400
1-26	0830	13.72	4,120	3-27	0045	16.36	16,700
2-4	2100	14.46	6,840	4-18	2400	17.02	20,700
2-18	0615	13.89	4,650	5-9	2100	15.74	13,300

08013500 Calcasieu River near Oberlin, La.

LOCATION.--Lat 30°38'25", long 92°48'50", in NW¼NE¼ sec.7, T.5 S., R.4 W., Allen Parish, near right bank on downstream side of bridge on State Highway 26, 3 miles northwest of Oberlin, and 15 miles upstream from Whisky Chitto Creek.

DRAINAGE AREA.--753 sq mi.

PERIOD OF RECORD.--August 1922 to January 1925, September 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 39.43 ft above mean sea level (Louisiana Geodetic Survey bench mark). September 1938 to August 17, 1939, nonrecording gage at same site. Prior to February 1925 at datum about 2.5 ft higher.

AVERAGE DISCHARGE.--37 years, (1922-24, 1938-73), 1,136 cfs (20.49 inches per year, 823,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 23,400 cfs Mar. 25 (gage height, 19.98 ft); minimum, 50 cfs Oct. 19-21; minimum gage height, 1.75 ft Oct. 19, 20.

Period of record: Maximum discharge, 72,800 cfs May 19, 1953 (gage height, 26.53 ft); minimum, 30 cfs Sept. 28, 29, Oct. 17-19, 1956; minimum gage height, 1.68 ft Sept. 20, 21-22, 23, 1970, July 20, 1971.

Flood in June 1886 reached a stage of between 22 and 23 ft, present datum.

REMARKS.--Records good. Paper mill at Elizabeth pumps about 11 cfs from wells which is later discharged into Mill Creek 20 miles above station. This discharge is continuous and fairly constant. Some small diversions from April to September for rice irrigation above station. Records of water temperatures for the water year 1973 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1512: 1923, 1939(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	102	780	663	1,610	3,390	684	4,460	1,090	384	245	370	84
2	88	720	591	1,700	3,520	628	3,540	2,980	356	210	710	94
3	87	643	610	1,790	3,670	575	2,880	6,530	314	196	1,300	118
4	89	571	1,090	2,020	3,850	855	2,280	7,820	272	180	1,040	134
5	85	524	1,330	1,970	3,410	1,400	1,680	6,490	243	166	530	775
6	79	466	2,140	1,880	2,930	1,630	1,240	4,700	238	199	415	2,200
7	74	397	2,340	2,110	3,740	1,680	2,370	4,000	250	224	388	2,400
8	70	340	2,620	2,700	4,620	1,620	3,500	5,330	231	210	398	1,940
9	66	296	2,870	3,020	4,730	1,860	3,780	6,390	210	188	434	1,180
10	62	261	2,630	3,020	4,660	1,990	3,380	7,010	200	166	378	983
11	61	245	2,030	2,880	4,390	2,200	2,610	9,580	219	156	268	1,020
12	62	244	1,780	2,820	3,700	2,440	1,950	10,200	283	184	222	1,640
13	60	444	2,160	2,950	2,880	2,490	1,790	6,770	485	236	208	3,430
14	59	824	2,380	3,210	3,550	2,380	1,920	4,910	947	216	197	3,590
15	58	899	2,620	3,360	3,780	2,190	2,110	3,810	1,840	181	220	3,520
16	56	858	2,480	3,140	3,860	2,780	2,420	3,040	2,260	152	222	2,870
17	54	730	2,140	2,780	4,000	3,670	3,360	2,390	2,060	137	209	1,890
18	53	668	1,970	2,320	3,640	4,050	6,700	1,750	1,630	130	175	1,170
19	50	878	1,970	1,890	3,160	4,150	7,600	1,220	1,340	123	162	923
20	50	1,000	2,390	1,540	3,450	3,700	16,200	856	1,110	119	152	861
21	50	1,040	3,720	1,340	3,920	3,700	20,200	636	978	111	136	811
22	184	1,030	5,720	1,320	3,540	5,500	13,700	540	1,150	106	123	688
23	718	912	6,510	1,300	2,900	5,310	8,510	490	1,260	142	113	494
24	1,140	871	6,340	1,220	2,320	7,600	5,840	450	1,200	113	107	362
25	1,780	933	5,100	1,150	1,760	22,200	4,590	440	908	119	102	312
26	1,980	1,020	3,960	1,310	1,270	18,900	3,910	420	674	247	107	276
27	2,010	1,090	3,060	1,600	946	12,900	3,240	400	540	178	112	240
28	1,660	1,180	2,440	2,350	773	13,900	2,540	390	430	146	102	221
29	1,330	1,020	2,100	3,610	-----	14,200	1,880	386	334	129	98	219
30	1,080	799	1,980	4,000	-----	8,630	1,360	402	281	170	93	245
31	868	-----	1,830	3,520	-----	5,790	-----	402	-----	344	87	-----
TOTAL	14,165	21,683	81,564	71,430	92,359	161,602	141,540	101,822	22,627	5,423	9,178	34,690
MEAN	457	723	2,631	2,304	3,299	5,213	4,718	3,285	754	175	296	1,156
MAX	2,010	1,180	6,510	4,000	4,730	22,200	20,200	10,200	2,260	344	1,300	3,590
MIN	50	244	591	1,150	773	575	1,240	386	200	106	87	84
CFSM	.61	.96	3.49	3.06	4.38	6.92	6.27	4.36	1.00	.23	.39	1.54
IN.	.70	1.07	4.03	3.53	4.56	7.98	6.99	5.03	1.12	.27	.45	1.71
AC-FT	28,100	43,010	161,800	141,700	183,200	320,500	280,700	202,000	44,880	10,760	18,200	68,810
CAL YR 1972:	TOTAL 343,927		MEAN 942	MAX 7,120	MIN 50	CFSM 1.25		IN. 16.99	AC-FT. 682,200			
WTR YR 1973:	TOTAL 758,083		MEAN 2,077	MAX 22,200	MIN 50	CFSM 2.76		IN. 37.44	AC-FT. 1,504,000			

PEAK DISCHARGE (BASE, 8,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-25	1200	19.98	23,400	4-20	2400	19.78	22,200
3-29	0100	18.74	10,700	5-4	0030	17.10	8,450
4-18	2300	17.00	8,150	5-11	2400	17.93	11,500

CALCASIEU RIVER BASIN

111

08014500 Whiskey Chitto Creek near Oberlin, La.

LOCATION.--Lat 30°41'55", long 92°53'35", in NE¼NE¼ sec.20, T.4 S., R.5 W., Allen Parish, near left bank on downstream side of bridge on State Highway 26, 1 mile downstream from Tenmile Creek, 8 miles upstream from Bundick Creek, and 10 miles northwest of Oberlin.

DRAINAGE AREA.--510 sq mi.

PERIOD OF RECORD.--January 1939 to current year. Prior to October 1963 published as Whiskey Chitto Creek near Oberlin.

GAGE.--Water-stage recorder. Datum of gage is 46.24 ft above mean sea level (Louisiana Geodetic Survey bench mark). Prior to Oct. 19, 1944, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--34 years, 790 cfs (21.04 inches per year, 572,400 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 24,000 cfs Mar. 26 (gage height, 22.10 ft); minimum, 128 cfs Oct. 19, 20 (gage height, 2.67 ft).

Period of record: Maximum discharge, 144,000 cfs May 18, 1953 (gage height, 32.8 ft, from floodmark), from rating curve extended above 35,000 cfs on basis of slope-area measurement of peak flow; minimum, 88 cfs Oct. 19, 20, 1956; minimum gage height, 2.48 ft Aug. 17, 1970.

Flood in June 1886 reached a stage of 25.7 ft, from floodmarks preserved by local residents.

REMARKS.--Records good. Records of water temperatures for the water year 1973 are published in Part 2 of this report.

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	168	380	380	845	1,320	488	1,150	656	380	320	500	485
2	159	368	338	1,210	2,360	464	995	1,760	362	310	761	378
3	166	320	314	1,550	2,340	446	860	3,990	355	300	1,200	300
4	162	290	316	1,780	2,310	1,180	758	5,720	350	300	1,270	280
5	152	273	488	1,680	2,130	2,530	698	7,940	345	350	731	704
6	146	264	1,890	1,560	1,410	2,620	656	6,260	385	450	449	2,400
7	142	258	2,660	1,830	866	2,850	1,760	5,040	438	515	370	2,740
8	140	239	2,480	2,260	812	3,010	2,840	4,490	464	560	334	3,150
9	138	223	2,100	2,520	1,920	2,640	2,720	4,960	410	488	322	3,680
10	137	214	1,690	2,440	2,590	2,020	2,620	7,520	400	385	308	3,020
11	136	209	1,690	2,360	2,570	1,680	2,400	6,020	435	340	328	1,370
12	135	205	1,780	1,810	2,500	1,660	1,450	4,450	440	320	360	1,040
13	134	276	1,810	1,330	1,800	1,600	872	2,260	758	302	314	1,860
14	132	893	1,550	1,140	2,430	1,240	734	1,320	842	312	284	1,800
15	132	1,130	1,480	1,000	3,060	878	665	1,070	1,510	299	273	1,830
16	131	1,050	1,790	875	2,970	1,370	770	896	1,810	282	271	1,470
17	130	662	1,850	773	3,000	2,460	2,100	788	2,120	278	271	917
18	129	432	1,890	698	2,620	2,570	4,520	716	1,920	273	267	632
19	128	1,080	1,460	644	1,390	2,580	9,020	665	1,400	275	260	521
20	128	1,540	977	605	938	2,400	8,380	620	860	271	260	452
21	129	1,550	1,660	689	812	1,550	6,380	581	1,350	262	253	412
22	361	1,160	2,290	1,600	725	932	5,000	545	1,600	260	246	382
23	2,070	725	2,520	1,900	665	764	3,280	515	1,100	266	238	355
24	1,910	512	2,900	1,970	635	3,170	1,480	488	750	282	233	340
25	1,720	473	2,840	1,690	653	8,800	1,120	470	600	342	226	342
26	1,410	608	1,640	1,100	617	21,400	980	458	500	503	225	388
27	1,290	749	938	1,350	563	11,700	908	470	450	382	246	438
28	1,120	620	719	1,640	518	6,800	1,030	494	410	352	233	405
29	1,080	467	623	1,750	-----	5,050	962	446	370	398	360	464
30	866	408	566	1,500	-----	3,010	749	425	340	611	392	438
31	485	-----	563	1,060	-----	1,460	-----	402	-----	647	479	-----
TOTAL	15,266	17,578	46,192	45,159	46,524	101,322	67,857	72,435	23,454	11,235	12,264	32,993
MEAN	492	586	1,490	1,457	1,662	3,268	2,262	2,337	782	362	396	1,100
MAX	2,070	1,550	2,900	2,520	3,060	21,400	9,020	7,940	2,120	647	1,270	3,680
MIN	128	205	314	605	518	446	656	402	340	260	225	280
CFSM	.96	1.15	2.92	2.86	3.26	6.41	4.44	4.58	1.53	.71	.78	2.16
IN.	1.11	1.28	3.37	3.29	3.39	7.39	4.95	5.28	1.71	.82	.89	2.41
AC-FT	30,280	34,870	91,620	89,570	92,280	201,000	134,600	143,700	46,520	22,280	24,330	65,440

CAL YR 1972 TOTAL 228,721 MEAN 627 MAX 2,900 MIN 128 CFSM 1.23 IN 16.68 AC-FT 453,700
WTR YR 1973 TOTAL 492,279 MEAN 1,349 MAX 21,400 MIN 128 CFSM 2.64 IN 35.90 AC-FT 976,400

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-25	0515	11.88	3,140	4-19	1245	19.10	9,800
2-15	1345	11.80	3,100	5- 5	0700	18.46	8,340
3- 8	0445	11.71	3,070	5-10	0900	18.23	7,900
3-26	1145	22.10	24,000	9- 9	1345	13.06	3,730

CALACASIEU RIVER BASIN

08014800 Bundick Creek near De Ridder, La.

LOCATION.--Lat 30°49'09", long 93°13'51", in SE¼NW¼ sec.7, T.3 S., R.8 W., Beauregard Parish, near left bank on downstream side of bridge on State Highway 26, 1.1 miles downstream from Flat Creek, and 3.8 miles southeast of De Ridder.

DRAINAGE AREA.--120 sq mi.

PERIOD OF RECORD.--March 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 113.75 ft above mean sea level (Louisiana Geodetic Survey bench mark).

AVERAGE DISCHARGE.--17 years, 157 cfs (17.77 inches per year, 113,700 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 17,200 cfs Mar. 25 (gage height, 21.71 ft); minimum, 20 cfs Oct. 17, 18, 19, 20 (gage height, 2.11 ft).

Period of record: Maximum discharge, 17,200 cfs Mar. 25, 1973 (gage height, 21.71 ft); minimum, 8.8 cfs Oct. 16, 1956; minimum gage height, 1.90 ft Sept. 3, 4, 1965.

REMARKS.--Records good. Records of water temperatures for the water year 1973 are published in Part 2 of this report.

CORRECTIONS.--The maximum discharge for water year 1972 is 6,180 cfs; previous discharge figure published in error.

REVISIONS (WATER YEARS).--WSP 2122: 1957-58, 1961-62, 1964(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	49	67	65	322	562	88	176	113	52	62	800	77
2	44	56	59	444	1,120	100	147	847	50	60	600	33
3	35	48	57	548	964	300	133	4,610	48	58	400	23
4	29	53	85	517	344	600	123	1,870	47	100	266	30
5	27	63	361	342	177	300	114	790	46	400	76	431
6	26	55	560	350	152	190	108	287	150	200	57	961
7	25	44	483	483	410	160	560	1,500	130	120	67	1,020
8	24	39	219	876	952	150	885	4,140	82	90	69	510
9	23	37	149	1,010	942	190	741	1,140	61	72	56	152
10	23	35	201	583	517	170	297	549	86	64	48	103
11	22	34	358	299	235	250	172	240	81	56	42	85
12	22	33	346	302	455	350	134	188	142	52	38	124
13	21	219	361	288	1,690	230	117	167	378	48	36	316
14	21	597	274	243	1,280	156	105	147	567	45	37	530
15	21	388	558	195	696	205	107	126	1,260	44	39	533
16	21	138	912	165	266	446	703	112	1,060	43	44	293
17	20	73	661	147	200	773	3,040	101	415	54	49	113
18	21	189	234	136	173	616	3,580	95	346	68	49	85
19	21	702	156	130	155	275	1,920	90	280	49	57	73
20	21	689	275	121	141	168	849	85	800	42	49	64
21	24	301	884	417	134	143	358	81	500	38	43	59
22	75	120	1,090	918	143	123	250	76	300	36	35	55
23	409	97	664	816	148	210	220	71	170	50	29	51
24	353	66	248	326	128	1,370	200	68	130	257	27	54
25	141	164	164	173	112	7,980	180	73	110	155	25	63
26	61	240	135	416	102	1,790	260	78	90	70	26	67
27	201	164	117	492	90	768	363	71	80	55	27	56
28	252	103	104	545	88	327	237	66	72	52	40	59
29	146	82	96	390	-----	248	137	56	66	41	297	94
30	73	74	149	221	-----	223	109	53	64	232	699	93
31	65	-----	443	166	-----	204	-----	53	-----	659	351	-----
TOTAL	2,316	4,990	10,468	12,381	12,376	19,103	16,325	17,943	7,663	3,372	4,478	6,207
MEAN	74.7	166	338	399	442	616	544	579	255	109	144	207
MAX	409	702	1,090	1,010	1,690	7,980	3,580	4,610	1,260	659	800	1,020
MIN	20	33	57	121	88	88	105	53	46	36	25	23
CFSM	.62	1.38	2.82	3.33	3.68	5.13	4.53	4.83	2.13	.91	1.20	1.73
IN.	.72	1.55	3.25	3.84	3.84	5.92	5.06	5.56	2.38	1.05	1.39	1.92
AC-FT	4,590	9,900	20,760	24,560	24,550	37,890	32,380	35,590	15,200	6,690	8,880	12,310

CAL YR 1972 TOTAL 48,319 MEAN 132 MAX 1,090 MIN 16 CFSM 1.10 IN 14.98 AC-FT 95,840
 WTR YR 1973 TOTAL 117,622 MEAN 322 MAX 7,980 MIN 20 CFSM 2.68 IN 36.46 AC-FT 233,300

PEAK DISCHARGE (BASE, 900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-16	1200	13.34	954	3-25	0100	21.71	17,200
12-22	0315	14.92	1,180	4- 8	1430	12.91	911
1- 9	0330	14.01	1,030	4-18	1115	17.84	3,980
1-22	1415	13.37	958	5- 3	0815	19.06	5,950
2- 2	1900	15.25	1,300	5- 8	0245	19.19	6,280
2- 8	2145	14.15	1,050	6-15	2245	15.79	1,700
2-13	1745	16.35	2,240	9- 6	2330	14.84	1,160

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LOCATION.--Lat 30°30'10", long 92°54'55", in NW¼SE¼ sec.30, T.6 S., R.5 W., Allen Parish, on left bank on downstream side of bridge on U. S. Highway 190, 0.5 mile downstream from Whisky Chitto Creek, and 4 miles west of Kinder.

PERIOD OF RECORD.--August 1922 to January 1925, October 1938 to September 1957, October 1961 to current year. October 1957 to September 1961 (annual maximums) from U. S. Weather Bureau records.

AVERAGE DISCHARGE.--33 years (1922-24, 1938-57, 1961-73), 2,528 cfs (1,832,000 acre-ft per year).

Period of record: Maximum discharge, 182,000 cfs May 19, 1953 (gage height, 32.00 ft); minimum, 136 cfs Aug. 15, 1956; minimum gage height, 1.99 ft Aug. 17, 1951, Oct. 20, 1973.

REMARKS.--Records good. Paper mill at Elizabeth pumps about 11 cfs from wells which is later discharged into Mill Creek 36 miles above station. This discharge is continuous and fairly constant. Water is diverted during period April to September at points just above station and 5 miles above station for the irrigation of about 7,500 acres of rice, part of which is below station. The maximum rate of withdrawal is about 100 cfs and this diversion results in marked regulation of the low-water flow. Records of water temperatures for the water year 1973 are published in Part 2 of this report. See following page for table of daily gage height.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	509	1,590	1,490	2,970	5,890	1,750	9,180	3,140	1,250	831	1,100	967
2	411	1,400	1,290	3,810	6,200	1,640	6,690	7,650	1,220	754	1,090	932
3	397	1,280	1,170	4,400	6,860	1,560	5,220	12,400	1,150	712	1,940	869
4	390	1,150	1,760	4,870	7,100	2,000	4,170	15,100	1,090	785	2,720	911
5	374	1,040	3,240	5,010	7,070	3,940	3,550	18,500	1,050	743	2,570	1,880
6	352	953	5,250	4,880	6,810	4,840	2,840	19,800	1,080	827	1,800	4,570
7	333	880	6,870	5,190	5,800	5,440	4,870	16,800	1,100	1,080	1,420	5,690
8	317	796	6,960	5,960	5,010	5,810	7,510	14,000	1,120	1,200	1,330	5,980
9	301	708	6,530	6,620	6,060	5,940	8,480	13,100	1,120	1,250	1,260	5,860
10	289	645	6,200	6,900	8,000	5,690	8,080	14,600	1,070	1,080	1,210	5,740
11	283	607	5,660	6,850	8,650	5,360	7,320	17,800	1,110	894	1,090	5,260
12	277	586	5,150	6,680	8,400	5,170	5,830	18,300	1,330	782	1,060	4,300
13	274	922	5,040	6,100	7,800	5,050	4,030	17,400	1,610	736	1,040	6,070
14	268	1,920	5,150	5,370	7,470	4,860	3,430	11,700	2,030	715	1,010	8,920
15	265	2,340	5,240	5,030	8,590	4,350	3,220	7,680	2,660	684	1,040	7,780
16	262	2,370	5,470	4,850	9,190	4,180	3,740	5,700	3,790	614	974	6,760
17	256	2,150	5,380	4,500	8,840	5,880	6,120	4,450	4,440	579	953	5,590
18	259	1,700	5,040	4,140	8,820	6,850	11,600	3,830	4,760	554	911	4,230
19	247	2,150	4,830	3,530	8,420	7,320	22,600	2,990	4,620	533	883	2,730
20	241	2,950	4,370	3,030	6,410	7,490	24,300	2,290	4,060	537	844	2,090
21	244	3,120	4,750	2,720	5,110	7,010	29,600	1,930	3,160	526	810	1,860
22	512	3,100	6,210	2,720	4,930	5,910	26,000	1,710	3,040	519	796	1,780
23	2,080	2,620	8,200	3,180	4,730	5,860	19,400	1,570	3,250	547	778	1,580
24	3,730	2,000	9,470	3,780	4,210	10,600	12,400	1,470	3,110	540	757	1,400
25	3,860	1,930	10,700	3,820	3,560	23,100	9,030	1,400	2,510	540	708	1,280
26	3,680	1,960	10,100	4,000	2,920	39,200	7,630	1,360	1,850	778	715	1,200
27	3,830	2,080	6,760	3,830	2,310	49,200	5,800	1,370	1,450	960	698	1,200
28	3,820	2,260	4,890	4,210	1,950	36,700	4,710	1,380	1,210	813	726	1,360
29	3,250	2,250	3,840	4,880	-----	26,100	3,860	1,350	1,030	729	792	1,360
30	2,690	1,840	3,350	4,930	-----	21,900	3,160	1,300	911	838	936	1,310
31	2,100	-----	3,030	5,780	-----	14,700	-----	1,280	-----	1,070	908	-----
TOTAL	36,092	51,297	163,390	144,540	177,110	335,400	274,370	243,350	63,181</			

CALCASIEU RIVER BASIN

08015500 Calcasieu River near Kinder, La.--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.81	5.85	5.58	9.03	13.14	6.25	15.49	8.96	4.94	4.24	4.91	4.12
2	2.61	5.35	5.04	10.30	13.43	5.98	14.15	13.81	4.83	4.05	4.88	4.02
3	2.49	5.02	4.70	11.43	13.97	5.77	12.86	16.05	4.64	3.95	6.88	3.84
4	2.47	4.63	6.25	12.04	14.14	6.86	11.54	16.94	4.47	4.12	8.53	3.96
5	2.42	4.32	9.21	12.21	14.12	10.21	10.14	17.76	4.37	4.03	8.21	6.58
6	2.35	4.08	11.91	12.05	13.93	12.00	8.77	18.02	4.43	4.23	6.38	11.24
7	2.29	3.87	13.67	12.41	13.05	12.68	11.15	17.37	4.50	4.85	5.41	12.94
8	2.24	3.62	14.03	13.20	12.20	13.06	13.99	16.68	4.57	5.15	5.15	13.23
9	2.19	3.38	13.71	13.77	13.27	13.19	14.90	16.45	4.57	5.28	4.97	13.11
10	2.15	3.20	13.43	14.00	14.65	12.94	14.70	16.83	4.41	4.85	4.81	12.99
11	2.13	3.09	12.91	13.96	14.98	12.60	14.27	17.61	4.52	4.40	4.48	12.49
12	2.11	3.03	12.37	13.83	14.86	12.39	13.43	17.72	5.17	4.11	4.39	11.28
13	2.10	3.99	12.24	13.33	14.54	12.25	11.55	17.49	5.91	4.01	4.33	13.31
14	2.08	6.68	12.37	12.61	14.37	12.02	9.95	16.26	6.95	3.96	4.24	15.11
15	2.07	7.72	12.47	12.23	14.94	11.34	9.53	14.79	8.38	3.87	4.32	14.54
16	2.06	7.80	12.72	12.01	15.23	11.11	10.14	13.36	10.53	3.67	4.14	13.89
17	2.04	7.25	12.62	11.57	15.07	12.75	12.56	11.94	11.48	3.57	4.08	12.84
18	2.02	6.13	12.23	11.05	15.06	13.95	15.74	10.59	11.90	3.50	3.96	11.18
19	2.01	7.24	11.99	10.13	14.86	14.28	17.01	9.08	11.72	3.44	3.88	8.56
20	1.99	8.99	11.38	9.16	13.57	14.38	18.81	7.61	10.94	3.45	3.77	7.08
21	2.00	9.34	11.60	8.54	12.31	14.06	19.52	6.70	9.42	3.42	3.67	6.51
22	2.80	9.29	13.00	8.55	12.11	13.16	19.04	6.15	9.17	3.40	3.63	6.33
23	6.98	8.31	14.76	9.46	11.86	13.10	17.94	5.79	9.60	3.48	3.58	5.83
24	10.44	6.88	15.33	10.54	11.16	15.33	16.49	5.56	9.31	3.46	3.52	5.35
25	10.65	6.70	15.77	10.60	10.18	18.31	15.14	5.37	8.08	3.46	3.38	5.01
26	10.39	6.78	15.57	10.86	8.93	20.71	14.45	5.24	6.67	4.10	3.40	4.79
27	10.62	7.07	14.30	10.62	7.65	21.85	13.40	5.26	5.79	4.57	3.35	4.78
28	10.60	7.52	12.55	11.16	6.75	20.39	12.21	5.31	5.19	4.19	3.43	5.24
29	9.59	7.49	10.97	12.05	-----	19.07	11.01	5.20	4.74	3.99	3.62	5.24
30	8.48	6.48	9.79	12.11	-----	18.41	9.41	5.07	4.43	4.26	4.03	5.09
31	7.13	-----	9.15	13.03	-----	17.12	-----	5.02	-----	4.83	3.95	-----
MAX	10.65	9.34	15.77	14.00	15.23	21.85	19.52	18.02	11.90	5.28	8.53	15.11
MIN	1.99	3.03	4.70	8.54	6.75	5.77	8.77	5.02	4.37	3.40	3.35	3.84

08016400 Beckwith Creek near De Quincy, La.

LOCATION.--Lat 30°28'15", long 93°21'35", in SE¼NW¼ sec.11, T.7 S., R.10 W., Beauregard Parish, near right bank on downstream side of bridge on State Highway 12, 300 ft upstream from New Orleans, Texas and Mexico Railway bridge, 2.3 miles downstream from Hams Creek, and 4.4 miles northeast of De Quincy.

DRAINAGE AREA.--148 sq mi.

PERIOD OF RECORD.--August 1945 to current year.

GAGE.--Water-stage recorder. Datum of gage is 25.29 ft above mean sea level. Prior to Oct. 28, 1950, nonrecording gage and Oct. 29, 1950, to Jan. 3, 1961, water-stage recorder 1,000 ft upstream at same datum.

AVERAGE DISCHARGE.--28 years, 195 cfs (17.89 inches per year, 141,300 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 4,890 cfs Mar. 26 (gage height, 20.37 ft); minimum, 2.8 cfs Nov. 11 (gage height, 1.30 ft).

Period of record: Maximum discharge, 13,800 cfs May 21, 1955 (gage height, 24.45 ft); minimum, 0.1 cfs Sept. 27 to Oct. 30, 1956; minimum gage height, 0.87 ft Sept. 26, 1954.

REMARKS.--Records good. Records of water temperatures for the water year 1973 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1118: 1946, 1947(M). WSP 1512: 1945.

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	55	17	38	253	684	37	128	82	15	17	196	10
2	21	12	25	862	580	37	89	914	15	15	125	26
3	13	8.9	20	748	440	33	67	1,480	14	13	145	62
4	10	7.2	20	550	412	292	52	1,130	13	12	199	272
5	8.5	6.1	173	430	423	552	42	1,460	20	166	138	1,700
6	7.2	5.4	785	735	267	452	39	1,720	33	865	58	1,970
7	6.3	4.4	273	1,060	121	331	935	1,520	18	1,040	30	1,280
8	5.6	3.9	114	1,110	197	240	806	1,380	30	1,480	21	666
9	5.1	3.6	135	798	917	429	503	967	38	1,730	19	446
10	4.6	3.4	135	643	674	357	445	1,350	31	1,310	42	245
11	4.3	3.0	129	658	527	485	435	1,490	83	717	43	82
12	4.2	3.0	115	706	538	320	243	1,110	274	140	29	1,140
13	4.1	351	197	644	643	208	104	699	317	61	18	2,320
14	4.1	321	197	353	1,400	167	65	336	606	42	19	1,660
15	3.8	157	317	248	1,190	116	59	137	1,200	30	199	1,170
16	3.6	125	329	198	909	149	690	75	893	26	55	778
17	3.6	120	230	149	1,090	385	1,550	54	1,220	23	33	446
18	3.6	143	256	111	1,190	371	2,560	44	1,530	21	141	139
19	3.7	490	285	93	931	351	2,030	36	1,210	20	135	66
20	3.7	352	212	79	341	347	2,120	31	760	18	48	44
21	3.6	278	541	415	133	196	1,730	29	437	16	23	34
22	51	262	552	526	93	90	1,290	26	349	14	14	28
23	46	182	446	426	77	114	837	24	142	13	10	24
24	15	74	422	418	69	1,580	263	22	216	48	8.3	23
25	6.9	79	433	506	62	2,340	120	20	253	60	7.2	22
26	14	81	336	864	55	3,560	129	19	123	54	7.1	23
27	75	45	142	540	49	3,450	90	18	53	31	13	24
28	41	248	71	591	42	2,000	126	17	34	19	180	45
29	27	112	47	430	-----	1,400	108	15	25	13	206	37
30	32	62	40	379	-----	892	64	14	20	13	22	26
31	26	-----	170	335	-----	275	-----	15	-----	204	11	-----
TOTAL	512.5	3,559.9	7,185	15,858	14,054	21,556	17,719	16,234	9,972	8,231	2,194.6	14,808
MEAN	16.5	119	232	512	502	695	591	524	332	266	70.8	494
MAX	75	490	785	1,110	1,400	3,560	2,560	1,720	1,530	1,730	206	2,320
MIN	3.6	3.0	20	79	42	33	39	14	13	12	7.1	10
CFSM	.11	.80	1.57	3.46	3.39	4.70	3.99	3.54	2.24	1.80	.48	3.34
IN.	.13	.89	1.81	3.99	3.53	5.42	4.45	4.08	2.51	2.07	.55	3.72
AC-FT	1,020	7,060	14,250	31,450	27,880	42,760	35,150	32,200	19,780	16,330	4,350	29,370

CAL YR 1972 TOTAL 46,432.7 MEAN 127 MAX 3,510 MIN 2.1 CFSM .86 IN 11.67 AC-FT 92,100
WTR YR 1973 TOTAL 131,884.0 MEAN 361 MAX 3,560 MIN 3.0 CFSM 2.44 IN 33.15 AC-FT 261,600

PEAK DISCHARGE (BASE, 1,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-26	1830	20.37	4,890	7- 9	0315	16.81	1,820
4-18	1000	18.86	2,890	9- 6	0200	17.95	2,270
5- 6	0330	16.75	1,810	9-13	0445	18.57	2,660

CALCASIEU RIVER BASIN

08016800 Bear Head Creek near Starks, La.

LOCATION.--Lat 30°19'59", long 93°37'44", in sec.30, T.8 S., R.12 W., Calcasieu Parish, near right bank on downstream side of bridge on State Highway 12, 2.4 miles northeast of Starks, and 3.5 miles downstream from Green Island Marsh Creek.

DRAINAGE AREA.--177 sq mi.

PERIOD OF RECORD.--Annual maximums, water years 1954-56. March 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 16.34 ft above mean sea level (Louisiana Geodetic Survey bench mark). Oct. 13, 1953, to Mar. 8, 1956, nonrecording gage at site 100 ft downstream at same datum.

AVERAGE DISCHARGE.--17 years, 228 cfs (17.49 inches per year, 165,200 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 4,880 cfs Mar. 27 (gage height, 15.86 ft); minimum, 2.5 cfs May 31, Aug. 29 (gage height, 7.53 ft).

Period of record: Maximum discharge, 11,200 cfs Oct. 28, 1970 (gage height, 17.63 ft); no flow at times most years.

REMARKS.--Records good except those for period of no gage-height record which are fair. Records of water temperatures for the water year 1973 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 2122: 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	116	30	91	185	440	47	326	65	68	9.9	25	25		
2	160	22	75	418	470	89	153	402	39	39	99	28		
3	140	27	54	814	545	176	98	1,550	25	29	207	15		
4	100	20	39	898	480	347	72	1,720	16	26	198	24		
5	70	15	95	802	378	635	56	1,330	20	54	153	573		
6	50	12	175	725	312	814	46	1,100	95	211	163	2,490		
7	40	9.0	233	766	227	605	177	1,240	81	422	107	3,480		
8	33	7.0	350	1,100	152	418	445	1,430	50	916	48	2,860		
9	25	6.0	315	1,320	246	306	645	1,320	33	1,280	32	1,940		
10	20	4.8	224	1,320	590	912	605	977	133	1,240	87	1,270		
11	17	4.0	151	1,150	760	402	505	778	366	1,100	135	650		
12	14	3.7	114	934	695	445	402	946	595	754	66	306		
13	12	15	126	736	585	386	248	1,570	868	273	56	1,380		
14	10	50	147	560	665	268	105	1,620	1,220	84	39	2,670		
15	8.0	105	176	382	984	181	86	904	1,920	75	22	2,620		
16	6.5	122	196	273	1,220	119	226	374	2,620	60	17	2,050		
17	5.5	136	246	208	1,260	107	1,050	167	2,360	38	15	1,450		
18	5.0	134	256	167	1,290	148	2,380	66	1,620	24	11	854		
19	4.5	133	231	139	1,240	200	3,200	38	1,050	15	29	292		
20	4.0	182	185	121	946	224	3,090	26	710	11	43	96		
21	10	236	185	150	455	192	2,630	19	560	8.8	45	46		
22	50	258	233	263	193	103	1,950	15	329	7.3	30	32		
23	70	258	366	545	120	83	1,350	12	285	5.9	17	25		
24	50	209	445	640	95	916	802	9.5	188	11	9.8	30		
25	25	119	410	615	81	3,430	303	7.8	86	18	6.1	29		
26	13	76	319	640	71	4,540	172	6.4	42	50	4.4	26		
27	30	75	203	720	64	4,740	222	5.3	25	197	3.5	26		
28	60	87	109	760	55	3,830	209	4.4	17	284	2.9	55		
29	80	111	62	640	-----	2,530	135	3.5	12	125	2.8	136		
30	70	108	59	545	-----	1,600	85	2.9	8.5	32	19	222		
31	50	-----	97	450	-----	904	-----	39	-----	15	34	-----		
TOTAL	1,348.5	2,574.5	5,967	18,986	14,619	29,097	21,773	17,747.8	15,441.5	7,414.9	1,726.5	25,700		
MEAN	43.5	85.8	192	612	522	939	726	573	515	239	55.7	857		
MAX	160	258	445	1,320	1,290	4,740	3,200	1,720	2,620	1,280	207	3,480		
MIN	4.0	3.7	39	121	55	47	46	2.9	8.5	5.9	2.8	15		
CFSM	.25	.48	1.08	3.46	2.95	5.31	4.10	3.24	2.91	1.35	.31	4.84		
IN.	.28	.54	1.25	3.99	3.07	6.12	4.58	3.73	3.25	1.56	.36	5.40		
AC-FT	2,670	5,110	11,840	37,660	29,000	57,710	43,190	35,200	30,630	14,710	3,420	50,980		
CAL YR 1972	TOTAL	53,527.56	MEAN	146	MAX	2,610	MIN	0	CFSM	.82	IN	11.25	AC-FT	106,200
WTR YR 1973	TOTAL	162,395.70	MEAN	445	MAX	4,740	MIN	2.8	CFSM	2.51	IN	34.13	AC-FT	322,100

NOTE.--No gage-height record Oct. 2 to Nov. 9.

SABINE RIVER BASIN

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08022000 Sabine River near Tatum, Tex.

LOCATION.--Lat 32°22'11", long 94°27'28", Rusk County, near right bank on downstream side of pier of bridge on State Highway 43, 5.1 miles northeast of Tatum, 5.2 miles upstream from Potters Creek, 5.6 miles downstream from Cherokee Bayou, and at mile 339.4.

DRAINAGE AREA.--3,493 sq mi.

PERIOD OF RECORD.--October 1938 to September 1972. Monthly discharge only for October 1938 to January 1939, published in WSP 1312.

GAGE.--Water-stage recorder. Datum of gage is 204.18 ft above mean sea level (levels by Corps of Engineers). Prior to Sept. 21, 1945, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--22 years (1938-60) prior to regulation by Lake Tawakoni, 2,663 cfs (1,929,000 acre-ft per year); 12 years (1960-72) after regulation by Lake Tawakoni, 1,907 cfs (1,382,000 acre-ft per year).

EXTREMES.--1971-72: Maximum discharge, 27,100 cfs Dec. 19 (gage height, 26.95 ft); minimum, 14 cfs Sept. 20.

Period of record: Maximum discharge, 123,000 cfs Apr. 4, 1945 (gage height, 33.80 ft, from graph based on gage readings), from rating curve extended above 66,000 cfs on basis of partly estimated measurement of 88,900 cfs; minimum observed, 2.4 cfs Aug. 11, 12, 1964.

Maximum stage since at least 1884, that of Apr. 4, 1945. Flood in May 1884 reached a stage of about 32 ft, from information by local residents.

REMARKS.--Records good. Flow partly regulated by Lake Tawakoni (station 08017400) located 175 miles upstream and six small reservoirs (combined capacity, 1,022,000 acre-ft). Several diversions above station and below Lake Tawakoni for oilfield operation, municipal, and industrial use.

REVISIONS.--WSP 1732: Drainage area.

NOTE.--Records for 1973 water year are not available in time for inclusion in this report. They will be published in a subsequent WRD 1A. These records are published in WRD TEX.

RECORDS FOR 1972 WATER YEAR ARE PUBLISHED ON PAGE 151 OF THIS REPORT.

08022500 Sabine River at Logansport, La.

LOCATION.--Lat 31°58'20", long 94°00'22", on De Soto Parish, La.-Shelby County, Tex. State line at Logansport, just upstream from bridge on U.S. Highway 84, 3 miles upstream from Bayou Castor, 111 miles upstream from Toledo Bend Dam, and at mile 267.1.

DRAINAGE AREA.--7,178 sq mi (see station 08025350).

PERIOD OF RECORD.--Gage-height record March 1968 to current year. Discharge record July 1903 to February 1968.

GAGE.--Water-stage recorder. Datum of gage is 147.72 ft above mean sea level. July 1, 1903, to Sept. 30, 1956, nonrecording gage. Oct. 1, 1956, to Jan. 16, 1964, water-stage recorder 4,600 ft upstream. Jan. 16, 1964, to Dec. 10, 1968, water-stage recorder 4,700 ft upstream. All gages to present datum except prior to Dec. 31, 1906, when datum was 2 ft lower.

AVERAGE DISCHARGE.--64 years (1903-67), 3,208 cfs (2,324,000 acre-ft per year).

EXTREMES.--Current year: Maximum gage height, 30.00 ft May 8; minimum, 18.40 ft Oct. 19.

Period of gage-height record 1968-73: Maximum gage height, 32.50 ft Apr. 20, 1969; minimum since initial filling of Toledo Bend Reservoir in June 1968, 18.40 ft Oct. 19, 1972.

Period of discharge record 1903-67: Maximum discharge, 92,000 cfs Apr. 8, 1945 (gage height, 44.07 ft, from floodmark); minimum, 16 cfs Sept. 26-28, Oct. 3, 4, 1939.

Maximum stage since at least 1884, that of Apr. 8, 1945. Flood in May 1884 reached a stage of 39.4 ft, present site and datum.

REMARKS.--Records good. Station discontinued as daily streamflow station Mar. 1, 1968, due to backwater from storage in Toledo Bend Reservoir (station 08025350). Eight major reservoirs, with a combined capacity of 1,068,000 acre-ft, largely regulate the flow. For statement regarding regulation by Soil Conservation Service floodwater-retarding structures, see Lake Fork Creek near Quitman (station 08019000). Numerous diversions above station for oilfield operations, municipal, and industrial use.

REVISIONS (WATER YEARS).--WSP 1312: 1903-6 (monthly and annual means). WSP 1732: 1929(M), 1933(M).

GAGE HEIGHT, IN FEET, AT 2400, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.74	20.22	21.30	23.23	24.54	24.03	27.35	29.32	24.15	26.04	24.15	22.40
2	18.74	19.95	21.28	23.31	24.52	23.86	27.16	29.34	24.29	25.55	24.18	22.42
3	18.72	19.92	21.23	23.29	24.52	24.08	26.87	29.32	24.05	25.00	24.06	22.38
4	18.70	19.75	21.21	23.21	24.61	24.07	26.67	29.36	24.08	24.76	23.84	22.29
5	18.70	19.75	21.38	23.31	24.62	24.25	26.54	29.47	24.27	24.62	23.72	22.60
6	18.64	19.78	21.19	23.59	24.58	24.02	26.45	29.62	24.50	24.57	23.81	22.92
7	18.63	19.74	21.41	24.71	24.54	24.81	26.34	29.95	24.77	25.01	23.78	23.22
8	18.66	20.23	21.31	25.53	23.93	25.14	26.33	29.42	25.07	25.44	23.70	23.48
9	18.64	20.45	21.32	25.70	24.47	25.32	25.25	29.67	25.40	26.05	23.64	23.70
10	18.67	20.43	21.62	25.72	24.67	25.61	26.25	29.36	25.75	26.55	23.62	23.90
11	18.66	20.39	22.06	25.64	24.85	25.67	26.24	29.02	26.02	26.59	23.63	23.92
12	18.65	20.30	22.36	25.43	24.94	25.72	26.18	28.60	26.18	25.89	23.61	23.60
13	18.65	20.60	22.68	25.16	24.97	25.87	26.10	28.20	26.25	25.17	23.59	23.13
14	18.61	20.79	23.21	24.68	24.82	25.62	26.04	27.73	26.70	24.77	23.50	22.87
15	18.58	21.03	23.77	24.33	24.71	25.38	26.09	27.42	27.10	24.58	23.48	22.70
16	18.62	21.05	24.30	24.09	24.62	25.37	26.87	27.10	27.30	24.44	23.56	22.65
17	18.59	20.95	24.64	23.95	24.58	25.60	26.35	26.82	27.50	24.30	23.40	22.51
18	18.53	20.91	24.77	23.71	24.52	25.75	26.64	26.57	27.78	24.17	23.32	22.46
19	18.54	21.15	24.77	23.64	24.50	25.71	26.82	26.32	28.00	24.07	23.31	22.47
20	18.57	21.53	24.63	23.72	24.45	25.52	26.94	26.00	28.25	23.95	23.22	22.34
21	18.66	21.67	24.27	24.00	24.45	25.60	26.97	25.72	28.40	23.86	23.15	22.25
22	18.75	21.71	24.06	24.18	24.43	25.60	26.98	25.46	28.50	23.85	23.08	22.21
23	18.65	21.67	23.84	24.27	24.33	25.76	27.02	25.10	28.43	23.75	23.04	22.22
24	18.72	21.52	23.56	24.88	24.21	26.40	27.12	24.98	28.28	23.72	22.99	22.24
25	18.81	21.33	23.52	24.30	24.10	27.03	27.38	25.10	28.05	23.69	22.86	22.16
26	18.93	21.45	23.37	24.40	24.00	27.27	27.51	24.93	27.80	23.77	22.89	22.10
27	19.07	21.48	23.37	24.56	23.43	27.57	27.90	24.58	27.52	23.63	22.82	22.02
28	19.41	21.32	23.32	24.46	23.95	27.88	28.56	24.34	27.20	23.63	22.80	21.96
29	19.96	21.25	23.34	24.62	-----	28.00	28.99	24.18	26.88	23.62	22.12	21.93
30	20.41	21.25	23.08	24.67	-----	27.92	29.21	24.12	26.52	23.66	22.52	21.93
31	20.43	-----	23.19	24.75	-----	27.68	-----	24.23	-----	23.95	22.44	-----
MAX	20.43	21.71	24.77	25.72	24.99	28.00	29.21	29.95	28.50	26.65	24.18	23.92
MIN	18.53	19.75	21.19	23.21	23.43	23.86	26.04	24.12	24.05	23.62	22.12	21.93

SABINE RIVER BASIN

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08024400 Sabine River near Milam, Tex.

LOCATION.--Lat 31°28'01", long 93°44'41", Sabine Parish, La.-Sabine County, Tex. State line, on right bank at bridge on Texas State Highway 21, 6.5 miles northeast of Milam, 38 miles upstream from Toledo Bend Dam, and at mile 194.8.

DRAINAGE AREA.--7,178 sq mi (see station 08025350).

PERIOD OF RECORD.--Gage-height record, October 1966 to January 1968, December 1968 to October 1973 (published as Toledo Bend Reservoir near Milam, December 1968 to September 1970). Station discontinued. Discharge record, October 1923 to September 1925 (published as "Sabine River at Sabinetown"), January 1939 to September 1966.

GAGE.--Water-stage recorder. Datum of gage is 97.96 ft above mean sea level.

AVERAGE DISCHARGE.--29 years (1923-25, 1939-66), 4,982 cfs (3,607,000 acre-ft per year).

EXTREMES.--Current year: Maximum gage height, 74.94 ft May 2; minimum, 68.14 ft Oct. 15.

Period of gage-height record: Maximum gage height, 75.22 ft Mar. 20, 1969; minimum, 68.14 ft Oct. 15, 1972.

Period of discharge record 1923-25, 1939-66: Maximum discharge, 83,400 cfs Apr. 12, 1945 (gage height, 48.87 ft); minimum, 25 cfs Oct. 14-19, 1956.

REMARKS.--Station discontinued as daily streamflow station Sept. 30, 1966, due to backwater from storage in Toledo Bend Reservoir (station 08025350).

GAGE HEIGHT, IN FEET, AT 2400, OCTOBER 1972 TO JUNE 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68.41	69.08	70.83	72.58	73.17	73.34	74.33	74.83	73.55			
2	68.37	69.14	70.87	72.62	73.15	73.35	74.25	74.80	73.48			
3	68.40	69.20	70.89	72.62	73.09	73.34	74.25	74.82	73.54			
4	68.40	69.23	70.85	72.57	73.04	73.48	74.18	74.71	73.49			
5	68.40	69.27	70.88	72.68	73.02	73.50	74.18	74.61	73.55			
6	68.32	69.30	70.88	72.74	73.03	73.71	74.18	74.59	73.58			
7	68.32	69.28	70.90	72.97	73.06	73.86	74.23	74.83	73.61			
8	68.33	69.35	70.95	73.20	73.00	74.03	74.17	74.77	73.68			
9	68.28	69.38	70.97	73.33	73.19	74.17	74.20	74.59	73.77			
10	68.30	69.40	71.14	73.41	73.27	74.29	74.17	74.48	73.89			
11	68.29	69.45	71.27	73.43	73.29	74.39	74.15	74.45	74.00			
12	68.30	69.50	71.31	73.43	73.32	74.45	74.11	74.43	74.13			
13	68.29	69.64	71.45	73.42	73.56	74.47	74.08	74.42	74.30			
14	68.24	69.57	71.68	73.38	73.62	74.45	74.06	74.38	74.54			
15	68.19	69.75	71.76	73.31	73.67	74.41	73.99	74.37	74.71			
16	68.20	69.81	72.11	73.21	73.67	74.58	74.30	74.40	74.75			
17	68.20	69.83	72.27	73.10	73.65	74.48	74.58	74.45	74.72			
18	68.17	70.09	72.44	73.07	73.65	74.35	74.63	74.49	74.70			
19	68.18	70.15	72.56	73.04	73.65	74.32	74.64	74.52	74.67			
20	68.19	70.24	72.66	73.05	73.62	74.24	74.57	74.55	74.74			
21	68.21	70.31	72.72	73.14	73.61	74.20	74.47	74.54	74.72			
22	68.39	70.36	72.76	73.20	73.61	74.13	74.37	74.53	74.67			
23	68.31	70.43	72.72	73.23	73.60	74.07	74.40	74.51	74.64			
24	68.27	70.52	72.72	73.24	73.57	74.43	74.44	74.46	74.63			
25	68.36	70.63	72.69	73.30	73.53	74.62	74.52	74.41	74.65			
26	68.49	70.67	72.68	73.29	73.50	74.78	74.57	74.28	74.65			
27	68.58	70.72	72.64	73.28	73.44	74.77	74.65	74.15	74.63			
28	68.62	70.75	72.60	73.15	73.38	74.71	74.69	73.99	74.63			
29	68.73	70.80	72.51	73.21	-----	74.62	74.69	73.86	74.62			
30	68.89	70.83	72.62	73.14	-----	74.55	74.70	73.78	74.55			
31	68.99	-----	72.62	73.09	-----	74.43	-----	73.67	-----			
MEAN	68.37	69.89	71.87	73.11	73.39	74.21	74.36	74.44	74.26			
MAX	68.49	70.83	72.76	73.43	73.67	74.78	74.70	74.83	74.75			
MIN	68.17	69.05	70.63	72.57	73.00	73.34	73.99	73.67	73.48			

SABINE RIVER BASIN

08025350 Toledo Bend Reservoir near Burkeville, Tex.

LOCATION.--Lat 31°11'47", long 93°34'24", Sabine Parish, La.-Newton County, Tex. State line, on upstream side of dam near right abutment of spillway of Toledo Bend Dam on the Sabine River, 1.0 mile upstream from Bayou Toro, 15 miles northeast of Burkeville, and at mile 156.5.

DRAINAGE AREA.--7,178 sq mi.

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

GAGE.--Water-stage recorder.--Datum of gage is at mean sea level (levels by Sabine River Authority). Prior to July 20, 1967, non-recording gage read once daily at same site and datum.

EXTREMES.--Current year: Maximum contents, 4,700,000 acre-ft May 3 (elevation, 173.21 ft); minimum, 3,517,000 acre-ft Oct. 22 (elevation, 166.29 ft).

Period of record: Maximum contents, 4,739,000 acre-ft Mar. 21, 1969 (elevation, 173.42 ft); minimum since initial filling of reservoir in June 1968, 3,517,000 acre-ft Oct. 22, 1972 (elevation, 166.29 ft).

REMARKS.--Reservoir is formed by a rolled earthfill dam, 11,243 ft long, including dikes. Closure at embankment completed and deliberate impoundment was begun Oct. 3, 1966. Reservoir is operated for hydro-electric power generation and water conservation. A gate-controlled, gravity concrete, ogee weir is located near the left abutment of the dam. Net opening of 440 ft is controlled by eleven 40- by 28-foot tainter gates. A low-flow release sluiceway is located in an enlarged gate pier near the center of the spillway structure. This sluiceway is a single 8.33- by 12-foot concrete conduit controlled by a single gate. Two 20-inch-diameter conduits are provided which by-pass the sluice gate. Water for turbines is admitted through four 16.75- by 29-foot penstocks and controlled by vertically operated caterpillar-type gates. For statement regarding regulation by Soil Conservation Service floodwater-retarding structures, see Lake Fork Creek near Quitman (station 08019000). For statement regarding regulation by upstream reservoirs, see Sabine River near Logansport (station 08022500). Data regarding dam and reservoir are given in the following table:

	Elevation (feet)	Capacity (acre-feet)
Top of dam.....	185.0	-
Maximum design water surface.....	175.3	5,102,000
Top of gates.....	173.0	4,660,000
Top of power drawdown storage.....	172.0	4,476,000
Top of power head storage.....	162.2	2,922,000
Spillway crest (controlled).....	145.0	1,162,000
Invert of low-flow release sluiceway.....	100.00	4,090

COOPERATION.--Capacity table furnished by Sabine River Authority, based on Geological Survey 15-minute quadrangle sheets, scale 1:62,500 with 20-foot contour intervals.

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

166.5	3,550,000	170.0	4,123,000
168.0	3,788,000	172.0	4,476,000

CONTENTS, IN THOUSANDS OF ACRE-FEET, AT 2400, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,564	3,666	3,925	4,264	4,355	4,364	4,562	4,623	4,400	4,572	4,359	4,148
2	3,562	3,676	3,930	4,258	4,345	4,390	4,536	4,640	4,377	4,560	4,370	4,150
3	3,562	3,687	3,939	4,257	4,333	4,379	4,581	4,664	4,404	4,549	4,381	4,157
4	3,565	3,697	3,956	4,253	4,311	4,409	4,553	4,629	4,399	4,526	4,381	4,161
5	3,569	3,697	3,956	4,255	4,317	4,404	4,533	4,588	4,415	4,522	4,384	4,154
6	3,562	3,703	3,973	4,258	4,326	4,442	4,538	4,586	4,433	4,522	4,368	4,157
7	3,542	3,726	3,962	4,338	4,324	4,469	4,544	4,647	4,436	4,515	4,364	4,164
8	3,539	3,703	3,977	4,359	4,373	4,464	4,520	4,642	4,444	4,518	4,366	4,175
9	3,545	3,708	3,982	4,381	4,384	4,526	4,557	4,599	4,453	4,531	4,361	4,195
10	3,562	3,726	4,016	4,391	4,372	4,542	4,540	4,577	4,480	4,542	4,357	4,189
11	3,553	3,722	4,018	4,408	4,350	4,568	4,527	4,572	4,492	4,553	4,350	4,190
12	3,552	3,721	4,054	4,393	4,364	4,582	4,522	4,586	4,520	4,557	4,352	4,194
13	3,552	3,769	4,057	4,381	4,417	4,564	4,517	4,584	4,544	4,545	4,345	4,194
14	3,545	3,777	4,126	4,377	4,444	4,586	4,498	4,586	4,582	4,526	4,340	4,195
15	3,544	3,769	4,164	4,368	4,449	4,597	4,462	4,581	4,609	4,492	4,329	4,189
16	3,530	3,774	4,164	4,354	4,444	4,629	4,547	4,577	4,625	4,485	4,319	4,192
17	3,528	3,785	4,187	4,324	4,440	4,582	4,605	4,590	4,619	4,467	4,310	4,185
18	3,527	3,810	4,214	4,328	4,440	4,549	4,609	4,581	4,610	4,456	4,319	4,164
19	3,542	3,837	4,241	4,326	4,436	4,553	4,597	4,582	4,605	4,440	4,322	4,142
20	3,533	3,837	4,262	4,310	4,436	4,575	4,581	4,596	4,609	4,415	4,310	4,128
21	3,521	3,854	4,295	4,338	4,433	4,536	4,575	4,592	4,629	4,397	4,304	4,118
22	3,556	3,862	4,271	4,364	4,429	4,522	4,562	4,588	4,623	4,382	4,287	4,120
23	3,572	3,867	4,267	4,377	4,429	4,496	4,566	4,590	4,618	4,384	4,267	4,109
24	3,562	3,898	4,273	4,375	4,420	4,577	4,581	4,577	4,616	4,384	4,241	4,096
25	3,547	3,906	4,267	4,377	4,415	4,618	4,599	4,570	4,616	4,382	4,232	4,085
26	3,586	3,895	4,266	4,368	4,415	4,649	4,642	4,522	4,619	4,379	4,223	4,071
27	3,581	3,928	4,251	4,377	4,402	4,632	4,625	4,527	4,614	4,366	4,213	4,054
28	3,584	3,935	4,237	4,390	4,384	4,619	4,621	4,509	4,612	4,357	4,197	4,059
29	3,610	3,942	4,220	4,350	-----	4,616	4,603	4,478	4,599	4,355	4,185	4,049
30	3,615	3,934	4,258	4,335	-----	4,592	4,609	4,458	4,581	4,343	4,170	4,039
31	3,637	-----	4,257	4,329	-----	4,573	-----	4,426	-----	4,357	4,147	-----
(+)	167.06	168.88	170.77	171.18	171.49	172.53	172.72	171.72	172.57	171.34	170.14	169.51
(#)	64,000	297,000	233,000	72,000	55,000	189,000	36,000	-183,000	155,000	-224,000	-210,000	-108,000
MAX	3,637	3,942	4,295	4,408	4,449	4,649	4,642	4,690	4,629	4,572	4,384	4,195
MIN	3,521	3,666	3,925	4,253	4,311	4,364	4,462	4,426	4,377	4,343	4,147	4,039

CAL YR 1972..... † +82,000 MAX 4,295 MIN 3,521
WTR YR 1973..... † +466,000 MAX 4,690 MIN 3,521

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.

08025500 Bayou Toro near Toro, La.

LOCATION.--Lat 31°18'25", long 93°30'56", in SW¼ sec.20, T.4 N., R.11 W., Sabine Parish, near right bank on downstream side of bridge on State Highway 473, 0.2 mile upstream from Hamby Creek, 2.5 miles northeast of Toro, and 7.8 miles west of Hornbeck.

DRAINAGE AREA.--148 sq mi.

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 138.00 ft above mean sea level (Louisiana Geodetic Survey bench mark; levels by Louisiana Department of Public Works).

AVERAGE DISCHARGE.--18 years, 119 cfs (10.92 inches per year, 86,220 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 4,590 cfs Apr. 18 (gage height, 18.69 ft); minimum, 4.8 cfs Oct. 18, 19 (gage height, 2.73 ft).

Period of record: Maximum discharge, 31,200 cfs Apr. 9, 1968 (gage height, 25.73 ft) from rating curve extended above 18,000 cfs; minimum, 0.1 cfs Sept. 29, 30, Oct. 1-3, 1956; minimum gage height, 2.40 ft Sept. 30, Oct. 1, 1956.

REMARKS.--Records good. Records of water temperatures for the water year 1973 are published in Part 2 of this report.

REVISION.--WSP 1922: 1958(M), Drainage area.

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	14	124	60	109	767	87	156	96	28	30	20	15
2	12	66	49	129	735	85	128	203	27	27	27	13
3	10	50	43	274	301	84	116	409	25	37	42	16
4	7.7	144	46	348	195	210	104	247	23	46	26	15
5	6.8	125	51	285	159	184	93	135	26	54	16	132
6	6.3	68	60	1,170	140	452	89	105	46	130	15	390
7	6.0	47	52	1,230	129	1,390	325	1,240	61	149	15	258
8	5.8	49	50	1,300	243	1,090	428	1,300	41	207	16	89
9	5.7	58	100	887	723	486	277	753	43	153	23	49
10	5.7	35	372	346	481	370	226	214	39	68	21	34
11	5.4	26	767	285	247	434	144	148	41	46	17	28
12	5.4	21	472	270	185	335	110	122	84	40	18	27
13	5.4	190	252	267	500	195	94	109	466	40	21	33
14	5.1	412	262	268	1,710	161	85	96	543	29	30	34
15	5.0	175	1,430	252	1,330	225	146	84	1,300	25	17	30
16	5.0	87	1,100	201	560	2,000	2,020	75	1,030	22	14	23
17	5.1	57	418	162	267	2,320	2,400	67	346	21	13	20
18	5.0	172	207	153	210	1,970	4,050	62	160	20	12	18
19	32	490	175	182	180	589	2,540	57	114	21	18	16
20	52	291	499	173	156	274	1,090	53	86	19	27	15
21	21	136	901	1,130	138	211	399	49	141	17	18	16
22	21	91	807	1,140	126	171	283	43	193	18	14	15
23	75	69	355	541	128	164	221	40	100	37	12	14
24	52	57	211	239	133	1,190	184	37	71	60	11	15
25	21	173	158	197	120	1,690	160	37	56	43	9.8	19
26	31	239	128	608	108	1,500	210	114	47	25	9.3	20
27	404	143	110	649	100	434	218	137	41	57	11	20
28	229	95	97	419	93	242	152	73	36	50	16	18
29	81	94	90	320	-----	236	118	52	32	23	32	20
30	206	79	92	215	-----	215	103	35	29	17	38	23
31	311	-----	106	181	-----	185	-----	30	-----	15	21	-----
TOTAL	1,657.4	3,863	9,520	13,930	10,164	19,179	16,669	6,222	5,275	1,546	600.1	1,435
MEAN	53.5	129	307	449	363	619	556	201	176	49.9	19.4	47.8
MAX	404	490	1,430	1,300	1,710	2,320	4,050	1,300	1,300	207	42	390
MIN	5.0	21	43	109	93	84	85	30	23	15	9.3	13
CFSM	.36	.87	2.07	3.03	2.45	4.18	3.76	1.36	1.19	.34	.13	.32
IN.	.42	.97	2.39	3.50	2.55	4.82	4.19	1.56	1.33	.39	.15	.36
AC-FT	3,290	7,660	18,880	27,630	20,160	38,040	33,060	12,340	10,460	3,070	1,190	2,850
CAL YR 1972	TOTAL 49,966.6	MEAN 137	MAX 1,740	MIN 5.0	CFSM .93	IN 12.56	AC-FT 99,110					
WTR YR 1973	TOTAL 90,060.5	MEAN 247	MAX 4,050	MIN 5.0	CFSM 1.67	IN 22.64	AC-FT 178,600					

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	0700	11.89	1,570	3-25	0045	12.82	1,850
1- 7	2315	11.53	1,460	4-16	1200	15.64	2,860
1-21	0945	11.24	1,380	4-18	0915	18.69	4,590
2-14	0245	12.90	1,870	5- 7	1345	12.48	1,740
3- 7	0330	11.82	1,550	6-15	0700	11.27	1,390
3-16	1300	15.46	2,780				

08026000 Sabine River below Toledo Bend near Burkeville, Tex.

LOCATION.--Lat 31°03'50", long 93°31'10", Newton County, Tex.--Vernon Parish, La. State line, near left edge of low-water channel at downstream side of bridge on State Highway 63, about 200 ft downstream from Pearl Creek, 10 miles northeast of Burkeville, 16 miles downstream from Bayou Toro, and at mile 139.7.

DRAINAGE AREA.--7,482 sq mi.

PERIOD OF RECORD.--September 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 70.59 ft above mean sea level. Prior to Aug. 23, 1958, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--11 years (1955-66), 4,653 cfs (3,371,000 acre ft per year), prior to completion of Toledo Bend Reservoir; 7 years (1966-73), 4,144 cfs (3,002,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 39,400 cfs May 10 (gage height, 29.11 ft); minimum daily, 147 cfs Oct. 4.
Period of record: Maximum discharge, 52,900 cfs May 15, 1957 (gage height, 32.43 ft); minimum daily, 38 cfs Sept. 14, 15, 1967.
Maximum stage since at least 1860, 35.9 ft in May 1884, from information by local resident. Flood of Apr. 15, 1945, reached a stage of 35.8 ft, and flood of May 23, 1953, reached a stage of 35.3 ft, from floodmarks.

REMARKS.--Records fair. Flow regulated by Toledo Bend Reservoir (station 08025350), 16.8 miles upstream (capacity, 4,600,000 acre-ft).

REVISIONS.--WSP 1732: Drainage area.

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	315	450	824	7,060	16,400	6,580	26,400	15,500	9,560	15,000	4,000	2,500
2	184	400	1,120	7,180	16,500	3,910	24,800	21,200	6,090	15,000	3,500	470
3	152	400	325	8,970	15,700	1,870	17,400	28,700	1,870	14,500	3,000	610
4	147	500	622	11,100	15,100	1,150	15,200	33,600	5,170	13,600	1,400	8,000
5	164	450	573	8,850	13,200	3,050	14,800	31,800	7,010	13,800	380	8,000
6	821	350	439	8,060	7,900	3,970	14,800	28,900	4,100	8,000	3,200	4,680
7	1,090	255	380	8,800	6,940	4,420	15,500	27,700	4,030	6,000	3,300	4,940
8	265	273	354	11,200	7,300	2,970	15,500	32,000	3,850	7,000	3,200	3,900
9	234	261	383	15,800	8,380	2,250	15,200	37,200	2,190	7,000	3,000	594
10	226	259	892	16,200	8,020	6,340	15,200	38,600	765	7,000	3,200	4,610
11	223	245	1,910	15,500	7,300	7,060	15,300	33,400	2,320	8,000	700	8,200
12	223	255	2,100	15,300	6,940	7,060	15,000	27,700	4,690	10,500	300	8,670
13	223	409	2,000	15,200	7,540	7,360	14,800	22,200	6,070	11,000	3,000	8,440
14	1,120	664	1,620	15,300	11,100	12,900	14,800	19,400	10,400	11,000	3,000	8,170
15	1,890	602	3,390	15,400	9,540	14,500	15,000	18,400	16,900	11,000	3,000	4,490
16	1,100	465	2,680	15,500	8,260	21,900	18,700	12,200	17,600	11,000	3,200	544
17	1,400	319	1,120	15,400	7,420	30,300	22,600	8,140	19,700	10,500	5,000	4,590
18	640	445	950	13,500	6,940	29,000	31,200	7,660	19,900	10,000	500	8,200
19	1,180	1,040	3,120	7,890	6,760	22,000	33,800	7,540	19,700	9,500	400	6,560
20	364	814	7,830	7,230	6,940	16,800	33,300	7,540	18,500	9,000	6,500	7,480
21	341	542	9,980	9,090	6,940	15,200	31,700	7,540	17,100	8,000	4,000	7,160
22	349	873	10,600	9,160	6,940	14,500	29,400	7,540	24,500	7,000	3,300	3,690
23	490	695	10,800	7,900	6,940	14,500	23,900	7,420	21,000	2,000	8,000	505
24	412	339	9,370	7,110	6,820	17,100	18,000	7,980	19,000	250	9,000	4,740
25	352	424	7,130	8,750	6,820	19,000	15,900	8,810	17,000	1,700	5,000	8,200
26	330	545	5,580	14,700	6,820	17,600	15,800	13,100	16,000	2,830	1,000	8,140
27	600	503	6,940	16,100	6,940	18,200	15,800	15,100	15,000	7,060	10,000	9,010
28	580	398	6,940	15,800	6,700	24,300	15,600	15,300	15,000	2,990	9,000	7,140
29	450	337	6,940	15,400	-----	26,000	15,500	15,300	15,000	610	9,500	6,170
30	550	322	7,060	15,300	-----	26,200	15,500	9,690	15,000	1,930	9,800	5,810
31	550	-----	7,300	15,300	-----	26,700	-----	8,060	-----	6,580	8,000	-----
TOTAL	16,966	13,801	1,228,872	374,060	248,980	424,690	586,400	575,220	355,015	249,400	130,380	164,253
MEAN	547	460	3,964	12,070	8,032	13,700	19,550	18,560	11,430	8,045	4,206	5,475
MAX	1,890	1,040	10,600	16,200	16,500	30,300	33,800	38,600	24,500	15,000	10,000	9,010
MIN	147	255	325	7,060	6,700	1,150	14,800	7,420	765	250	300	470
AC-FT	33,750	27,370	2,437,000	7,119,000	493,900	842,400	1,115,300	1,141,100	704,200	494,700	258,600	325,800

CAL YR 1972 TOTAL 1,351,115 MEAN 3,642 MAX 19,100 MIN 147 AC-FT 2,680,000
WTR YR 1973 TOTAL 3,262,037 MEAN 8,937 MAX 38,600 MIN 147 AC-FT 6,470,000

NOTE.--No gate-height record June 23 to July 26, Aug. 1 to Sept. 5.

08028000 Bayou Anacoco near Rosepine, La.

LOCATION.--Lat 30°57'10", long 93°21'10", on line between secs. 25 and 26, T.1 S., R.10 W., Vernon Parish, near center of span on downstream side of bridge on parish road from Rosepine to Evans, just downstream from Pocosin Creek, and 4.8 miles northwest of Rosepine.

DRAINAGE AREA.--365 sq mi.

PERIOD OF RECORD.--October 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 118.09 ft above mean sea level, unadjusted. Prior to Nov. 11, 1954, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--22 years, 419 cfs (15.59 inches per year, 303,600 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 14,400 cfs Apr. 19 (gage height, 22.15 ft); minimum, 11 cfs Oct. 18 (gage height, 2.77 ft).

Period of record: Maximum discharge, 64,300 cfs May 19, 1953 (gage height, 28.38 ft); minimum, 5.5 cfs Sept. 30, 1956.

REMARKS.--Records good. Some effect from storage in Anacoco Lake (usable capacity 41,300 acre-ft) except January 1956 to September 1958 and Lake Vernon (usable capacity 58,000 acre-ft) since May 1963. Records of water temperatures for the water year 1973 are published in Part 2 of this report.

REVISIONS.--WSP 2122: Drainage area.

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	88	208	163	644	2,210	292	708	471	94	116	629	231
2	45	190	142	919	2,890	287	584	2,190	84	105	962	166
3	32	180	130	1,070	2,650	282	480	2,660	73	109	880	128
4	26	207	488	1,110	1,320	842	402	2,780	70	94	470	140
5	22	223	1,260	904	781	1,060	340	2,110	126	240	279	983
6	20	195	642	822	629	675	314	979	208	430	238	2,080
7	18	171	398	1,280	541	653	975	3,050	142	592	338	2,060
8	17	162	277	2,150	751	751	2,220	11,300	107	512	226	1,690
9	17	141	352	2,220	1,790	759	1,310	5,950	129	390	162	882
10	16	120	577	1,660	1,940	689	826	4,370	132	300	133	563
11	15	106	1,650	1,170	1,370	905	618	2,690	214	232	113	404
12	14	90	1,740	987	907	943	485	1,360	619	185	96	486
13	13	169	1,380	884	849	703	396	949	1,230	154	94	1,090
14	13	410	1,060	794	2,410	554	343	688	1,530	123	90	989
15	13	346	2,130	701	2,980	534	368	553	3,380	103	81	613
16	12	248	2,850	605	3,140	1,360	1,930	424	3,760	94	76	413
17	12	200	3,030	519	2,490	2,880	3,660	359	2,990	93	72	292
18	12	298	2,420	454	1,430	4,420	13,200	316	1,760	83	69	220
19	15	1,090	1,330	420	952	5,380	11,100	278	968	73	66	172
20	20	992	1,040	383	739	3,150	6,720	254	743	64	64	137
21	25	554	1,440	1,160	604	1,660	3,410	227	1,230	57	68	116
22	33	410	1,830	2,090	514	1,050	2,510	202	1,100	83	61	103
23	120	324	1,680	2,180	500	838	1,620	171	621	214	52	94
24	127	265	1,240	1,570	470	2,170	1,110	150	430	119	44	136
25	59	317	913	1,000	431	6,240	962	181	327	117	39	164
26	45	378	682	1,190	387	8,850	794	172	264	136	37	149
27	147	330	531	1,410	357	4,820	882	160	214	149	39	122
28	230	278	432	1,260	325	2,740	690	139	172	173	95	196
29	166	241	370	1,130	-----	1,490	748	118	150	167	301	338
30	190	194	372	870	-----	1,080	500	104	128	344	418	301
31	226	-----	538	681	-----	886	-----	100	-----	325	364	-----
TOTAL	1,808	9,037	33,087	34,237	36,357	58,943	60,205	45,455	22,995	5,976	6,656	15,458
MEAN	58.3	301	1,067	1,104	1,298	1,901	2,007	1,466	767	193	215	515
MAX	230	1,090	3,030	2,220	3,140	8,850	13,200	11,300	3,760	592	962	2,080
MIN	12	90	130	383	325	282	314	100	70	57	37	94
CFSM	.16	.82	2.92	3.02	3.56	5.21	5.50	4.02	2.10	.53	.59	1.41
IN.	.18	.92	3.37	3.49	3.71	6.01	6.14	4.63	2.34	.61	.68	1.58
AC-FT	3,590	17,920	65,630	67,910	72,110	116,900	119,400	90,160	45,610	11,850	13,200	30,660
CAL YR 1972	TOTAL 150,368	MEAN 411	MAX 5,080	MIN 12	CFSM 1.13	IN 15.33	AC-FT 298,300					
WTR YR 1973	TOTAL 330,214	MEAN 905	MAX 13,200	MIN 12	CFSM 2.48	IN 33.65	AC-FT 655,000					

SABINE RIVER BASIN

08028200 Bayou Anacoco near Knight, La.

LOCATION.--Lat 30°52'14", long 93°30'38", in SE¼ sec.20, T.2 S., R.11 W., on line between Beauregard-Vernon Parish, near right bank of low-water channel at downstream side of bridge on State Highway 111, 4.9 miles southwest of Knight, and 5.2 miles upstream from mouth.

DRAINAGE AREA.--425 sq mi.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1956-64. August 1969 to current year. Station discontinued Sept. 30, 1973.

GAGE.--Water-stage recorder. Datum of gage is 68.61 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 7,380 cfs Apr. 19 (gage height, 22.09 ft); minimum, 74 cfs Oct. 12-13, 18 (gage height, 6.36 ft).

Period of record: Maximum discharge, 7,380 cfs Apr. 19, 1973 (gage height, 22.09 ft); minimum, 11 cfs June 7, 1971 (gage height, 5.62 ft).

REMARKS.--Records good, except those for period of no gage-height record which are fair. Some effect from storage in Anacoco Lake (usable capacity, 41,300 acre-ft) except January 1956 to September 1958 and Lake Vernon (usable capacity, 58,000 acre-ft) since May 1963. Water used by paper mill at De Ridder is pumped from wells and discharged later as waste into bayou above station. This discharge is not continuous but is stored in a reservoir and is released whenever the flow of bayou is sufficient to dilute effluent from mill. Record of chemical analyses and water temperatures for the water year 1973 are published in Part 2 of this report.

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	147	285	293	845	2,410	468	1,230	758	210	284	800	395
2	151	272	268	1,100	3,130	440	1,040	2,230	200	264	1,300	317
3	125	257	245	1,290	3,230	435	863	4,310	190	255	1,500	266
4	116	255	252	1,350	2,510	692	728	3,790	180	248	1,000	266
5	111	273	1,150	1,210	1,250	1,400	620	3,470	200	515	700	1,060
6	106	277	1,040	1,010	955	1,040	553	2,170	411	1,120	500	2,170
7	89	259	614	1,290	818	800	1,470	3,140	339	863	700	2,320
8	80	239	431	2,310	914	872	2,300	5,030	266	803	600	2,210
9	77	215	433	2,540	2,000	920	1,990	5,780	243	632	470	1,460
10	82	190	540	2,320	2,350	863	1,340	6,310	295	503	380	896
11	91	171	1,320	1,640	2,060	952	969	5,350	381	429	320	662
12	80	156	1,840	1,330	1,380	1,110	776	3,370	764	369	260	581
13	78	233	1,700	1,160	1,130	945	650	1,820	1,460	321	240	1,190
14	78	409	1,300	1,050	2,450	758	558	1,290	1,820	273	230	1,540
15	77	425	1,800	908	3,120	698	538	976	3,900	243	210	987
16	77	357	2,650	809	3,350	1,010	1,960	782	3,940	235	170	695
17	75	313	2,970	719	3,370	2,590	3,630	653	4,020	255	160	518
18	75	311	3,050	632	2,440	3,380	5,220	578	3,380	220	140	415
19	77	881	2,080	566	1,500	4,090	6,950	510	1,780	170	135	363
20	80	1,150	1,390	528	1,130	4,390	7,060	455	1,370	140	130	317
21	88	809	1,650	1,040	920	2,970	6,270	423	2,280	120	150	282
22	99	540	1,980	2,120	791	1,520	5,100	395	1,750	200	135	259
23	157	443	2,020	2,390	737	1,100	3,410	350	1,190	350	120	250
24	207	381	1,650	2,220	707	3,020	2,050	330	791	280	110	279
25	214	403	1,210	1,460	650	5,620	1,500	310	608	210	105	311
26	169	450	917	1,340	593	5,380	1,280	290	503	190	100	299
27	195	435	740	1,630	543	5,930	1,180	270	431	210	98	268
28	391	379	665	1,600	508	5,270	1,070	250	367	230	97	345
29	315	353	608	1,420	-----	3,220	938	240	333	270	96	533
30	252	323	632	1,180	-----	1,860	812	230	307	350	200	463
31	272	-----	773	934	-----	1,520	-----	220	-----	500	528	-----
TOTAL	4,231	11,445	38,211	41,941	46,946	65,263	64,055	56,080	33,909	11,052	11,684	21,917
MEAN	136	382	1,233	1,353	1,677	2,105	2,135	1,809	1,130	357	377	731
MAX	391	1,150	3,050	2,540	3,370	5,930	7,060	6,310	4,020	1,120	1,500	2,320
MIN	75	156	245	528	508	435	538	220	180	120	96	250
CFSM	.32	.90	2.90	3.18	3.95	4.95	5.02	4.26	2.66	.84	.89	1.72
IN.	.37	1.00	3.34	3.67	4.11	5.71	5.61	4.91	2.97	.97	1.02	1.92
AC-FT	8,390	22,700	75,790	83,190	93,120	129,400	127,100	111,200	67,260	21,920	23,180	43,470

CAL YR 1972 TOTAL 192,145 MEAN 525 MAX 4,260 MIN 57 CFSM 1.24 IN 16.82 AC-FT 381,100
WTR YR 1973 TOTAL 406,734 MEAN 1,114 MAX 7,060 MIN 75 CFSM 2.62 IN 35.60 AC-FT 806,800

NOTE.--No gage-height record July 18 to Aug. 30.

08028500 Sabine River near Bon Wier, Tex.

LOCATION.--Lat 30°44'49", long 93°36'30", Beauregard Parish, La.-Newton County, Tex. State line, near left bank at downstream side of bridge on U.S. Highway 190, 0.7 mile upstream from Quicksand Creek, 0.8 mile upstream from Gulf, Colorado, and Santa Fe Railway Co. bridge, 2.0 miles east of Bon Wier, 2.4 miles upstream from Caney Creek, and at mile 97.7.

DRAINAGE AREA.--8,229 sq mi.

PERIOD OF RECORD.--October 1923 to current year. Monthly discharge only for some periods, published in WSP 1312. Gage-height records collected in this vicinity since 1913 are contained in reports of U.S. Weather Bureau.

GAGE.--Water stage recorder. Datum of gage is 46.42 ft above mean sea level. Prior to July 8, 1931, nonrecording gage at site 0.8 mile downstream at same datum. July 8, 1931, to Oct. 15, 1958, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--43 years (1923-66), 6,846 cfs (4,960,000 acre-ft per year), prior to completion of Toledo Bend Reservoir; 7 years (1966-73), 4,990 cfs (3,615,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 41,600 cfs May 11 (gage height, 21.52 ft); minimum daily, 400 cfs Oct. 14.

Period of record: Maximum discharge, 115,000 cfs May 19, 1953 (gage height, 25.70 ft); minimum daily, 134 cfs Nov. 9, 1966.

Maximum stage since at least 1833, 30.5 ft Apr. 23 or 24, 1913, from information by Gulf, Colorado, and Santa Fe Railway Co. and local residents. Flood in May 1884 reached a stage of 26 ft. Floods occurring about 1844 and 1860 were higher than flood in May 1884, from information by local residents.

REMARKS.--Records fair. Flow regulated by Toledo Bend Reservoir (station 08025350) located 58.8 miles upstream. Records of chemical analyses are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1342: 1953. WSP 1442: 1924, 1926-27(M), 1929(M), 1939. WSP 1732: Drainage area.

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	2,620	1,300	885	8,200	19,200	8,200	29,900	16,600	8,340	16,000	7,300	8,360
2	496	1,160	1,240	8,870	21,600	7,220	29,500	19,300	9,500	15,000	7,430	3,760
3	670	955	1,550	9,480	20,300	5,500	28,700	29,500	7,000	15,000	6,300	1,350
4	560	980	915	11,300	19,000	3,920	20,300	33,700	4,000	15,000	4,290	1,140
5	510	1,160	1,690	12,200	17,100	4,750	17,200	34,900	6,000	15,000	2,030	6,750
6	482	1,020	2,340	9,940	13,000	5,960	16,600	34,400	8,000	14,000	1,440	12,000
7	425	880	1,600	12,000	9,250	6,240	18,300	34,600	6,500	12,000	3,480	7,340
8	1,250	760	1,030	14,000	9,000	6,460	20,300	38,500	5,000	10,000	4,510	8,340
9	578	690	1,260	15,000	10,000	4,720	19,400	38,100	4,500	9,090	4,340	5,270
10	462	634	1,430	17,000	11,000	5,300	18,300	39,100	3,000	8,580	4,000	2,240
11	440	594	3,260	17,500	11,000	8,600	17,200	41,000	2,200	8,220	3,870	6,150
12	427	565	5,200	17,200	10,000	9,130	16,800	38,900	3,000	8,700	2,170	8,470
13	406	730	8,100	16,800	12,000	8,920	16,400	34,400	7,500	10,600	1,120	9,080
14	400	1,500	9,200	16,600	15,400	10,200	16,200	28,100	11,000	11,600	2,510	9,510
15	1,200	1,200	8,700	16,500	16,800	14,300	16,200	23,700	20,000	12,000	3,730	9,230
16	1,720	1,000	7,600	16,500	16,400	17,700	20,100	19,000	23,000	12,000	3,720	4,310
17	1,310	900	6,100	16,400	16,400	15,200	27,600	17,000	24,000	11,500	3,740	1,730
18	1,460	800	5,100	16,200	11,100	32,300	34,100	9,740	22,500	11,000	5,550	6,010
19	475	1,200	3,900	12,500	9,700	32,600	37,900	8,910	22,000	11,000	2,990	8,100
20	1,280	2,000	5,520	8,960	9,100	29,200	40,300	8,590	21,500	11,000	1,130	7,500
21	686	1,800	11,000	9,910	8,900	23,400	40,500	8,220	21,000	10,500	5,470	7,500
22	630	1,630	13,000	13,200	8,700	19,200	38,300	8,220	22,000	9,000	4,770	7,500
23	880	1,300	14,000	12,100	8,600	17,200	35,500	8,220	27,000	8,000	4,970	3,300
24	1,000	1,100	13,000	10,600	8,600	21,800	30,200	8,220	24,000	5,500	6,180	1,450
25	815	1,200	11,500	9,570	8,600	31,600	22,900	8,830	22,000	5,000	7,780	5,740
26	690	1,600	10,000	12,800	8,500	30,200	19,300	10,700	20,000	4,860	6,020	8,220
27	1,060	1,600	8,700	17,200	8,500	27,400	18,700	14,400	18,000	4,750	2,720	7,980
28	1,080	1,400	8,400	18,100	8,400	28,100	17,700	15,200	17,000	7,280	5,310	8,100
29	1,460	1,150	7,860	17,700	-----	30,200	17,200	15,400	17,000	3,020	7,750	7,500
30	1,220	985	7,700	16,800	-----	30,600	16,900	14,100	17,000	1,370	8,260	7,170
31	1,400	-----	8,000	16,800	-----	30,200	-----	9,480	-----	4,260	8,460	-----
TOTAL	30,092	33,802	190,420	427,930	346,150	526,320	716,500	669,030	423,540	300,830	143,340	191,100
MEAN	971	1,127	6,143	13,800	12,360	16,980	23,480	21,580	14,120	9,704	4,624	6,370
MAX	2,620	2,000	14,000	18,100	21,600	32,600	40,500	41,000	27,000	16,000	8,460	12,000
MIN	400	565	885	8,200	8,400	3,920	16,200	8,220	2,200	1,370	1,120	1,140
AC-FT	59,690	67,050	377,700	348,800	686,600	1,044M	1,421M	1,327M	840,100	596,700	284,300	379,000

CA_YR 1972 TOTAL 1,740,495 MEAN 4,757 MAX 23,700 MIN 400 AC-FT 3,453,000
 WTR_YR 1973 TOTAL 3,999,054 MEAN 10,960 MAX 41,000 MIN 400 AC-FT 7,932,000

SABINE RIVER BASIN

08028700 Hoosier Creek near Merryville, La.

LOCATION.--Lat 30°43'32", long 93°33'36", in SE¼ sec.11, T.4 S., R.12 W., Beauregard Parish, near right bank on downstream side of bridge on State Highway 389, 2 miles upstream from Pullem Branch, and 2 miles south of Merryville.

DRAINAGE AREA.--13.1 sq mi.

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 60.53 ft above mean sea level.

AVERAGE DISCHARGE.--18 years, 14.1 cfs (14.62 inches per year, 10,220 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,560 cfs Mar. 24 (gage height, 12.86 ft); minimum, 1.7 cfs Oct. 18, 19 (gage height, 0.82 ft).

Period of record: Maximum discharge, 1,560 cfs Mar. 24, 1973 (gage height, 12.86 ft); minimum, 0.80 cfs Sept. 14, 15, 16, 17, 18, 19, 1965.

REMARKS.--Records good. Records of water temperatures for the water year 1973 are published in Part 2 of this report.

REVISIONS.--WSP 1732: Drainage area.

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	2.9	3.3	4.1	12	76	10	8.1	7.9	5.4	7.2	144	5.4
2	2.6	3.0	3.9	41	51	10	6.5	87	5.6	11	97	4.7
3	2.4	3.0	3.9	32	17	10	6.0	379	5.4	13	23	4.6
4	2.2	3.3	3.9	29	12	18	5.9	54	5.1	11	14	7.6
5	2.1	3.3	4.8	15	9.7	18	5.7	20	5.1	126	13	101
6	2.1	2.9	13	21	9.5	13	5.9	14	12	168	26	77
7	2.0	2.8	9.7	46	9.3	12	68	393	6.8	52	22	30
8	2.0	2.7	7.4	100	26	11	52	192	5.6	47	14	16
9	1.9	2.7	8.9	34	112	10	17	43	7.8	19	13	11
10	1.9	2.6	12	19	46	11	11	23	9.3	12	12	8.9
11	1.9	2.5	18	19	22	19	7.8	18	11	10	12	8.5
12	1.9	2.5	10	20	15	14	6.3	19	29	9.8	11	23
13	1.9	32	9.9	20	40	10	6.0	17	33	9.0	11	80
14	1.8	31	11	18	391	9.7	5.9	12	49	8.2	10	37
15	1.8	8.9	47	14	62	15	7.9	9.5	161	7.8	10	19
16	1.8	5.9	27	12	28	27	146	8.5	37	7.4	9.9	12
17	1.8	4.8	11	11	21	37	199	7.9	20	7.0	9.7	9.7
18	1.8	17	8.1	11	17	13	342	7.6	15	6.7	10	8.7
19	1.8	50	7.2	9.7	15	8.7	56	6.8	13	7.2	10	7.9
20	1.8	14	13	9.5	14	8.1	30	6.7	11	6.7	9.3	7.6
21	1.9	7.2	42	98	13	7.2	24	6.3	13	6.2	7.0	6.8
22	2.1	5.6	30	75	12	6.5	19	6.3	11	5.9	5.4	6.5
23	11	5.0	13	21	13	8.9	16	6.3	10	5.7	5.1	6.5
24	4.8	5.0	9.3	14	13	482	16	6.3	9.5	5.4	4.6	12
25	2.7	10	7.6	13	12	241	12	6.2	8.9	8.3	4.6	13
26	2.5	9.3	6.7	45	11	42	13	6.2	8.4	6.5	4.4	8.9
27	15	6.0	6.0	31	10	20	12	6.0	8.0	5.9	5.1	7.2
28	8.9	5.0	5.7	29	10	14	8.5	5.9	7.8	5.4	7.2	31
29	4.3	4.6	5.6	23	-----	12	7.2	5.7	7.5	21	6.2	51
30	3.7	4.3	8.3	14	-----	11	23	5.6	7.3	130	12	16
31	3.7	-----	14	14	-----	9.9	-----	5.4	-----	21	8.3	-----
TOTAL	101.0	260.2	382.0	870.2	1,087.5	1,139.0	1,143.7	1,392.1	538.5	767.3	550.8	638.5
MEAN	3.26	8.67	12.3	28.1	38.8	36.7	38.1	44.9	18.0	24.8	17.8	21.3
MAX	15	50	47	100	391	482	342	393	161	168	144	101
MIN	1.8	2.5	3.9	9.5	9.3	6.5	5.7	5.4	5.1	5.4	4.4	4.6
CFSM	.25	.66	.94	2.15	2.96	2.80	2.91	3.43	1.37	1.89	1.36	1.63
IN.	.29	.74	1.08	2.47	3.09	3.23	3.25	3.95	1.53	2.18	1.56	1.81
AC-FT	200	516	758	1,730	2,160	2,260	2,270	2,760	1,070	1,520	1,090	1,270

CAL YR 1972 TOTAL 2,775.1 MEAN 7.58 MAX 206 MIN 1.6 CFSM .58 IN 7.88 AC-FT 5,500
WTR YR 1973 TOTAL 8,870.8 MEAN 24.3 MAX 482 MIN 1.8 CFSM 1.86 IN 25.19 AC-FT 17,600

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-14	0430	9.55	753	5-3	0330	9.05	643
3-24	1630	12.86	1,560	5-7	1715	10.02	857
4-18	0200	9.17	669	8-1	1915	8.14	450

SABINE RIVER BASIN

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08030500 Sabine River near Ruliff, Tex.

LOCATION.--Lat 30°18'13", long 93°44'37", Calcasieu Parish, La.--Newton County, Tex. State line, at downstream side of bridge on Texas State Highway 12, 2.4 miles north of Ruliff, 4.2 miles upstream from the Kansas City Southern Railway Co. bridge, 4.5 miles downstream from Cypress Creek, and at mile 40.2.

DRAINAGE AREA.--9,329 sq mi.

PERIOD OF RECORD.--October 1924 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4.08 ft above mean sea level. Prior to Mar. 1, 1941, nonrecording gage at Kansas City Southern Railway Co. bridge, 4.2 miles downstream and at datum 2.02 ft lower. Mar. 1, 1941, to Dec. 8, 1948, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--42 years (1924-66), 8,422 cfs (6,102,000 acre-ft per year), prior to completion of Toledo Bend Reservoir; 7 years (1966-72), 6,487 cfs (4,700,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 47,600 cfs Apr. 20, 21 (gage height, 16.10 ft); minimum daily, 694 cfs Oct. 15.

Period of Record: Maximum discharge, 121,000 cfs May 22, 1953 (gage height, 19.98 ft); minimum, 270 cfs Sept. 27-30, Oct. 1-3, 17-20, 1956.

Maximum stage since at least 1835, 22.2 ft in May or June 1884 (adjusted to present site and datum on basis of slope of flood of June 8, 9, 1950); flood of Apr. 26-29, 1913, reached a stage of 19.5 ft, present site and datum, from information by local resident.

REMARKS.--Records good. Flow partly regulated by Toledo Bend Reservoir (station 08025350) 116.3 miles upstream.

REVISIONS (WATER YEARS).--WSP 1282: 1941(M), 1942. WSP 1442: 1925-29, 1937-39, 1943. WSP 1732: Drainage area.

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	8,530	2,360	1,820	11,200	20,700	10,700	27,100	18,800	16,500	17,800	5,750	9,460
2	7,540	2,450	1,620	11,800	20,900	10,700	26,800	19,700	16,100	16,800	5,950	9,880
3	4,420	2,130	1,560	12,600	21,600	10,600	26,500	20,800	13,300	15,900	3,420	9,330
4	2,280	1,810	2,010	13,300	23,000	10,400	25,700	21,300	11,700	16,000	9,550	7,560
5	1,460	1,640	1,880	14,100	24,000	9,660	24,800	25,300	9,570	16,500	10,100	6,900
6	1,160	1,850	2,270	15,100	23,400	8,510	22,700	31,400	7,570	16,500	9,650	9,570
7	1,010	1,910	3,350	16,500	21,800	8,130	21,200	34,800	7,770	16,500	7,030	12,600
8	977	1,640	3,440	17,500	20,400	8,340	19,900	36,000	7,920	17,300	5,350	15,100
9	1,540	1,430	3,020	17,800	19,000	8,560	19,500	38,300	7,430	16,800	5,660	15,900
10	1,340	1,260	2,720	17,900	17,700	8,400	20,000	43,200	7,230	15,600	6,270	15,800
11	967	1,140	2,760	18,300	17,200	7,630	20,400	43,600	6,740	14,200	5,470	13,900
12	825	1,060	4,120	19,200	17,600	8,100	20,000	41,300	5,260	13,000	6,110	10,500
13	770	1,210	5,920	20,400	17,900	9,260	19,200	40,600	6,300	12,000	5,470	11,300
14	731	2,020	6,880	21,000	18,000	10,200	18,500	37,100	9,450	11,400	3,930	13,800
15	694	2,870	6,920	20,900	17,800	10,900	18,300	32,900	12,900	11,400	3,160	14,700
16	767	3,360	7,140	20,400	18,400	11,700	19,200	27,600	15,200	12,000	4,320	14,000
17	1,750	2,940	8,580	20,000	20,200	13,100	21,400	23,300	17,400	12,600	5,050	12,900
18	1,560	2,430	9,930	19,800	21,500	15,200	27,400	20,300	22,200	12,400	5,260	10,000
19	1,780	2,770	10,300	19,600	20,600	18,100	35,900	18,100	25,500	13,000	5,540	7,210
20	1,440	3,920	9,420	19,300	18,600	24,300	44,300	16,100	25,000	13,100	5,930	7,440
21	1,440	5,050	8,560	19,200	16,500	29,100	47,300	14,200	23,900	12,900	4,390	8,400
22	1,450	4,930	9,560	18,000	14,800	28,400	46,100	12,800	22,400	12,500	3,640	8,670
23	1,330	3,830	11,400	16,800	13,500	26,300	43,400	11,700	21,500	12,000	5,300	8,860
24	1,270	2,950	13,300	16,400	12,500	28,400	39,900	11,000	21,300	11,400	5,710	8,880
25	1,530	2,740	14,800	16,800	11,900	31,900	35,500	10,500	21,500	10,700	5,960	6,790
26	1,580	2,400	15,800	17,200	11,500	35,200	31,100	10,100	21,400	8,280	5,700	6,300
27	1,510	2,600	15,800	17,000	11,200	39,200	25,800	10,100	20,400	5,560	7,590	8,140
28	1,500	2,770	14,800	16,900	10,900	37,200	22,200	10,500	19,100	5,660	7,540	9,700
29	2,210	2,460	13,200	17,600	-----	32,400	20,400	11,400	18,000	7,170	6,220	11,100
30	2,540	2,110	12,000	17,900	-----	28,400	19,300	12,600	17,100	8,250	5,920	11,100
31	2,310	-----	11,200	19,700	-----	27,100	-----	14,600	-----	7,070	4,220	-----
TOTAL	60,211	74,040	236,080	540,200	503,200	566,090	809,800	720,000	457,640	392,790	194,160	315,790
MEAN	1,942	2,468	7,615	17,430	17,970	18,260	26,490	23,230	15,250	12,670	6,263	10,530
MAX	8,530	5,050	15,800	21,000	24,000	39,200	47,300	43,600	25,500	17,800	10,100	15,900
MIN	694	1,060	1,560	11,200	10,900	7,630	18,300	10,100	5,260	5,560	3,160	6,300
AC-FT	119,400	146,900	468,300	1,071M	998,100	1,123M	1,606M	1,428M	907,700	779,100	385,100	626,400

CAL YR 1972 TOTAL 2,235,645 MEAN 6,108 MAX 27,100 MIN 694 AC-FT 4,434,000
WTR YR 1973 TOTAL 4,870,001 MEAN 13,340 MAX 47,300 MIN 694 AC-FT 9,650,000

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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 annual maximum stage and discharge at crest-stage stations and the second is a table of peak elevations at flood-profile stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in a third table.

Crest-stage partial-record stations

The following table contains annual maximum discharge 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, and discharge measurements may have been made for purposes of establishing the stage-discharge relation, but these are 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 1973

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Pearl River basin							
02490113	Bogue Lusa Creek at State Highway 21, at Bogalusa, La.	Lat 30°46'52", long 89°51'07", Washington Parish, Parish, at bridge 1.4 miles southeast of Bogalusa water tower.	--	1969-73	3-24-73	a78.68	(†)
02490130	Coburn Creek at Bogalusa, La.	Lat 30°47'46", long 89°50'46", Washington Parish, at bridge on State Highway 21, and 1.0 miles southeast of Bogalusa water tower.	b7.9	1969-73	4-18-73	3.58	(†)
02491200	Silver Creek near Clifton, La.	Lat 30°55'30", long 90°14'30", Washington Parish, at bridge on State Highway 38, and 3.6 miles west of Clifton.	50.1	1966-73	3-24-73	9.58	(†)
02491350	Hays Creek near Franklinton, La.	Lat 30°53'16", long 90°11'28", Washington Parish, at bridge on State Highway 25, and 3.4 miles northwest of Franklinton water tower.	42.2	1966-73	3-24-73	14.69	(†)
02491700	Lawrence Creek near Franklinton, La.	Lat 30°51'40", long 90°06'55", Washington Parish, at bridge on State Highway 10, and 2.0 miles east of Franklinton.	44.2	1964-73	3- 2-64 2-17-65 2-12-66 4-14-67 4-13-69 10-13-70 5- 8-72 3-24-73	11.23 9.07 11.22 11.23 11.38 9.06 11.57 14.30	c4,580 c1,600 c4,570 c4,580 c4,900 c1,590 c5,300 13,200
Red River basin							
07346950	Kelly Bayou near Ida, La.	Lat 33°00'05", long 93°51'55", Caddo Parish, at bridge on State Highway 168, and 1.8 miles east of Ida.	b73	1969-73	2- 3-69 4-25-70 12-20-70 12-31-71 4-25-73	38.42 37.03 36.52 38.41 40.90	c515 c400 c365 c514 1,340
07348725	Indian Creek at Shongaloo, La.	Lat 32°55'55", long 93°17'30", Webster Parish, at bridge on State Highway 535, and 0.8 mile southeast of Shongaloo.	46.4	1966-73	4-25-73	43.57	(†)
07350990	Boggy Bayou at Woolworth Road, near Keithville, La.	Lat 32°22'35", long 93°54'00", Caddo Parish, at bridge 4.8 miles northwest of Keithville.	--	1963-73	4-25-66 5-31-67 9-15-68 4-17-69 3- 4-70 12-20-70 1- 4-72 4-25-73	41.83 42.73 42.28 43.02 41.29 40.09 40.33 41.93	c2,850 c4,150 c3,450 c4,600 c2,000 c580 c700 3,000
07351300	Brush Bayou near Shreveport, La.	Lat 32°23'25", long 93°46'15", Caddo Parish, at bridge on State Highway 526, and 2.5 miles south of Shreveport.	27.1	1960-73	4-24-73	164.11	(†)
07351500	Cypress Bayou near Keithville, La.	Lat 32°18'00", long 93°49'40", Caddo Parish, at bridge on U.S. Highway 171, and 2.0 miles south of Keithville.	b66	1939-57†, 1958-73	3-25-73	10.09	2,130
07351670	Rambin Bayou near Frierson, La.	Lat 32°13'25", long 93°42'15", De Soto Parish, at bridge on State Highway 175, and 1.5 miles south of Frierson.	59.6	1966-73	1- 7-73	12.96	(†)

See footnotes at end of table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Annual maximum discharge at crest-stage partial-record stations during water year 1973--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Red River basin--Continued							
07351700	Bayou Na Bonchasse near Mansfield, La.	Lat 32°06'05", long 93°41'45", De Soto Parish, at bridge on State Highway 175, and 4.2 miles north of Mansfield.	19.5	1957-68†, 1969-73	9-21-58 12-15-72	15.75 11.88	cd12,400 1,100
07351980	Saline Bayou near Bienville, La.	Lat 32°24'10", long 92°56'45", Bienville Parish, at bridge on parish road 1.0 mile upstream from Bear Creek, and 4.0 miles northeast of Bienville.	--	1966-73	4-20-66 6- 1-67 4- 8-68 12-14-68 5- 3-70 1- 7-73	44.58 44.68 44.62 44.43 43.65 43.91	c1,780 c1,880 c1,840 c1,640 c810 1,060
07352295	Black Lake Creek at Gibsland, La.	Lat 32°33'15", long 93°03'05", Bienville Parish, at bridge on State Highway 154, and 0.6 mile north of Gibsland.	--	1968-73	4-25-73	45.98	(†)
07352500	Black Lake Bayou near Castor, La.	Lat 32°15'40", long 93°12'50", Red River Parish, at bridge on State Highway 4, and 2.8 miles northwest of Castor.	423	1941-57†, 1958-73	4-25-73	9.96	3,680
07352700	Castor Creek at Castor, La.	Lat 32°14'35", long 93°09'30", Bienville Parish, at bridge 0.8 mile southeast of Castor.	27.9	1954-68	5-24-55 4- 7-63	48.70 45.70	cd3,000 c125
07352730	Antoine Creek near Ashland, La.	Lat 32°05'50", long 93°06'10", Red River Parish, at bridge on State Highway 153, and 3.0 miles south of Ashland.	17.7	1964-73	4-25-73	45.04	(†)
07353990	Kisatchie Bayou at Kisatchie, La.	Lat 31°25'20", long 93°10'14", Natchitoches Parish, at bridge on State Highway 117, and 0.6 miles north of Kisatchie.	--	1966-73	2-10-66 4-14-67 4- 8-68 12-11-68 5- 1-70 12-20-70 12-16-71 3-25-73	24.52 21.07 25.44 21.73 17.82 13.83 20.49 22.17	c10,600 c1,770 c15,000 c2,330 c910 c410 c1,520 3,230
07364740	Bayou de Loutre near Farmerville, La.	Lat 32°52'25", long 92°23'40", Union Parish, at bridge on State Highway 549, and 7.0 miles north of Farmerville.	--	1966-73	2-10-66 5-12-68 12-13-68 5- 2-70 8- 7-71 1- 5-72 3-17-73	44.00 43.25 44.16 43.36 42.36 43.78 44.75	c3,100 c2,050 c3,450 c2,200 c1,250 c2,750 5,000
07364870	Sugar Creek near Arcadia, La.	Lat 32°41'20", long 92°51'30", Claiborne-Lincoln Parish line, at bridge on State Highway 146, and 10.3 miles northeast of Arcadia.	b47	1966-73	2-10-66 2-20-67 2- 1-68 12-13-68 5- 1-70 12-20-71 5- 2-72 7- 7-73	44.50 44.34 44.02 44.05 44.14 45.21 43.27 44.37	e2,120 e1,900 e1,640 e1,670 e1,760 c2,940 c1,020 1,960
07366000	Corney Bayou near Lillie, La.	Lat 32°53'15", long 92°39'25", Union Parish, at bridge on U.S. Highway 167, and 3.0 miles south of Lillie.	462	1941-57†, 1958-73	3-17-73	16.23	9,500
07366420	Bayou Choudrant near Calhoun, La.	Lat 32°32'30", long 92°22'45", Ouachita Parish, at bridge on State Highway 151, and 2.5 miles northwest of Calhoun.	--	1966-73	4-25-73	42.33	2,300
07370530	Black Bayou at Kelly, La.	Lat 31°58'20", long 92°10'00", Caldwell Parish, at bridge on U.S. Highway 165, and 0.9 mile southeast of Kelly.	--	1966-73	4-27-66 4-14-67 4- 9-68 5- 8-69 11-30-69 5-13-71 3-16-73	39.86 39.19 40.25 39.11 39.41 41.04 41.57	c2,900 c1,910 c3,560 c1,830 c2,220 c5,130 6,270
07370575	Caney Creek near Chatham, La.	Lat 32°13'00", long 92°29'10", Jackson Parish, at bridge on State Highway 34, and 6.5 miles southwest of Chatham.	--	1966-73	12-10-72	43.59	(†)
07370660	Flat Creek near Olla, La.	Lat 32°00'55", long 92°21'50", Winn Parish, at bridge on State Highway 127, 2.5 miles downstream from Fish Creek, and 10.2 miles northwest of Olla.	--	1966-73	2-10-66 5-31-67 4- 9-68 4-18-69 3-22-70 2-26-71 12- 3-71 4-16-73	48.62 45.46 49.12 46.04 45.23 46.59 48.37 47.43	c7,400 c1,110 c9,000 c1,770 c950 c2,550 6,600 4,100

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations during water year 1973--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Red River basin--Continued							
07370750	Chickasaw Creek near Olla, La.	Lat 31°52'30", long 92°13'35", La Salle Parish, at bridge on State Highway 127, 2.0 miles southeast of Olla, and 3.5 miles upstream from Tarver Creek.	47.6	1954-73	5- 1-54 4-13-55 6-22-57 11-17-57 3- 3-60 3-17-61 12-13-61 3- 2-64 3-31-65 4-14-67 4- 9-68 5- 8-69 5- 2-70 3-16-73	41.08 40.22 40.58 40.04 40.18 40.45 40.50 40.31 40.88 39.98 41.29 39.70 36.13 41.80	c2,940 c1,660 c2,020 c1,540 c1,630 c1,870 c1,920 c1,730 c2,410 c1,500 c2,940 c1,370 c680 2,300
07370820	Dugdemona River near Quitman, La.	Lat 32°20'40", long 92°44'40", Jackson Parish, at bridge on State Highway 155, and 1.7 miles west of Quitman.	117	1964-73	3-17-73	41.27	1,500
07370840	Choctaw Creek near Hodge, La.	Lat 32°22'05", long 92°48'45", Bienville Parish, at bridge on State Highway 147, and 8.5 miles northwest of Hodge.	--	1966-73	4- 8-68 1- 4-72 1- 7-73	43.75 43.71 42.64	c1,180 c980 685
07370930	Cypress Bayou at Quitman, La. (Formerly published as Cypress Creek at Quitman)	Lat 32°20'45", long 92°42'55", Jackson Parish, at bridge on U.S. Highway 167, and 0.8 mile southeast of Quitman.	46.0	1966-73	6- 1-67 12-13-68 5- 2-70 3-17-73	40.10 40.69 40.30 41.21	e1,100 e1,740 e1,300 2,450
07370980	Little Dugdemona River near Hodge, La.	Lat 32°16'20", long 92°41'40", Jackson Parish, at bridge on State Highway 813-3, and 1.7 miles east of Hodge.	b20	1964-73	4- 1-65 2-10-66 5-31-67 4- 8-68 4-12-69 5-11-71 1- 4-72 12-14-72	44.89 46.40 42.03 45.29 43.85 44.78 44.79 45.15	c810 c2,640 e225 e1,020 e495 f765 f770 940
07372110	Brushy Creek near Joyce, La.	Lat 31°55'10", long 92°33'15", Winn Parish, at bridge on U.S. Highway 84, and 3.0 miles southeast of Joyce.	b24	1964-73	5- 2-73	43.93	2,120
07372900	Dyson Creek near Pollock, La.	Lat 31°32'20", long 92°25'00", Grant Parish, at bridge on parish road, 0.8 mile upstream from mouth, and 1.6 miles northwest of Pollock.	b12	1964-73	4-16-73	43.67	(†)
Thompson Creek basin							
07373450	Thompson Creek at Jackson, La.	Lat 30°50'25", long 91°13'35", East Feliciana-West Feliciana Parish line, at bridge 0.5 mile west of Jackson.	99.3	1949-59, 1972-73	3-22-49 1- 6-50 4-30-51 5-19-52 5-18-53 5- 4-54 4-13-55 12- 4-55 6-28-57 11-17-57 12- 7-71 3-24-73	h42.40 h39.8 h39.17 h36.47 h41.85 h36.83 h43.03 h39.44 h39.81 h37.22 89.09 92.26	c33,000 c23,000 c18,300 c9,400 c30,500 c10,300 c36,500 c27,200 c27,400 c11,400 c25,400 40,000
07373700	Thompson Creek near Starhill, La.	Lat 30°44'55", long 91°17'05", East Feliciana-West Feliciana Parish line, at bridge 1.7 mile miles southeast of Starhill.	249	1949-68, 1973	5-18-53 4-13-55 3-12-56 6-28-57 3-18-61 7- 3-64 4-13-67 3-24-73	46.10 46.02 43.89 43.82 45.64 43.70 43.98 45.88	c73,500 c72,500 e44,000 e43,200 c67,200 e42,000 e45,300 70,500
07373800	Alexander Creek near St. Francisville, La.	Lat 30°42'55", long 91°22'05", West Feliciana Parish, at bridge 2 miles northeast of St. Francisville.	23.9	1953-68, 1971-73	5-18-53 7-17-54 4-12-55 3-12-56 3-24-58 4-19-59 3-17-61 4- 6-62 3- 2-64 10- 4-64	14.18 9.35 12.55 10.93 9.20 9.58 12.04 11.17 10.87 13.25	c12,700 e3,170 e8,650 e5,430 e3,000 e3,450 c7,560 e5,830 e5,340 c10,300

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Annual maximum discharge at crest-stage partial-record stations during water year 1973--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Thompson Creek basin--Continued							
07373800	Alexander Creek--Continued	See preceding page.			2-12-66 9-16-71 12- 7-71 3-24-73	9.87 11.21 12.83 12.13	e3,830 c5,930 c9,300 7,750
Mississippi River Delta							
07375170	Bogue Falaya at Covington, La.	Lat 30°29'58", long 90°05'04", St. Tammany Parish, at bridge on State Highway 437, and 1.0 mile northeast of Covington.	88.2	1964-73	5- 8-72 3-24-73	18.73 18.99	f7,580 7,820
07375222	Abita River north of Abita Springs, La.	Lat 30°28'55", long 92°02'20", St. Tammany Parish, at bridge on State Highway 36, and 0.2 mile north of Abita Springs.	--	1966-73	2-13-66 4-14-67 1-15-68 4-13-69 3- 4-70 2-26-71 5- 8-72 3-24-73	18.94 16.06 11.22 19.31 14.14 20.64 23.38 23.69	c1,100 c610 c265 c1,220 c440 c1,920 c3,980 4,250
07375307	Terry's Creek near Kentwood, La.	Lat 30°57'23", long 90°30'13", Tangipahoa Parish, at bridge on U.S. Highway 51, and 1.5 miles northeast of Kentwood.	--	1966-73	3-24-73	12.30	(†)
07375463	Chappeeela Creek near Husser, La.	Lat 30°39'35", long 90°18'45", Tangipahoa Parish, at bridge on State Highway 445, and 1.9 miles southeast of Husser.	--	1966-73	2-13-66 4-14-67 1- 1-68 4-13-69 3- 4-70 9-16-71 3-25-73	26.02 26.35 22.49 24.90 22.60 24.90 27.71	c4,250 c4,850 c660 c2,540 c710 f2,540 (†)
07375480	Chappeeela Creek southeast of Loranger, La.	Lat 30°36'22", long 90°19'56", Tangipahoa Parish, at bridge on State Highway 40, and 4.5 miles southeast of Loranger.	91.0	1964-73	3-25-73	16.12	(†)
07375600	Washley Creek near Robert, La.	Lat 30°30'20", long 90°18'30", Tangipahoa Parish, at bridge on U.S. Highway 190, and 2.0 miles east of Robert.	25.3	1951-73	4-18-73	11.94	(†)
07375800	Tickfaw River at Liverpool, La.	Lat 30°55'47", long 90°40'41", St. Helena Parish, at bridge on State Highway 38, and 1.0 mile north of Liverpool.	89.7	1956-68†, 1969-73	2-13-66 4- 9-68 3-25-73	10.36 11.73 12.09	c3,920 c9,380 11,800
07375960	Tickfaw River at Montpelier, La.	Lat 30°41'10", long 90°38'35", St. Helena Parish, at bridge 0.5 mile northeast of Montpelier.	220	1951-68	3-30-51 1952 4-15-55 3-11-56 9-18-57 1-12-58 6- 3-59 2- 5-60 3-18-61 3- 3-64 10- 4-64 4- 9-68	100.68 (j) 101.20 100.42 99.28 100.46 100.43 98.41 102.32 101.17 102.15 102.31	c5,270 <1,600 c5,930 c4,980 c3,580 c5,100 c4,990 c2,610 c7,400 c5,900 c7,150 c7,370
07376290	Blood River near Springfield, La.	Lat 30°26'19", long 90°36'37", Livingston Parish, at bridge on State Highway 42, and 3.7 miles northwest of Springfield.	26.6	1964-73	3-25-73	18.32	2,360
07376520	Little Natalbany River at Albany, La.	Lat 30°30'15", long 90°34'40", Livingston Parish, at bridge on U.S. Highway 190, and 0.3 mile east of Albany.	40.6	1966-72	2-13-66 1- 1-68 4-14-69 3- 4-70 9-16-71 12- 7-71 3-25-73	25.03 19.30 26.44 20.92 24.33 25.45 26.48	e3,250 e1,380 e4,180 e1,770 c2,880 f3,480 4,200
07376600	Ponchatoula Creek at Natalbany, La.	Lat 30°33'40", long 90°28'55", Tangipahoa Parish, at bridge on U.S. Highway 51, and 1.0 mile north of Natalbany.	13.8	1951-73	5-12-68 4-16-69 3- 4-70 9-16-71 12- 7-71 3-25-73	8.06 11.14 8.60 10.31 11.65 11.71	e519 e1,330 e770 f1,100 f1,480 1,500
07377190	Sandy Creek southeast of Clinton, La.	Lat 30°50'05", long 90°57'50", East Feliciana Parish, at bridge on State Highway 63, and 5.9 miles southeast of Clinton.	17.2	1966-72	3-24-73	13.83	(†)

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations during water year 1973--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Mississippi River Delta--Continued							
07377300	Amite River at Magnolia, La.	Lat 30°32'05", long 90°58'50", East Baton Rouge Parish, at bridge on State Highway 64, and 0.4 mile east of Magnolia.	884	1949-73	5- 4-49 1- 9-50 4- 1-51 5-20-53 4-15-55 3-14-56 12-19-59 3-18-61 4-29-62 3- 3-64 10- 6-64 2-17-66 4-15-67 10- 8-69 12- 6-71 3-27-73	42.26 45.10 44.32 47.46 48.26 41.92 40.26 46.57 45.14 43.78 45.89 43.97 46.12 39.10 46.42 48.00	e20,100 e30,200 e26,800 e43,200 e48,000 e19,100 e15,300 e37,800 e30,300 e24,600 e34,200 e25,400 e38,000 e17,200 c39,300 47,100
07377700	Redwood Creek near Slaughter, La.	Lat 30°43'44", long 91°06'54", East Feliciana Parish, at bridge on State Highway 412, and 2.0 miles northeast of Slaughter.	41.1	1966-68†, 1969-73	3-24-73	17.68	3,070
07380160	Middle Colyell Creek near Walker, La.	Lat 30°29'45", long 90°50'30", Livingston Parish, at bridge on U.S. Highway 190, and 1.3 miles east of Walker.	20.3	1951-73	3-19-51 7-16-52 5- 4-53 2-22-61 4-23-66 4-15-67 1- 1-68 4-13-69 3- 3-70 3- 2-71 5- 8-72 3-25-73	6.10 4.75 6.72 4.85 8.14 6.89 1.07 5.19 1.42 1.36 4.04 3.82	c430 c1,430 c2,040 c1,450 c2,530 c2,090 c515 c1,160 c550 c542 c920 880
07381413	Intracoastal Waterway tributary near Port Allen, La.	Lat 30°26'42", long 91°13'53", West Baton Rouge Parish, on Interstage Highway 10, 0.2 mile upstream from mouth, and 1.4 miles southwest of Port Allen.	9.08	1971-73	3-24-73	8.83	(†)
Mermentau River basin							
08011600	Beaver Creek at Beaver, La.	Lat 30°47'23", long 92°34'05", Evangeline Parish, at bridge 0.5 mile southeast of Beaver.	14.4	1953-68	5-19-53 5-20-55 4-26-66 4-15-67 1-10-68	19.18 18.95 15.43 16.43 15.14	cd7,200 cd6,900 e1,150 e1,990 e950
08011800	Castor Creek near Oberlin, La.	Lat 30°37'10", long 92°37'10", Allen Parish, at bridge on parish road 0.1 mile upstream from Mulberry Creek, and 8.5 miles east of Oberlin.	43.9	1964-73	3-25-73	34.30	(†)
Calcasieu River basin							
08012700	Big Creek near Leander, La.	Lat 31°08'30", long 93°49'30", Rapides Parish, at bridge 1.4 miles east of Leander.	37.1	1951-68	3-30-52 5-18-53 9-27-60 12-18-61 1963 3- 2-64 2-10-66 11-12-66 1-10-68	12.65 14.94 8.31 11.97 (j) 11.91 12.28 11.95 11.93	c3,350 cd7,000 c150 e2,480 cd100 e2,410 e2,850 e2,460 e2,430
08013800	Little Sixmile Creek near Pitkin, La.	Lat 30°58'05", long 93°00'45", Vernon Parish, at bridge on State Highway 10, 1.0 mile upstream from Spurlock Branch, and 5.0 miles west of Pitkin.	10.4	1954-73	3-25-73	15.00	(†)
08013950	Big Brushy Creek near Pitkin, La.	Lat 30°54'55", long 92°53'30", Vernon Parish, at bridge on State Highway 10, and 3.0 miles southeast of Pitkin, and 3.1 miles upstream from mouth.	34.4	1965-73	12-12-64 2-10-66 1- 9-68 4-13-69 12- 6-69 10-12-70 12- 6-71 3-25-73	15.76 16.33 16.48 15.33 11.72 14.45 17.52 18.33	c1,520 c2,180 c2,370 c1,170 c420 c800 c3,730 5,000

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Annual maximum discharge at crest-stage partial-record stations during water year 1973--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Calcasieu River basin--Continued							
08014000	Sixmile Creek near Sugartown, La.	Lat 30°48'52", long 92°55'34", Allen Parish, at bridge on State Highway 10, and 5.5 miles east of Sugartown, and 6.6 miles upstream from mouth.	171	1956-65†, 1966-73	3-25-73	16.08	12,800
08014200	Tenmile Creek near Elizabeth, La.	Lat 30°50'11", long 92°52'26", Allen Parish, at bridge on State Highway 10, 0.3 mile downstream from Carter Branch, and 5.3 miles southwest of Elizabeth.	94.2	1950-65†, 1966-73	3-25-73	16.01	6,700
08014600	Flat Creek near near De Ridder, La.	Lat 30°51'05", long 93°14'45", Beauregard Parish, at bridge on State Highway 112, 2.4 miles east of De Ridder, and 3.2 miles upstream from mouth.	26.3	1964-73	3-25-73	13.42	(†)
08016200	Cowpen Creek near De Ridder, La.	Lat 30°42'41", long 93°20'53", Beauregard Parish, at bridge 8.2 miles south of De Ridder.	28.3	1954-68	5-13-54 5-20-55 2- 9-56 12-23-56 9-21-58 2- 3-59 1-17-60 2-18-61 12-18-61 12-30-62 3- 2-64 1-23-65 2-10-66 4-14-67 1-10-68	18.35 20.25 14.02 16.30 17.44 13.99 12.55 15.46 15.48 13.10 15.11 15.30 16.64 17.41 15.70	c4,820 cd7,200 c860 c2,600 c3,800 c830 c420 c1,830 c1,850 c535 c1,550 c1,700 c2,950 c3,760 c2,050
08016300	Beckwith Creek near Singer, La.	Lat 30°38'34", long 93°22'58", Beauregard Parish, at bridge 2 miles southeast of Singer.	76.0	1954-68	5- 2-54 5-21-55 2- 9-56 12-23-56 9-21-58 2- 3-59 2- 4-60 2-18-61 12-19-61 12-25-62 3- 2-64 1-23-65 2-10-66 4-15-67 1- 9-68	15.01 18.41 11.13 13.20 15.08 11.28 9.44 12.49 12.24 10.61 11.79 11.78 12.54 13.09 12.45	c9,350 cd17,000 c1,600 c5,160 c9,500 c1,800 c500 c3,750 c3,310 c1,030 c2,560 c2,550 c3,860 c4,940 c3,700
08016600	Hickory Branch at Kernan, La.	Lat 30°30'05", long 93°16'45", Beauregard Parish, at bridge on State Highway 12, 0.7 mile southwest of Kernan, and 3.0 miles upstream from Cowpen Creek.	82.2	1946-57†, 1973	3-25-73	21.04	3,760
08016700	Bear Head Creek near Singer, La.	Lat 30°35'35", long 93°28'48", Beauregard Parish, at bridge 6.0 miles southwest of Singer.	45.6	1954-68	5- 2-54 5-21-55 2-10-56 12-23-56 9-21-58 2-25-59 4-30-60 2-18-61 12-19-62 12-26-63 5- 2-64 1-23-65 2-10-66 4-16-67 1-10-68	15.72 19.44 12.83 14.84 15.55 13.52 11.96 14.30 14.06 12.78 13.71 13.28 14.03 14.87 14.48	c5,980 c14,000 c930 c4,080 c5,590 c1,800 c460 c3,020 c2,620 c870 c2,080 c1,450 c2,570 c4,140 c3,370
Sabine River basin							
08023270	Bull Bayou near Hunter, La.	Lat 31°53'10", long 93°52'30", De Soto Parish, at bridge on State Highway 174, 1.1 miles southeast of Hunter, and 3.2 miles upstream from mouth.	8.54	1963-73	3-25-73	11.35	(†)
08023400	Bayou San Patricio near Benson, La.	Lat 31°52'30", long 93°39'30", De Soto Parish, at bridge 2.2 miles east of Benson.	80.2	1954-68	9-20-58	20.36	cd13,500

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations during water year 1973--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Sabine River basin--Continued							
08024060	Blackwell Creek at Many, La.	Lat 31°34'50", long 93°27'45", Sabine Parish, at bridge on State Highway 6, 0.2 mile north-east of Many, and 0.8 mile upstream from mouth.	3.16	1959-68†, 1969-73	--	<9.59	(†)
08025850	Pearl Creek at State Highway 111, at Burr Ferry, La.	Lat 31°04'32", long 93°29'22", Vernon Parish, at bridge 0.8 mile northeast of Burr Ferry.	9.66	1967-73	4-16-73	8.38	(†)
08026200	Red Bank Creek at Evans, La.	Lat 30°59'30", long 93°29'55", Vernon Parish, at bridge on State Highway 111, 0.4 mile northeast of Evans, and 2.8 miles upstream from mouth.	17.2	1966-73	3-25-73	17.33	(†)

† Discharge not determined.

‡ Operated as a continuous-record gaging station.

< Less than amount shown.

a Add 70.29 ft to gage height prior to 1972.

b Approximately.

c Not previously published.

d About.

e Revised.

f Corrected.

h Add 48.69 ft to gage heights prior to 1972.

j Peak stage did not reach bottom of gage.

Measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations are given in the following table.

Discharge measurements made at miscellaneous sites during water year 1973

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Red River basin						
Bear Creek	Black Lake Bayou	Lat 32°39'05", long 93°06'35", Claiborne Parish, at bridge on State Highway 518, 6.0 miles west of Athens, La.	--	--	3-16-73	520
Little Bayou	Bayou de Loutre	Lat 32°56'54", long 92°25'36", Union Parish, at bridge on parish road, 0.9 mile downstream from Mark Beach Bayou, 4.7 miles above mouth, and 1.3 miles west of Truxno, La.	--	--	3-16-73	1,780
Big Cane Creek	Bayou de Loutre	Lat 32°52'33", long 92°18'21", Union Parish, at bridge on State Highway 348, 3.1 miles north of De Loutre, La.	--	1972	3-16-73	1,590
Cypress Creek	Bayou D'Arbonne	Lat 32°39'35", long 92°35'15", Lincoln Parish, at bridge on State Highway 822, 3.2 miles east of Unionville, La.	63.3	1954-65	3-16-73	2,250
Tensas River	Black River	Lat 31°43'25", long 91°32'40", Catahoula Parish, at bridge on State Highway 15, at Clayton, La.	a2,382	1964	3-22-73	13,200
Bushley Bayou	Ouachita River	Lat 31°44'37", long 91°49'43", Catahoula Parish, at bridge on State Highway 124, 2.0 miles upstream from mouth and 7.7 miles north of Jonesville, La.	--	--	3-23-73	0
Little River	Black River	Lat 31°37'55", long 91°49'25", Catahoula Parish, at bridge on State Highway 124, at Jonesville, La.	a2,936	1959	3-23-73	b15,400
Black River	Red River	Lat 31°37'25", long 91°48'45", Catahoula-Concordia Parish line, at bridge on U.S. Highway 84 at Jonesville, La., and 0.3 mile downstream from Little River, La.	a24,158	--	3-22-73	62,000
Mississippi River Main Stem						
Mississippi River	Gulf of Mexico	Lat 30°30'25", long 91°11'55", East Baton Rouge-West Baton Rouge Parish line, at bridge on U.S. Highway 190, at Baton Rouge, La.	a1,243,500	1941-58c	4-18-73 4-19-73 4-20-73 4-21-73 4-22-73 4-23-73 4-24-73 4-25-73 4-26-73 4-27-73 4-28-73 4-29-73 4-30-73 5- 1-73 5- 2-73 5- 4-73 5- 5-73 5- 6-73 5- 7-73 5- 8-73 5- 9-73 5-10-73 5-12-73 5-13-73 5-14-73 5-15-73 5-16-73 5-18-73 5-19-73 5-20-73 5-21-73 5-22-73 5-23-73 5-24-73 5-25-73 5-26-73 5-27-73 5-28-73 5-29-73 5-30-73 5-31-73 6- 1-73	d1,350,000 d1,240,000 d1,220,000 d1,350,000 d1,260,000 d1,360,000 d1,290,000 d1,360,000 d1,310,000 d1,310,000 d1,260,000 d1,320,000 d1,290,000 d1,270,000 d1,290,000 d1,280,000 d1,300,000 d1,320,000 d1,330,000 d1,310,000 d1,340,000 d1,320,000 d1,340,000 d1,380,000 d1,330,000 d1,310,000 d1,290,000 d1,270,000 d1,240,000 d1,300,000 d1,300,000 d1,300,000 d1,270,000 d1,270,000 d1,280,000 d1,240,000 d1,250,000 d1,210,000 d1,210,000 d1,200,000 d1,120,000 d1,190,000

See footnotes at end of table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1973--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Mississippi River Main Stem--Continued						
Mississippi River--Continued	See preceding page.	See preceding page.			6- 2-73 6- 3-73 6- 4-73 6- 5-73 6- 6-73 6- 8-73 6- 9-73 6-10-73 6-11-73 6-12-73 6-13-73 6-14-73 6-15-73 6-16-73 6-17-73 6-18-73 6-19-73 6-20-73 6-21-73 6-22-73 6-23-73 6-24-73 6-25-73 6-26-73 6-27-73 6-28-73 6-29-73 6-30-73	d1,130,000 d1,090,000 d1,060,000 d1,100,000 d1,040,000 d1,020,000 d1,010,000 d1,000,000 d998,000 d999,000 d1,010,000 d1,000,000 d971,000 d968,000 d974,000 d950,000 d934,000 d925,000 d944,000 d926,000 d919,000 d878,000 d860,000 d849,000 d832,000 d801,000 d806,000 d650,000
Mississippi River Delta						
Beaver Bayou	Comite River	Lat 30°32'34", long 91°01'14", East Baton Rouge Parish, at culvert on Wax Road, 11.8 miles northeast of Baton Rouge Post Office.	--	1972	12-10-71	e330
Bonnet Carre Floodway	Lake Pontchartrain	Lat 30°03'50", long 90°23'05", St. Charles Parish, at bridge on Interstate Highway 10, 4.5 miles north of Norco, La.	(f)	--	4-10-73 4-13-73 4-16-73 5- 2-73	g109,000 g179,000 g173,000 g156,000
Bayou Lafourche	Gulf of Mexico	Lat 29°47'50", long 90°49'20", Lafourche Parish, at bridge on State Highway 20, at Thibodaux, La.	--	1954-57, 1962	8-27-71	eh163
Atchafalaya River	Gulf of Mexico	Lat 30°58'57", long 91°47'54", Avoyelles-Pointe Coupee Parish line, at bridge on State Highway 1, at Simmesport, La., and 4.8 miles downstream from confluence of Red River and Old River.	(f)	1948-49, 1955j	5- 7-73 5-23-73	k823,000 k768,000
Atchafalaya River	Gulf of Mexico	Lat 30°32'48", long 91°45'04", Pointe Coupee-St. Landry Parish line, at bridge on U.S. Highway 190, 0.5 mile north of town of Krotz Springs, La., and 42 miles downstream from confluence of Red River and Old River.	(f)	1935-64c	5- 5-73 5- 9-73	k779,000 k742,000
Morganza Floodway	Atchafalaya River	Lat 30°33'16", long 91°41'51", Pointe Coupee Parish, at bridge on U.S. Highway 190, 5 miles east of the town of Krotz Springs, La.	(f)	--	4-19-73 4-20-73 4-21-73 4-22-73 4-23-73 4-24-73 4-25-73 4-26-73 4-27-73 4-28-73 4-29-73 4-30-73 5- 1-73 5- 2-73 5- 3-73 5- 4-73 5- 5-73 5- 6-73 5- 7-73 5- 8-73 5- 9-73 5-10-73 5-11-73	m76,800 m141,000 m99,800 m78,100 m68,400 m59,100 m55,500 m63,400 m62,000 m61,100 m65,000 m67,100 m66,900 m75,000 m74,300 m75,300 m74,400 m77,100 m70,800 m74,800 m78,800 m76,100 m78,800

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Discharge measurements made at miscellaneous sites during water year 1973--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Mississippi River Delta--Continued						
Morganza Floodway--Continued	See preceding page.	See preceding page.			5-12-73	m79,800
					5-13-73	m81,500
					5-14-73	m85,000
					5-15-73	m95,700
					5-16-73	m108,000
					5-17-73	m122,000
					5-18-73	m137,000
					5-19-73	m139,000
					5-20-73	m140,000
					5-21-73	m140,000
					5-22-73	m142,000
					5-23-73	m132,000
					5-24-73	m133,000
					5-25-73	m131,000
					5-26-73	m131,000
					5-27-73	m125,000
					5-28-73	m124,000
					5-29-73	m120,000
					5-30-73	m119,000
					5-31-73	m112,000
					6- 1-73	m107,000
					6- 2-73	m104,000
					6- 3-73	m94,100
					6- 4-73	m90,600
					6- 5-73	m84,100
					6- 6-73	m77,900
					6- 7-73	m60,800
					6- 8-73	m58,500
					6- 9-73	m58,000
					6-10-73	m53,900
					6-11-73	m44,100
					6-12-73	m37,900
					6-13-73	m28,300
					6-14-73	m23,200
					6-15-73	m20,200
Wax Lake Outlet	Gulf of Mexico	Lat 29°42'09", long 91°22'07", St. Mary Parish, at bridge on U.S. Highway 90, 0.5 mile west of Calumet, and 4.0 miles west of Patterson, La.	(f)	1956	4-10-73	n214,000
					4-13-73	n213,000
					4-18-73	n210,000
					4-20-73	n224,000
					4-24-73	n226,000
					4-27-73	n238,000
					5- 1-73	n241,000
					5- 4-73	n238,000
					5- 8-73	n246,000
					5-11-73	n266,000
					5-15-73	n245,000
					5-17-73	n257,000
					5-22-73	n269,000
					5-25-73	n267,000
					5-29-73	n272,000
					5-31-73	n257,000
					6- 5-73	n234,000
					6- 8-73	n236,000
					6-12-73	n209,000
					6-15-73	n185,000
					6-19-73	n194,000
					6-21-73	n191,000
					6-26-73	n183,000
					6-29-73	n176,000
Lower Atchafalaya River	Gulf of Mexico	Lat 29°41'47", long 91°12'39", St. Mary Parish, at bridge on U.S. Highway 90, at Morgan City, La.	(f)	--	4-11-73	p456,000
					4-13-73	p493,000
					4-18-73	p546,000
					4-20-73	p513,000
					4-24-73	p522,000
					4-27-73	p558,000
					5- 1-73	p562,000
					5- 4-73	p568,000
					5- 8-73	p586,000
					5-11-73	p609,000
					5-15-73	p610,000
					5-17-73	p640,000
					5-22-73	p654,000
					5-25-73	p692,000
					5-29-73	p692,000
					5-31-73	p682,000

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1973--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Mississippi River Delta--Continued						
Lower Atchafalaya--Continued	See preceding page.	See preceding page.			6- 5-73 6- 8-73 6-12-73 6-15-73 6-19-73 6-21-73 6-26-73 6-29-73	p639,000 p611,000 p556,000 p494,000 p484,000 p474,000 p428,000 p414,000
Spring Creek	Bayou Cocodrie	Lat 31°05'55", long 92°38'12", Rapides Parish, at bridge on unmarked parish road, 0.2 mile downstream from mouth of Squyres Branch, and 0.5 mile south of Melder, La.	--	1969-72	10- 6-72	4.30
Rocky Branch	Spring Creek	Lat 31°05'53", long 92°37'39", Rapides Parish, at bridge on State Highway 112, 0.5 mile upstream from mouth, and 0.7 mile southeast of Melder, La.	--	1969-72	10- 6-72	.09
Roaring Creek	Spring Creek	Lat 31°04'51", long 92°36'37", Rapides Parish, at bridge on unmarked parish road, 0.9 mile upstream from mouth, and 3.0 miles southeast of Melder, La.	--	1969, 1971-72	10- 6-72	2.09

a Owing to interchange of flow between basins, drainage area arbitrarily determined.

b Reverse flow.

c Operated as a continuous-record gaging station.

d Diversions from basin by way of Old River Control Structure, overbank control structure, and Morganza Control Structure, and are not included in values of discharge.

e Not previously published.

f Drainage area indeterminate.

g Flow represents diversion from Mississippi River.

h Pumping plant at Donaldsonville pumps total flow of Bayou Lafourche from Mississippi River except for small amounts of storm drainage during freshets.

j Not published.

k Flow represents entire flow of Red River plus controlled diversion from the Mississippi River by way of Old River Control Structure and overbank control structure.

m Flow is controlled diversion from the Mississippi River by way of Morganza Control Structure.

n Flow represents uncontrolled diversion from lower Atchafalaya River.

p Diversion into basin by way of Old River Control Structure, overbank control structure, and Morganza Floodway, and out of basin by way of Wax Lake Outlet.

The following table contains annual maximum elevation for flood-profile stations. A flood-profile gage is a device which will register the peak elevation occurring between inspections. The date of the maximum elevation is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Where two or more sites on the same stream have annual peaks caused by different floods, all floods are listed for each site. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum elevation at flood-profile partial-record stations during water year 1973

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Flood peak	
					Date	Elevation (feet above mean sea level)
Pearl River basin						
02490109	Bogue Lusa Creek at State Highway 60, at Bogalusa, La.	Lat 30°46'59", long 89°51'52", Washington Parish, at bridge 1.1 miles southeast of Bogalusa water tower.	--	1969-73	3-24-73	83.74
02490112	Bogue Lusa Creek at Richmond St., at Bogalusa, La.	Lat 30°46'53", long 89°51'18", Washington Parish, at bridge 1.3 miles southeast of Bogalusa water tower.	--	1969-73	3-24-73	80.21
02490126	Coburn Creek at Memorial Dr., at Bogalusa, La.	Lat 30°47'44", long 89°51'43", Washington Parish, at bridge 0.3 mile south of Bogalusa water tower.	--	1969-73	3-24-73	†15.73
02490127	Coburn Creek at Austin St., at Bogalusa, La.	Lat 30°47'37", long 89°51'33", Washington Parish, at bridge 0.4 mile southeast of Bogalusa water tower.	6.92	1969-73	3-24-73	†14.90
02490129	Coburn Creek at Poplar St., at Bogalusa, La.	Lat 30°47'41", long 89°51'10", Washington Parish, at bridge 0.6 mile southeast of Bogalusa water tower.	--	1969-73	3-24-73	†8.37
02490133	Coburn Creek at State Highway 10, at Bogalusa, La.	Lat 30°47'32", long 89°50'12", Washington Parish, at bridge, 1.6 miles southeast of Bogalusa water tower.	--	1969-73	3-24-73	†16.66
02491800	Bogue Chitto River at Enon, La.	Lat 30°43'10", long 90°05'00", St. Tammany Parish, at bridge 0.5 mile south of Enon.	1,107	1949-63, 1973	4-16-73	17.18
02492663	French Branch near Slidell, La.	Lat 30°17'40", long 89°44'10", St. Tammany Parish, at bridge on State Highway 1092, and 3.5 miles northeast of Slidell.	--	1966-73	3-24-73	†7.16
Red River basin						
07348010	Twelvemile Bayou below Dixie, La.	Lat 32°36'25", long 93°48'35", Caddo Parish, at bridge on U.S. Highway 71, and 6.0 miles southeast of Dixie.	--	1962-73	4-30-73	165.52
07348105	McCain Creek at Pine Hills Rd., near Shreveport, La.	Lat 32°35'01", long 93°49'34", Caddo Parish, at bridge 6.7 miles northwest of Shreveport court house.	--	1963-73	1973	<175.80
07348120	McCain Creek at Cooper Rd., near Shreveport, La.	Lat 32°33'11", long 93°47'30", Caddo Parish, at bridge 3.7 miles northwest of Shreveport court house.	--	1963-73	1973	<175.70
07349363	Macks Bayou tributary No. 2, at Bossier City, La.	Lat 32°32'33", long 93°42'30", Bossier Parish, at bridge on Airline Dr., 2.1 miles northeast of Bossier City Post Office.	--	1963-73	4-24-73	164.00
07349365	Macks Bayou at Bossier City, La.	Lat 32°31'59", long 93°40'24", Bossier Parish, at bridge on U.S. Highway 80, 3.3 miles northeast of Bossier City Post Office.	--	1963-73	1973	<160.90
07349368	Macks Bayou tributary No. 3, at Bossier City, La.	Lat 32°31'20", long 93°41'31", Bossier Parish, at bridge on Old Minden Rd., 2.1 miles east of Bossier City Post Office.	--	1963-73	1973	<162.90
07349369	Macks Bayou at North Gate Rd., at Bossier City, La.	Lat 32°30'39", long 93°40'56", Bossier Parish, 500 ft west of Barksdale Air Force Base fence at North Gate Road at Bossier City.	--	1966-73	4-24-73	159.68
07349380	Flat River at Taylortown, La.	Lat 32°23'20", long 93°35'15", Bossier Parish, at bridge on State Highway 527, and 0.5 mile east of Taylortown.	95.8	1960-62a 1963-63	5- 1-73	144.32
07349400	Flat River near Elm Grove, La.	Lat 32°19'45", long 93°31'20", Bossier Parish, at bridge on State Highway 157, and 2.2 miles southeast of Elm Grove.	112	1960-73	5- 1-73	142.76
07349590	Ivan Lake near Cotton Valley, La.	Lat 32°49'45", long 93°29'20", Bossier Parish, at bridge 100 ft above dam, and 4.0 miles west of Cotton Valley.	37.8	1960-65a, 1966-73	4-25-73	202.14
07349785	Little Cypress Bayou at State Highway 3, at Plain Dealing, La.	Lat 32°54'55", long 93°42'15", Bossier Parish, at bridge 0.6 mile northwest of Plain Dealing.	--	1963-73	1973	<276.20

See footnotes at end of table.

PEAK ELEVATIONS AT FLOOD-PROFILE PARTIAL-RECORD STATIONS

Annual maximum elevation at flood-profile partial-record stations during water year 1973--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Flood peak	
					Date	Elevation (feet above mean sea level)
Red River basin--Continued						
07349787	Little Cypress Bayou tributary at Plain Dealing, La.	Lat 32°54'30", long 93°42'15", Bossier Parish, at bridge on State Highway 3, 0.7 mile north-west of Plain Dealing.	--	1963-73	6-15-73	267.81
07349790	Little Cypress Bayou at Plain Dealing, La.	Lat 32°54'05", long 93°41'55", Bossier Parish, at bridge on unnamed street 0.3 mile down-stream from State Highway 3, and 0.3 mile southeast of Plain Dealing.	--	1963-73	6-15-73	47.81
07349860	Red Chute Bayou at Sligo, La.	Lat 32°26'50", long 93°35'40", Bossier Parish, at bridge on State Highway 612, and 0.5 mile west of Sligo.	980	1960-62a, 1963-73	4-30-73	152.73
07349890	Red Chute Bayou near Elm Grove, La.	Lat 32°21'45", long 93°30'10", Bossier Parish, at bridge on State Highway 154, and 3.0 miles northeast of Elm Grove.	1,004	1960-73	4-30-73	143.44
07349900	Swan Lake near Elm Grove, La.	Lat 32°16'55", long 93°27'05", Bossier Parish, at bridge on parish road, 7.5 miles southeast of Elm Grove.	1,020	1961-73	4-30-73	142.53
07350300	Coushatta Bayou near Crichton, La.	Lat 32°07'10", long 93°24'10", Red River Parish, at bridge on State Highway 515, 1.8 miles east of Crichton.	15.9	1960-73	1973	<129.00
07350700	Bayou Pierre at Shreveport, La.	Lat 32°27'20", long 93°44'05", Caddo Parish, at bridge on Pierremont Rd., 3.4 miles south-east of Shreveport city hall.	--	1960-73	1- 7-73 4-25-73 7- 7-73	155.23 <152.1 155.07
07350800	Bayou Pierre at Forbing, La.	Lat 32°23'35", long 93°43'25", Caddo Parish, at bridge on State Highway 526, 0.6 mile northeast of Forbing, and 8.1 miles south of Shreveport Post Office.	19	1960-65a, 1967-73	1- 7-73 4-24-73 7- 7-73	144.05 146.06 149.13
07350820	Sand Beach Bayou at Shreveport, La.	Lat 32°26'35", long 93°43'27", Caddo Parish, at bridge on East 70th St., 4.3 miles south-east of Shreveport city hall.	--	1963-64, 1967-73	1973	<142.6
07350840	Sand Beach Bayou near Shreveport, La.	Lat 32°24'03", long 93°42'26", Caddo Parish, at bridge on State Highway 526, 7.4 miles southeast of Shreveport city hall.	--	1963-73	1973	<100.4
07350900	Bayou Pierre near Robson, La.	Lat 32°22'25", long 93°40'30", Caddo Parish, at bridge on Leonard Rd., and 2.0 miles northwest of Robson.	26.0	1960-73	1- 7-73 4-25-73 7- 7-73	<138.1 <138.1 140.80
07351200	Brush Bayou at Shreveport, La.	Lat 32°26'23", long 93°46'52", Caddo Parish, at Southern Pacific Railway bridge, 4.9 miles southwest of Shreveport city hall.	3.4	1960-73	7-31-73	186.27
07351580	Bayou Pierre near Abington, La.	Lat 32°08'10", long 93°31'05", De Soto-Red River Parish line, at bridge on State Highway 509, and 2.9 miles northwest of Abington.	406	1960-65a, 1966-73	1- 7-73 4-25-73 7- 8-73	127.17 125.25 120.17
07351740	Bayou Pierre at Evelyn, La.	Lat 31°59'20", long 93°26'30", De Soto-Red River Parish line at bridge on State Highway 177, and 0.2 mile northeast of Evelyn.	707	1950-65a, 1966-73	1- 7-73 4-25-73 7- 8-73	117.50 <116.00 <116.00
07351750	Bayou Pierre near Lake End, La.	Lat 31°53'40", long 93°20'30", Natchitoches-Red River Parish line, at bridge on State High-way 174, and 2.9 miles southwest of Lake End.	860	1950-73	1- 7-73 4-25-73 7- 8-73	<107.5 113.51 108.06
07352150	Saline Lake near Clarence, La.	Lat 31°51'10", long 92°56'10", Natchitoches-Winn Parish line, 100 ft left of spillway, and 5.9 miles northeast of Clarence.	421	1960-73	5- 8-73	108.61
07352410	Kepler Lake near Castor, La.	Lat 32°18'40", long 93°09'30", Bienville Parish, at dam on Kepler Lake, 5.0 miles north of Castor.	46.2	1960-65b, 1966-73	1973	<177.70
07352900	Saline Bayou at Allen Dam, near Clarence, La.	Lat 31°51'05", long 92°56'45", Natchitoches Parish, on right bank upstream wing wall of spillway, and 5.3 miles northeast of Clarence.	1,349	1960-73	5- 8-73	107.13
07354740	Old River at Montrose, La.	Lat 31°34'25", long 92°59'40", Natchitoches Parish, at bridge on State Highway 1 at Montrose.	471	1960-65b, 1966-73	1973	<95.04

PEAK ELEVATIONS AT FLOOD-PROFILE PARTIAL-RECORD STATIONS

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Annual maximum elevation at flood-profile partial-record stations during water year 1973--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Flood peak	
					Date	Elevation (feet above mean sea level)
Red River basin--Continued						
07354780	Cane River near Cloutierville, La.	Lat 31°33'15", long 92°53'20", Natchitoches Parish, on left bank at south end of drainage canal and floodgates on State Highway 495, and 2.2 miles northeast of Cloutierville.	582	1960-73	1973	<95.25
07355400	Bayou Marteau near Rock Hill, La.	Lat 31°25'30", long 92°35'50", Grant Parish, at bridge on parish road, 2.2 miles southwest of Rock Hill, and 5.0 miles northeast of Boyce.	--	1960-73	5- 8-73	83.50
07355475	Bayou Rapides near Alexandria, La.	Lat 31°18'43", long 92°33'38", Rapides Parish, at bridge on parish road, 12.2 miles upstream from Red River, and 6.9 miles west of Alexandria city hall.	--	1963-65, 1968-73	1973	<81.90
07355490	Bayou Rapides at control structure at Alexandria, La.	Lat 31°17'59", long 92°29'42", Rapides Parish, 100 ft north of State Highway 496, and 3.1 miles west of Alexandria city hall.	--	1963-73	4-17-73	77.93
07371600	Dugdemona River near Dodson, La.	Lat 32°07'22", long 92°48'24", Winn Parish, at bridge on State Highway 126, and 9.1 miles northwest of Dodson.	412	1959-72	3-18-73	21.73
Bayou Baton Rouge basin						
07373970	Baker Canal at Baker, La.	Lat 30°35'19", long 91°10'24", East Baton Rouge Parish, at bridge on parish road, 0.3 mile west of Baker.	--	1962-73	3-24-73	70.94
07373980	Baker Canal near Baker, La.	Lat 30°34'49", long 91°12'43", East Baton Rouge Parish, at bridge on U.S. Highway 61, 2.7 miles southwest of Baker.	--	1962-73	3-24-73	58.70
Mississippi River Delta						
07374570	Oakes diversion channel at Slidell, La.	Lat 30°17'35", long 89°46'00", St. Tammany Parish, at culvert on Roberts Road, 0.4 mile north of Couss Road at Slidell.	--	1966-73	4-18-73	†7.67
07375410	Tangipahoa River at Tangipahoa, La.	Lat 30°52'36", long 90°29'44", Tangipahoa Parish, at bridge on State Highway 1057, and 1.0 mile east of Tangipahoa.	340	1959-65, 1967-73	3-24-73	†24.60
07375420	Tangipahoa River at Arcola, La.	Lat 30°46'36", long 90°29'53", Tangipahoa Parish, at bridge on State Highway 10, and 0.7 mile east of Arcola.	381	1959-65, 1967-73	3-24-73	†23.64
07377150	Amite River at Grangeville, La.	Lat 30°44'10", long 90°50'30", East Feliciana-St. Helena Parish line, at bridge on State Highway 37, and 0.5 mile southwest of Grangeville.	741	1951-63a, 1964-73	3-24-73	116.17
07377400	Comite River near Clinton, La.	Lat 30°51'30", long 91°02'20", East Feliciana Parish, at bridge on State Highway 10, and 1.3 miles west of Clinton.	c112	1949-65a, 1969-73	3-24-73	178.92
07377750	Comite River near Zachary, La.	Lat 30°38'35", long 91°05'40", East Baton Rouge Parish, at bridge on State Highway 64, and 3.7 miles east of Zachary.	230	1951-63a, 1964-73	3-24-73	87.03
07377760	Comite River at Comite Drive, near Baton Rouge, La.	Lat 30°33'24", long 91°05'53", East Baton Rouge Parish, at bridge 9.0 miles northeast of Baton Rouge Post Office.	--	1962-73	3-24-73	56.21
07377780	White Bayou at State Highway 64, near Zachary, La.	Lat 30°38'10", long 91°07'38", East Baton Rouge Parish, at bridge 1.1 miles east of Zachary.	--	1962-73	3-24-73	90.37
07377840	White Bayou near Baton Rouge, La.	Lat 30°35'06", long 91°07'31", East Baton Rouge Parish, at bridge on Plank Rd., 10.0 miles northeast of Baton Rouge Post Office.	--	1962-73	3-24-73	69.19
07377890	Cypress Bayou at Baker, La.	Lat 30°34'31", long 91°10'01", East Baton Rouge Parish, at bridge on Lavey Lane, 0.2 mile east of State Highway 19 at Baker.	--	1967-73	3-24-73	67.87
07377900	Cypress Bayou at Plank Rd., near Baton Rouge, La.	Lat 30°32'32", long 91°08'18", East Baton Rouge Parish, at bridge 6.9 miles northeast of Baton Rouge Post Office.	--	1962-65, 1967-73	3-24-73	50.95

PEAK ELEVATIONS AT FLOOD-PROFILE PARTIAL-RECORD STATIONS

Annual maximum elevation at flood-profile partial-record stations during water year 1973--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Flood peak	
					Date	Elevation (feet above mean sea level)
Mississippi River Delta--Continued						
07377920	Cypress Bayou at Hooper Rd., near Baton Rouge, La.	Lat 30°31'42", long 91°06'35", East Baton Rouge Parish, at bridge 7.0 miles northeast of Baton Rouge Post Office.	--	1962-73	3-24-73	47.39
07377940	Blackwater Bayou near Baton Rouge, La.	Lat 30°32'06", long 91°04'53", East Baton Rouge Parish, at bridge on Hooper Rd., 8.5 miles northeast of Baton Rouge Post Office.	14.1	1962-73	3-24-73	51.91
07378008	Hurricane Creek at Baton Rouge, La.	Lat 30°28'55", long 91°07'41", East Baton Rouge Parish, at bridge on East Brookstown Dr., 3.9 miles northeast of Baton Rouge Post Office.	--	1967-73	3-24-73 4-16-73	39.96 40.48
07378010	Hurricane Creek near Baton Rouge, La.	Lat 30°29'14", long 91°05'20", East Baton Rouge Parish, at bridge on Joor Rd., 6.2 miles northeast of Baton Rouge Post Office.	--	1962-73	3-24-73 3-16-73	42.40 41.64
07378015	Roberts Canal at Baton Rouge, La.	Lat 30°30'22", long 91°07'31", East Baton Rouge Parish, at bridge on Silver Leaf Ave., 5.3 miles northeast of Baton Rouge Post Office.	--	1967-73	3-24-73 4-16-73	†13.72 †13.75
07378020	Roberts Canal near Baton Rouge, La.	Lat 30°29'55", long 91°05'17", East Baton Rouge Parish, at bridge on Joor Rd., 6.6 miles northeast of Baton Rouge Post Office.	--	1962-73	3-24-73 4-16-73	45.75 45.63
07378050	Comite River at Greenwell Springs Rd., near Baton Rouge, La.	Lat 30°30'20", long 91°02'24", East Baton Rouge Parish, at bridge 9.4 miles northeast of Baton Rouge Post Office.	--	1962-73	3-24-73	40.69
07378075	Beaver Bayou at Denham Rd., near Baton Rouge, La.	Lat 30°35'15", long 91°01'29", East Baton Rouge Parish, at culvert 13.7 miles northeast of Baton Rouge Post Office.	--	1973	3-24-73	†15.76
07378100	Beaver Bayou at Wax Rd., near Baton Rouge, La.	Lat 30°32'34", long 91°01'14", East Baton Rouge Parish, at culvert 11.8 miles northeast of Baton Rouge Post Office.	--	1973	3-24-73	†17.36
07378595	Jones Creek at Airline Hwy., at Baton Rouge, La.	Lat 30°27'12", long 91°05'15", East Baton Rouge Parish, at culvert 5.1 miles northeast of Baton Rouge Post Office.	--	1967-73	3-24-73 4-16-73 4-17-73	†4.98 †5.66 †5.14
07378600	Jones Creek at Florida Blvd., at Baton Rouge, La.	Lat 30°27'21", long 91°04'29", East Baton Rouge Parish, at bridge 6.5 miles east of Baton Rouge Post Office.	--	1962-73	3-24-73 4-16-73 4-17-73	42.20 42.82 42.17
07378635	Lively Bayou northeast of Baton Rouge, La.	Lat 30°28'14", long 91°02'04", East Baton Rouge Parish, at bridge on Flannery Rd., 9.0 miles northeast of Baton Rouge Post Office.	--	1967-73	3-24-73	†6.96
07378640	Lively Bayou east of Baton Rouge, La.	Lat 30°27'40", long 91°02'04", East Baton Rouge Parish, at bridge on Flannery Rd., 8.9 miles east of Baton Rouge Post Office.	--	1967-73	3-24-73	39.11
07378645	Lively Bayou southeast of Baton Rouge, La.	Lat 30°26'47", long 91°02'04", East Baton Rouge Parish, at bridge on Flannery Rd., 8.8 miles southeast of Baton Rouge Post Office.	--	1967-73	3-24-73	36.59
07378650	Jones Creek at Old Hammond Hwy., near Baton Rouge, La.	Lat 30°26'26", long 91°02'40", East Baton Rouge Parish, at bridge 8.4 miles east of Baton Rouge Post Office.	--	1962-73	3-24-73 4-16-73 4-17-73	37.15 36.60 35.50
07378670	Weiner Creek near Baton Rouge, La.	Lat 30°25'08", long 91°03'55", East Baton Rouge Parish, at bridge on Aubin Lane, 7.3 miles southeast of Baton Rouge Post Office.	--	1967-73	4-16-73	†9.97
07378700	Jones Creek near Woodlawn School, near Baton Rouge, La.	Lat 30°24'50", long 91°00'50", East Baton Rouge Parish, at bridge on Jones Creek Rd., 1.6 miles north of Woodlawn School, and 10.5 miles east of Baton Rouge Post Office.	19.5	1967-73	3-24-73 4-16-73 4-17-73	28.25 25.59 25.08
07378710	Amite River near Baton Rouge, La.	Lat 30°23'52", long 90°58'23", East Baton Rouge Parish, 3,400 ft downstream from Jones Creek, and 13 miles southeast of Baton Rouge Post Office.	--	1968-73	3-24-73	> 25.79
07378720	Clay Cut Bayou at Siegen Lane, near Baton Rouge, La.	Lat 30°23'46", long 91°03'20", East Baton Rouge Parish, at bridge 7.9 miles southeast of Baton Rouge Post Office.	--	1967-73	3-24-73	24.66

Annual maximum elevation at flood-profile partial-record stations during water year 1973--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Flood peak	
					Date	Elevation (feet above mean sea level)
Mississippi River Delta--Continued						
07378725	Clay Cut Bayou near Hope Villa, La.	Lat 30°22'23", long 90°58'10", East Baton Rouge Parish, at bridge on Tiger Bend Rd., 2.3 miles northeast of Hope Villa.	--	1967-73	3-24-73	21.58
07378780	Bayou Fountain at Ben Hur Rd., at Baton Rouge, La.	Lat 30°23'30", long 91°09'36", East Baton Rouge Parish, at bridge 4.2 miles southeast of Baton Rouge Post Office.	--	1962-73	3-24-73 4-16-73	18.86 18.72
07378800	Bayou Fountain at Gardere Lane, near Baton Rouge, La.	Lat 30°21'52", long 91°07'16", East Baton Rouge Parish, at bridge 6.9 miles southeast of Baton Rouge Post Office.	--	1962-66, 1969-73	3-24-73 4-16-73	15.68 16.05
07378805	Bayou Fountain tributary near Baton Rouge, La.	Lat 30°21'00", long 91°04'54", East Baton Rouge Parish, at culvert on Highland Rd., 9.1 miles southeast of Baton Rouge Post Office.	--	1967-73	3-24-73 4-16-73	12.45 12.09
07379010	Ward Creek at College Drive, at Baton Rouge, La.	Lat 30°26'08", long 91°07'59", East Baton Rouge Parish, at bridge 3.5 miles southeast of Baton Rouge Post Office.	--	1967, 1969-73	3-24-73 4-16-73	38.25 38.75
07379090	North Branch Ward Creek at Goodwood Blvd., at Baton Rouge, La.	Lat 30°26'34", long 91°05'57", East Baton Rouge Parish, at bridge 5.5 miles southeast of Baton Rouge Post Office.	--	1967-73	3-24-73 4-16-73	37.18 <35.0
07379100	North Branch Ward Creek at Baton Rouge, La.	Lat 30°25'04", long 91°05'29", East Baton Rouge Parish, at bridge on Jefferson Highway, 5.9 miles southeast of Baton Rouge Post Office.	--	1962-73	3-24-73 4-16-73	29.61 30.23
07379400	Dawson Creek at Perkins Rd., at Baton Rouge, La.	Lat 30°24'37", long 91°07'53", East Baton Rouge Parish, 4.1 miles southeast of Baton Rouge Post Office.	--	1962-73	3-24-73	23.04
07379502	Corporation Canal at Oklahoma St., at Baton Rouge, La.	Lat 30°26'05", long 91°11'12", East Baton Rouge Parish, at bridge 1.0 mile south of Baton Rouge Post Office.	--	1971-73	3-24-73 4-16-73 4-17-73	24.27 26.02 24.61
07379505	Corporation Canal at Chimes St., at Baton Rouge, La.	Lat 30°25'02", long 91°10'22", East Baton Rouge Parish, at bridge 2.4 miles southeast of Baton Rouge Post Office.	--	1971-73	3-24-73 4-16-73 4-17-73	22.88 23.07 22.52
07379507	Corporation Canal at Campus Drive, at Baton Rouge, La.	Lat 30°24'14", long 91°10'15", East Baton Rouge Parish, at bridge 2.7 miles southeast of Baton Rouge Post Office.	--	1971-73	3-24-73 4-16-73 4-17-73	22.09 21.93 22.17
07379508	Corporation Canal at Stanford Ave., at Baton Rouge, La.	Lat 30°24'24", long 91°09'52", East Baton Rouge Parish, at culvert 3.2 miles southeast of Baton Rouge Post Office.	--	1971-73	3-24-73 4-16-73 4-17-73	22.05 21.80 19.71
07379550	Bayou Duplanier at Lee Drive, at Baton Rouge, La.	Lat 30°24'05", long 91°09'09", East Baton Rouge Parish, at bridge 3.8 miles south of Baton Rouge Post Office.	--	1962-73	3-24-73	22.00
07379950	Dawson Creek at Staring Lane, near Baton Rouge, La.	Lat 30°23'19", long 91°06'42", East Baton Rouge Parish, at bridge 6.0 miles southeast of Baton Rouge Post Office.	--	1962-73	3-24-73	21.74
07380000	Ward Creek at Siegen Lane, near Baton Rouge, La.	Lat 30°22'30", long 91°04'10", East Baton Rouge Parish, at bridge 0.5 mile downstream from Dawson Creek, and 8.5 miles southeast of Baton Rouge Post Office.	40.0	1947-54b, 1955-68a, 1972-73	3-24-73 4-16-73	20.06 19.68
07380108	Bayou Manchac at mouth, near Port Vincent, La.	Lat 30°30'43", long 90°53'35", Ascension Parish, on right bank, 100 ft upstream from mouth, 2.6 miles northwest of Port Vincent.	--	1972-73	12-10-72 3-27-73	11.73 12.99
07380223	New River at Gonzales, La.	Lat 30°14'12", long 90°54'43", Ascension Parish, at bridge on U.S. Highway 61, 0.5 mile northeast of Gonzales water tower.	--	1963-73	3-24-73	9.27
07380226	Bayou Francois near Gonzales, La.	Lat 30°13'57", long 90°56'49", Ascension Parish, at bridge on State Highway 429, 1.8 miles west of Gonzales water tower.	--	1963-73	3-24-73	15.92
07380227	Bayou Francois at Gonzales, La.	Lat 30°13'35", long 90°55'14", Ascension Parish, at bridge on State Highway 44, 0.4 mile southwest of Gonzales water tower.	--	1963-73	3-24-73	7.96
07382256	Bayou Rapides-Boeuf-Cocodrie diversion channel at Alexandria, La.	Lat 30°17'43", long 92°29'38", Rapides Parish, at bridge on State Highway 28, 3.2 miles west of Alexandria city hall.	--	1963-73	10-23-72	†14.69

PEAK ELEVATIONS AT FLOOD-PROFILE PARTIAL-RECORD STATIONS

Annual maximum elevation at flood-profile partial-record stations during water year 1973--Continued

Annual maximum elevation at flood-profile partial-record stations during water year 1975--Continued						
Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Flood peak	
					Date	Elevation (feet above mean sea level)
Mississippi River Delta--Continued						
07382257	Bayou Rapides-Boeuf-Cocodrie diversion channel at State Highway 488, near Alexandria, La.	Lat 31°15'37", long 92°31'13", Rapides Parish, at bridge 5.7 miles southwest of Alexandria city hall.	--	1963-73	10-23-73	69.59
07382258	Bayou Rapides-Boeuf-Cocodrie diversion channel at U.S. Highway 165, near Alexandria, La.	Lat 31°13'39", long 92°29'49", Rapides Parish, at bridge 6.5 miles southwest of Alexandria city hall.	--	1963-73	3-24-73	<69.22
07382700	Bayou Carron at Washington, La.	Lat 30°36'55", long 92°03'50", St. Landry Parish, at bridge at southwestern edge of Washington.	82.6	1956-57d, 1960d, 1962-68d, 1973	3-24-73	48.44
07382840	Hynson Bayou at Bringham Park, at Alexandria, La.	Lat 31°17'19", long 92°27'16", Rapides Parish, on right bank just below bridge on Masonic Drive, 1.7 miles south of Alexandria city hall.	--	1963-73	10-23-72	77.79
07382850	Horseshoe Drainage Canal at Packing House Rd., at Alexandria, La.	Lat 31°16'25", long 92°26'15", Rapides Parish, at bridge 2.6 miles south of Alexandria city hall.	--	1960-73	10-23-72	71.25
07382855	Hynson Bayou at Midway St., at Alexandria, La.	Lat 31°16'15", long 92°25'22", Rapides Parish, at bridge 3.1 miles southeast of Alexandria city hall.	--	1963-73	10-23-72	70.76
07382865	Persimmon Bayou near Alexandria, La.	Lat 31°13'45", long 92°22'51", Rapides Parish, at Texas and Pacific Railway bridge, just downstream from State Highway 1, and 6.7 miles southeast of Alexandria city hall.	--	1963-73	4-17-73	67.72
07383000	Chatlin Lake Canal near LeCompte, La.	Lat 31°07'10", long 92°20'40", Rapides Parish, at bridge on State Highway 457, and 3.7 miles northeast of LeCompte.	75.9	1943-58b, 1960, 1962-73	4-17-73	62.04
07384100	Turners Bayou Canal near Woodside, La.	Lat 30°51'06", long 91°51'20", Avoyelles Parish, at bridge 0.8 mile north of Woodside.	--	1973	3-24-73	†8.27
Mermentau River basin						
08011000	Bayou Plaquemine Brule near Crowley, La.	Lat 30°14'09", long 92°23'44", Acadia Parish, at bridge on State Highway 100, and 1.8 miles northwest of Crowley.	252	1942-47a, 1965-73	3-24-73	†8.96
08012445	Bayou Chene near Welsh, La.	Lat 30°09'24", long 92°46'06", Jefferson Davis Parish, at bridge on parish road, 6.0 miles southeast of Welsh.	106	1969-73	3-24-73	19.68
08012470	Bayou Lacassine near Lake Arthur, La.	Lat 30°04'12", long 92°52'43", Jefferson Davis Parish, at bridge on State Highway 14, and 12.9 miles west of Lake Arthur.	299	1969-73	3-25-73	12.52
Calcasieu River basin						
08012600	Calcasieu River near Slagle, La.	Lat 31°13'30", long 93°06'05", Vernon Parish, at bridge on State Highway 8, and 2.2 miles northeast of Slagle.	48.1	1959-73	4-18-73	14.57
Sabine River basin						
08025700	Sandy Creek near Burr Ferry, La.	Lat 31°08'30", long 93°31'10", Vernon Parish, at bridge on State Highway 111, 5.3 miles northwest of Burr Ferry, La.	33.7	1964-73	4-16-73	111.23

† Gage datum; mean sea level of gage not determined.

< Less than amount shown.

> Greater than amount shown.

a Operated as a crest-stage partial-record station.

b Operated as a continuous-record gaging station.

c Including Pretty Creek.

d Operated as a low-flow partial-record station.

MISSISSIPPI RIVER MAIN STEM

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 downstream from Yazoo diversion canal, and at mile 430.4.

DRAINAGE AREA.--1,144,500 sq mi, approximately.

PERIOD OF RECORD.--Discharge: January 1928 to September 1972 (records for 1973 water year not available). Prior to July 1931, monthly discharge only, published in WSP 1311.

Gage heights: April 1930 to September 1972 in reports of Geological Survey. Since December 1871, referred to canal gages (above 30.0 ft only, since December 1949), and since 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 upstream in reports of Corps of Engineers. Since May 1873, in reports of U.S. Weather Bureau.

Extremes of stage intermittently 1828-71 and continuous since 1871, extremes of discharge for various years 1858-1926 and continuous 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 the Geological Survey. Supplementary water-stage recorder on left bank at site 1.1 miles upstream, maintained by Corps of Engineers. Datum of gage is 46.22 ft above mean sea level (Corps of Engineers bench mark) or 46.16 ft above mean Gulf level. See WRD 1A 1969 or WRD MISS 1971 for history of changes prior to water year 1970 and for history of gages used by the various data-collecting agencies. All gages at same datum, but readings differ due to slope of water surface between them.

AVERAGE DISCHARGE.--44 years, 552,600 cfs (400,400,000 acre-ft per year).

EXTREMES.--1971-72: Maximum daily discharge, 1,147,000 cfs May 8; maximum gage height, 37.34 ft May 13 at bridge gage, 38.85 ft at supplementary recorder; minimum daily discharge, 208,000 cfs Oct. 20, minimum gage height, 3.85 ft Oct. 21 at supplementary recorder.

Period of record: Maximum discharge, 2,080,000 cfs Feb. 17, 1937; maximum gage height, 53.2 ft Feb. 21, 1937; minimum discharge, 99,400 cfs Nov. 1, 1939; minimum gage height, -7.02 ft Feb. 3, 1940 (ice jam above).

Maximum stage known since at least 1871, 58.4 ft (Corps of Engineers gage on Yazoo diversion canal), approximately 56.0 ft May 4, 1927 (Geological Survey gage).

REMARKS.--Records excellent. Natural flow of stream affected by many reservoirs and navigation dams. See the following page for table of daily gage height.

COOPERATION.--Supplementary gage-height records, ninety-six discharge measurements, and records of daily discharge furnished by Corps of Engineers; gage-height records obtained and records reviewed by Geological Survey.

REVISIONS.--WSP 747: Drainage area.

DISCHARGE, IN THOUSANDS OF CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	301	272	289	600	582	583	756	1,039	600	434	390	366
2	295	288	291	584	588	597	753	1,063	566	435	386	351
3	289	299	295	561	603	619	746	1,083	529	449	392	339
4	282	307	295	562	611	653	738	1,105	496	481	402	328
5	279	299	300	554	621	694	727	1,125	459	521	413	327
6	283	283	309	554	637	732	714	1,136	435	553	417	325
7	289	269	320	566	640	760	698	1,142	417	569	420	322
8	293	256	331	589	620	796	686	1,147	407	591	426	321
9	284	249	342	633	618	827	669	1,143	398	592	440	317
10	273	251	355	677	663	852	650	1,146	391	600	454	315
11	265	260	367	708	547	876	620	1,143	386	577	457	314
12	259	273	464	734	575	894	591	1,145	373	546	451	309
13	258	249	558	755	563	904	573	1,136	362	527	454	306
14	256	303	614	771	544	908	565	1,125	354	502	453	306
15	253	322	670	793	523	908	566	1,110	352	478	456	305
16	250	329	688	818	510	908	586	1,101	351	464	450	305
17	246	321	701	834	495	909	606	1,080	340	453	440	303
18	237	310	721	834	481	902	630	1,069	332	433	430	306
19	220	304	741	831	463	895	669	1,053	326	424	425	307
20	208	300	762	821	449	885	712	1,022	325	422	419	310
21	210	300	780	807	449	877	754	992	331	420	416	322
22	217	295	793	787	460	866	800	966	338	417	411	335
23	220	292	805	769	467	852	842	942	350	413	412	350
24	225	290	817	745	522	835	879	915	373	414	414	366
25	229	288	811	706	552	823	905	892	397	415	412	382
26	235	287	795	666	570	807	933	861	412	416	406	393
27	249	284	757	626	577	794	952	827	426	418	400	396
28	253	283	721	595	577	784	969	781	437	420	402	394
29	256	281	685	577	581	773	995	732	444	416	398	389
30	251	284	648	571	-----	765	1,019	682	437	411	396	386
31	257	-----	608	576	-----	760	-----	639	-----	405	386	-----
TOTAL	7,922	8,668	17,633	21,204	16,096	25,038	22,305	31,342	12,144	14,616	13,028	10,095
MEAN	256	289	569	684	555	808	744	1,011	405	471	420	337
MAX	301	329	817	834	640	904	1,019	1,147	600	600	457	396
MIN	208	249	289	554	449	583	565	639	325	405	386	303
AC-FT	15,710	17,190	34,980	42,660	31,930	49,660	44,240	62,170	24,090	28,990	25,840	20,020

CAL YR 1971 TOTAL 190,322 MEAN 521.4 MAX 1,317 MIN 208.0 AC-FT 377,500
WTR YR 1972 TOTAL 200,091 MEAN 546.7 MAX 1,147 MIN 208.0 AC-FT 396,900

NOTE.--Discharge computed from records of supplementary recorder.

LOWER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER MAIN STEM

07289000 Mississippi River at Vicksburg, Miss.--Continued

GAGE HEIGHT, IN FEET, AT 0800, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.80	6.00	6.70	21.40	20.60	19.70	27.10	35.30	23.80	14.60	13.40	12.00
2	8.00	6.60	6.80	21.00	20.80	20.20	27.00	36.00	22.20	14.60	13.00	11.20
3	7.30	7.10	6.90	20.50	21.00	21.00	26.80	36.50	20.70	15.00	13.40	10.50
4	7.00	7.60	6.90	20.30	21.40	21.90	26.60	36.90	19.30	16.00	13.80	10.10
5	6.90	7.50	7.00	20.00	21.60	23.20	26.30	37.40	17.90	17.30	14.20	9.80
6	7.10	7.00	7.60	19.60	21.60	24.20	25.90	37.80	16.50	18.80	14.60	9.70
7	7.40	6.40	8.10	19.50	21.80	25.30	25.40	38.20	15.50	19.90	14.80	9.60
8	7.60	5.70	8.60	20.00	21.60	26.50	24.90	38.40	14.80	20.60	14.90	9.40
9	7.40	5.30	9.20	21.10	21.30	27.60	24.20	38.60	14.30	21.30	15.00	9.10
10	6.90	5.40	10.10	22.80	20.90	28.60	23.30	38.60	13.90	21.60	15.40	8.90
11	6.30	5.80	11.00	24.20	20.40	29.40	22.30	38.70	13.50	21.30	15.70	8.80
12	5.60	6.40	13.00	25.10	20.00	30.00	21.40	38.70	13.10	20.50	15.60	8.60
13	5.20	7.20	17.00	26.00	19.40	30.50	20.70	38.80	12.50	19.50	15.60	8.40
14	5.20	8.00	19.60	26.50	18.90	30.70	20.30	38.70	12.00	18.50	15.80	8.50
15	5.10	8.60	21.50	27.10	18.10	30.90	20.30	38.60	11.70	17.50	15.90	8.50
16	5.00	8.80	22.40	27.60	17.30	31.00	20.70	38.20	11.70	16.70	16.00	8.50
17	4.70	8.60	23.30	28.00	16.60	31.10	21.40	37.90	11.50	16.20	15.70	8.40
18	4.30	8.10	24.20	28.30	15.80	31.00	22.20	37.40	11.00	15.50	15.30	8.40
19	4.00	7.70	25.10	28.30	15.00	31.00	23.40	37.00	10.60	14.90	14.80	8.50
20	3.90	7.40	26.00	28.20	14.40	30.70	24.80	36.60	10.40	14.80	14.50	8.50
21	3.80	7.40	26.70	28.00	14.10	30.60	26.40	36.00	10.50	14.70	14.20	8.90
22	4.00	7.30	27.10	27.60	14.40	30.40	27.80	35.40	10.80	14.70	13.90	9.40
23	4.00	7.20	27.30	27.00	15.20	30.10	29.00	34.80	11.30	14.60	13.70	10.20
24	4.40	7.00	27.40	26.50	16.50	29.90	30.20	34.00	12.00	14.70	13.80	10.90
25	4.50	6.80	27.40	25.60	17.80	29.50	31.20	33.20	12.90	14.70	13.80	11.70
26	4.70	6.60	27.10	24.40	19.00	29.10	32.00	32.30	13.70	14.50	13.60	12.40
27	5.20	6.60	26.40	23.20	19.40	28.70	32.70	31.40	14.20	14.40	13.40	12.80
28	5.80	6.40	25.40	22.00	19.60	28.30	33.30	30.20	14.40	14.30	13.50	12.90
29	6.00	6.30	24.40	21.10	19.60	28.00	33.90	28.70	14.70	14.20	13.40	12.80
30	5.80	6.40	23.50	20.60	-----	27.60	34.60	27.70	14.70	14.10	13.20	12.50
31	5.70	-----	22.40	20.40	-----	27.40	-----	25.50	-----	13.80	12.80	-----

NOTE.--Gage heights based on records of supplementary recorder.

07348500 Red River at Shreveport, La.

LOCATION.--Lat 32°30'55", long 93°44'25", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.30, T.18 N., R.13 W., Caddo Parish, on second pier from east bank, at Illinois Central Railroad bridge at Shreveport, 0.5 mile downstream from Cross Bayou.

DRAINAGE AREA.--60,613 sq mi, of which 5,936 sq mi above Denison Dam is noncontributing.

PERIOD OF RECORD.--August 1928 to September 1972. Daily gage heights since May 1873 and discharge intermittently 1872 to 1905 in reports of Mississippi River Commission.

GAGE.--Water-stage recorder. Datum of gage is 131.48 ft above mean sea level (levels by Corps of Engineers). Prior to June 1, 1918, nonrecording gage at same site at datum 10 ft higher.

AVERAGE DISCHARGE.--44 years, 23,760 cfs (17,214,000 acre-ft per year).

EXTREMES.--1971-72: Maximum discharge, 134,000 cfs Dec. 16 (gage height, 24.95 ft); minimum daily, 2,300 cfs Oct. 2.
Period of record: Maximum discharge, 303,000 cfs Apr. 5, 1945 (discharge measurement); maximum gage height, 37.9 ft in gage well, 38.4 ft from outside gage, Apr. 7, 1945; minimum discharge, 690 cfs Oct. 30, 1956; minimum gage height, 0.24 ft Nov. 9, 1939.
Maximum stage known, 45.9 ft, present datum, in August 1849.

REMARKS.--Regulation by Lake Texoma, Millwood Reservoir, and Texarkana Reservoir.

COOPERATION.--Gage-height record, and computations of daily discharge furnished by Corps of Engineers; records reviewed by Geological Survey.

REVISIONS (WATER YEARS)--WSP 1211: Drainage area. WSP 1920: 1960(M).

NOTE.--Records for 1973 water year are not available in time for inclusion in this report. They will be published in a subsequent report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,500	18,000	9,100	66,000	30,000	14,000	9,600	11,000	4,900	4,700	4,100	2,600
2	2,300	16,000	8,800	63,000	30,000	14,000	8,900	10,000	5,500	4,900	4,000	2,300
3	2,700	15,000	8,600	64,000	27,000	13,000	8,100	9,600	6,000	5,000	4,300	2,000
4	3,800	14,000	8,400	65,000	24,000	14,000	7,700	9,200	5,700	5,300	4,700	1,800
5	5,700	14,000	8,800	65,000	22,000	13,000	8,100	9,300	4,700	5,400	4,700	1,700
6	6,500	14,000	9,500	61,000	22,000	12,000	8,400	9,400	4,300	5,000	4,300	1,600
7	6,200	14,000	12,000	57,000	22,000	12,000	8,600	9,800	4,000	4,700	3,800	1,700
8	5,900	14,000	22,000	52,000	22,000	10,000	8,500	10,000	3,700	4,500	3,200	1,900
9	6,000	13,000	36,000	50,000	22,000	9,400	7,800	11,000	3,400	4,300	2,700	1,900
10	6,500	13,000	54,000	49,000	22,000	8,500	7,100	11,000	3,400	4,300	2,500	1,800
11	7,500	13,000	66,000	49,000	22,000	7,600	7,100	9,200	3,500	3,500	2,500	1,700
12	8,400	14,000	87,000	48,000	21,000	7,000	7,900	7,900	3,500	2,900	2,500	1,600
13	8,500	13,000	102,000	46,000	21,000	6,500	7,700	7,300	3,100	2,700	2,500	1,500
14	8,200	13,000	116,000	44,000	21,000	6,300	6,700	6,800	3,300	2,500	2,300	1,500
15	7,600	13,000	127,000	43,000	20,000	6,600	6,400	6,300	3,700	2,400	2,200	1,500
16	7,300	12,000	133,000	41,000	20,000	7,400	5,800	5,700	4,000	2,300	2,100	1,500
17	7,100	12,000	130,000	39,000	20,000	8,000	5,400	5,400	4,200	2,300	2,100	1,500
18	6,300	12,000	124,000	36,000	20,000	8,500	4,900	5,200	4,300	2,300	2,000	1,600
19	5,400	12,000	115,000	34,000	21,000	8,700	5,000	5,600	4,200	2,200	1,900	1,900
20	4,700	11,000	101,000	32,000	26,000	8,700	5,300	7,800	3,700	2,300	2,100	2,000
21	4,700	11,000	96,000	31,000	30,000	9,400	5,500	8,700	3,500	2,800	2,400	2,100
22	5,400	11,000	92,000	30,000	28,000	10,000	5,300	7,800	3,800	2,900	2,500	2,100
23	16,000	11,000	89,000	29,000	26,000	10,000	5,300	6,400	3,900	3,000	2,600	2,100
24	49,000	13,000	87,000	28,000	23,000	9,600	5,300	5,600	3,700	2,900	2,400	2,400
25	58,000	16,000	85,000	26,000	20,000	9,300	5,500	5,500	3,800	2,600	2,200	2,900
26	50,000	15,000	81,000	24,000	19,000	9,100	6,300	5,400	3,500	2,600	2,100	3,300
27	36,000	13,000	79,000	23,000	17,000	8,900	14,000	5,100	3,300	3,000	2,300	3,600
28	30,000	11,000	79,000	23,000	15,000	10,000	17,000	4,900	3,500	3,700	2,300	4,100
29	26,000	10,000	78,000	25,000	15,000	11,000	15,000	4,600	4,000	5,000	2,400	4,500
30	23,000	9,700	72,000	28,000	-----	10,000	13,000	4,300	4,500	5,100	2,600	4,400
31	20,000	-----	68,000	29,000	-----	10,000	-----	4,500	-----	4,800	2,600	-----
TOTAL	437,200	390,700	2,184,200	1,300,000	648,000	302,500	237,200	230,300	120,000	111,900	86,900	67,100
MEAN	14,100	13,020	70,460	41,900	22,350	9,758	7,907	7,429	4,020	3,610	2,803	2,237
MAX	58,000	18,000	133,000	66,000	30,000	14,000	17,000	11,000	6,000	5,400	4,700	4,500
MIN	2,300	9,700	8,400	23,000	15,000	6,300	4,900	4,300	3,100	2,200	1,900	1,500
AC-FT	867,200	775,000	4,332,000	2,579,000	1,285,300	600,000	470,500	456,800	239,200	222,000	172,400	133,100
CAL YR 1971	TOTAL	5,669,700	MEAN	15,530	MAX	133,000	MIN	2,300	AC-FT	11,250,000		
WTR YR 1972	TOTAL	6,116,000	MEAN	16,710	MAX	58,000	MIN	1,500	AC-FT	12,130,000		

07355500 Red River at Alexandria, La.

LOCATION.--Lat 31°18'46", long 92°26'34", in SE¼ sec.10, T.4 N., R.1 W., Rapides Parish, near center of span on downstream side of old bridge on U.S. Highway 165 between Alexandria and Pineville, and 1.7 miles downstream from Bayou Rigolette.

DRAINAGE AREA.--67,500 sq mi, of which 5,936 sq mi above Denison Dam is noncontributing.

RECORDS AVAILABLE.--October 1928 to September 1971. Since January 1928, in reports of Mississippi River Commission. Discharge observations in 1858 and intermittently 1879 to 1927 and gage heights since 1872, in reports of Mississippi River Commission.

GAGE.--Wire-weight gage read twice daily. Datum of gage is 44.26 ft above mean sea level or 44.18 ft above mean Gulf level, datum of Mississippi River Commission (levels by Corps of Engineers). Prior to July 14, 1934, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--44 years, 30,400 cfs (22,020,000 acre-ft per year).

EXTREMES.--1971-72: Maximum discharge, 140,000 cfs Dec. 19 (gage height, 28.80 ft); minimum daily 2,200 cfs Sept. 16-17, 20-23. Period of record: Maximum discharge, 233,000 cfs Apr. 17, 1945 (gage height, 45.23 ft); minimum, 873 cfs Oct. 30, 1956 (gage height, -3.01 ft).
A discharge of 210,000 cfs was measured July 2, 1908 (gage height, 41.6 ft).

REMARKS.--Regulation by Lake Texoma, Millwood Reservoir, and Texarkana Reservoir. Records of chemical analyses and suspended sediment for the water year 1973 are published in Part 2 of this report.

COOPERATION.--Computations of daily discharge furnished by Corps of Engineers; records reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1211: Drainage area. WSP 1241: 1929-36.

NOTE.--Records for 1973 water year are not available in time for inclusion in this report. They will be published in a subsequent report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5,000	24,000	14,000	77,000	43,000	22,000	17,000	18,000	6,200	4,300	8,000	3,000
2	4,600	21,000	14,000	73,000	44,000	24,000	16,000	18,000	5,600	4,800	10,000	3,100
3	4,500	19,000	16,000	74,000	44,000	25,000	16,000	18,000	5,600	5,600	10,000	3,300
4	4,200	17,000	17,000	81,000	42,000	24,000	15,000	17,000	5,900	6,800	9,200	3,200
5	4,000	16,000	16,000	90,000	39,000	23,000	14,000	16,000	6,500	9,100	8,200	3,200
6	3,900	15,000	21,000	92,000	36,000	22,000	13,000	15,000	6,800	10,000	8,000	3,100
7	5,000	14,000	23,000	91,000	34,000	21,000	12,000	14,000	6,600	9,900	7,700	2,900
8	6,400	14,000	22,000	88,000	34,000	21,000	12,000	14,000	6,100	9,500	7,600	2,600
9	7,000	13,000	23,000	81,000	34,000	20,000	12,000	14,000	5,600	8,400	6,900	2,500
10	6,800	13,000	35,000	76,000	34,000	19,000	12,000	14,000	5,200	7,600	5,800	2,400
11	6,300	13,000	42,000	74,000	33,000	17,000	12,000	14,000	4,900	7,000	4,800	2,300
12	5,900	13,000	52,000	71,000	33,000	16,000	11,000	14,000	4,700	7,000	4,100	2,500
13	6,000	13,000	67,000	67,000	32,000	15,000	10,000	15,000	4,700	6,600	3,600	2,600
14	6,800	14,000	83,000	64,000	32,000	14,000	10,000	15,000	4,800	5,800	3,400	2,600
15	7,800	14,000	100,000	62,000	31,000	13,000	10,000	13,000	5,100	5,000	3,500	2,400
16	8,200	14,000	117,000	61,000	29,000	12,000	10,000	12,000	5,600	4,400	3,400	2,200
17	8,100	13,000	127,000	57,000	29,000	12,000	9,300	11,000	7,500	4,200	3,300	2,200
18	7,600	13,000	132,000	55,000	28,000	12,000	8,700	9,800	8,800	4,000	3,100	2,300
19	7,000	13,000	135,000	51,000	27,000	12,000	8,500	8,900	9,300	3,900	2,900	2,300
20	6,600	14,000	132,000	50,000	26,000	13,000	8,000	8,100	9,600	3,700	2,800	2,200
21	6,100	13,000	124,000	49,000	27,000	14,000	7,600	7,700	9,300	3,700	2,700	2,200
22	6,000	13,000	117,000	47,000	30,000	15,000	7,600	8,300	7,900	4,700	2,600	2,200
23	5,900	13,000	110,000	44,000	33,000	16,000	8,100	9,400	6,600	5,300	2,500	2,200
24	6,500	12,000	103,000	41,000	34,000	17,000	8,400	9,800	5,700	5,700	2,900	2,400
25	20,000	12,000	101,000	38,000	32,000	18,000	8,500	9,400	5,400	6,200	3,000	2,500
26	44,000	13,000	98,000	35,000	29,000	17,000	8,200	8,500	5,400	6,300	3,200	2,800
27	52,000	15,000	95,000	34,000	26,000	16,000	8,000	7,600	5,200	5,900	3,200	3,000
28	47,000	16,000	91,000	31,000	24,000	16,000	8,200	7,200	4,800	5,800	3,100	3,300
29	38,000	16,000	88,000	31,000	23,000	16,000	12,000	7,000	4,600	5,800	3,100	3,600
30	32,000	15,000	86,000	35,000	-----	16,000	17,000	7,000	4,400	5,900	3,100	3,900
31	28,000	-----	84,000	40,000	-----	16,000	-----	6,700	-----	6,500	3,100	-----
TOTAL	407,200	438,000	2,285,000	1,860,000	942,000	534,000	330,100	367,400	184,400	189,400	148,800	81,000
MEAN	13,140	14,600	73,710	60,000	32,480	17,230	11,000	11,850	6,147	6,110	4,800	2,700
MAX	52,000	24,000	135,000	92,000	44,000	25,000	17,000	18,000	9,600	10,000	10,000	3,900
MIN	3,900	12,000	14,000	31,000	23,000	12,000	7,600	6,700	4,400	3,700	2,500	2,200
AC-FT	807,700	868,800	4,532,000	3,689,000	1,868,000	1,059,000	654,800	728,700	365,800	375,700	295,100	160,700
CAL YR 1971: TOTAL	6,560,400			MEAN 17,970	MAX 135,000	MIN 3,900	AC-FT 13,010,000					
WTR YR 1972: TOTAL	7,767,300			MEAN 21,220	MAX 135,000	MIN 2,200	AC-FT 15,410,000					

RED RIVER BASIN

149

07365800 Cornie Bayou near Three Creeks, Ark.

LOCATION.--Lat 33°02'21", long 92°56'15", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.36, T.19 S., R.18 W., Union County, on left bank at downstream side of bridge on State Highway 15, 3.4 miles downstream from Pidgeon Roost Creek, and 6.0 miles southwest of town of Three Creeks.

DRAINAGE AREA.--180 sq mi.

PERIOD OF RECORD.--February 1956 to September 1972.

GAGE.--Water-stage recorder. Prior to Oct. 29, 1959, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--16 years, 143 cfs (10.79 inches per year, 103,600 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,290 cfs Jan. 5 (gage height, 10.09 ft); no flow Sept. 15-16.

Period of record: Maximum discharge, 35,800 cfs Apr. 27, 1958 (gage height, 15.50 ft), from rating curve extended above 11,000 cfs on basis of contracted-opening measurement of peak flow; no flow at times in 1956, 1964, 1968, 1969, 1970, 1972. Maximum stage since at least 1880, that of Apr. 27, 1958.

REMARKS.--Records good.

NOTE.--Records for 1973 water year are not available in time for inclusion in this report. They will be published in a subsequent report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	2.7	5.0	86	270	30	422	9.7	2.2	1.5	16	.29
2	1.2	2.4	5.7	391	200	74	226	32	2.0	2.6	12	.21
3	1.2	2.2	18	468	160	145	96	94	1.9	6.5	6.8	.17
4	1.3	1.9	29	810	120	201	66	169	1.7	18	4.0	.24
5	1.1	1.7	36	1,230	90	200	53	207	1.6	22	2.3	.47
6	1.8	1.5	42	1,000	90	119	45	150	1.4	34	1.5	.50
7	1.9	1.5	46	550	75	74	40	53	1.2	24	1.0	.47
8	1.6	1.3	52	300	60	63	37	31	1.1	15	.78	.24
9	1.3	1.2	66	190	50	79	33	23	1.0	9.4	.62	.15
10	1.3	1.2	50	140	46	108	30	19	.93	6.1	.51	.12
11	1.2	1.1	38	100	42	91	26	17	.88	4.1	.45	.09
12	1.0	1.0	31	80	43	64	24	19	.83	2.8	.43	.06
13	.90	1.0	32	70	46	55	22	25	.89	2.1	.46	.04
14	.80	.95	36	60	47	67	20	25	1.6	4.3	.58	.01
15	.75	.95	38	50	49	118	19	27	6.3	2.7	.67	0
16	.70	1.1	40	45	43	180	17	22	7.2	1.6	.66	0
17	.80	1.3	37	45	39	212	15	17	5.3	1.2	.52	.01
18	1.1	4.1	46	40	37	190	13	13	6.5	1.2	.43	.08
19	1.6	20	34	40	34	112	12	10	5.2	1.0	.34	.07
20	2.2	16	25	40	35	71	10	8.5	3.6	.85	.24	.08
21	1.9	18	20	40	36	55	10	7.2	2.6	.76	.18	.16
22	1.6	19	17	35	34	48	9.4	6.1	2.1	.70	.16	5.0
23	1.5	14	14	35	33	43	8.6	5.2	1.8	.58	.18	7.6
24	1.7	9.8	13	35	39	39	8.1	4.3	2.1	.50	.17	9.0
25	1.8	7.4	12	35	49	39	8.3	3.6	2.2	.54	.25	9.6
26	2.3	5.9	11	35	47	50	8.2	3.2	1.9	.53	.49	5.1
27	2.3	5.0	10	50	41	62	7.3	3.0	1.6	.55	.40	45
28	2.5	4.8	10	80	37	68	6.9	2.9	1.4	.59	.33	16
29	3.5	4.8	10	150	32	250	7.8	2.9	1.2	1.1	.35	5.4
30	3.9	5.0	12	300	-----	424	8.0	2.7	1.2	1.7	.41	5.9
31	3.3	-----	18	390	-----	442	-----	2.4	-----	4.4	.37	-----
TOTAL	51.55	158.80	853.7	6,920	1,924	3,773	1,308.6	1,014.7	71.43	172.90	53.58	112.06
MEAN	1.66	5.29	27.5	223	66.3	122	43.6	32.7	2.38	5.58	1.73	3.74
MAX	3.9	20	66	1,230	270	442	422	207	7.2	34	16	45
MIN	.70	.95	5.0	35	32	30	6.9	2.4	.83	.50	.16	0
CFSM	.009	.03	.15	1.24	.37	.68	.24	.18	.01	.03	.010	.02
IN.	.01	.03	.18	1.43	.40	.78	.27	.21	.01	.04	.01	.02
AC-FT	102	315	1,690	13,730	3,820	7,480	2,600	2,010	142	343	106	222
CAL YR 1971	TOTAL 15,089.75	MEAN 41.3	MAX 632	MIN .20	CFSM .23	IN 3.12	AC-FT 29,930					
WTR YR 1972	TOTAL 16,414.32	MEAN 44.8	MAX 1,230	MIN 0	CFSM .25	IN 3.39	AC-FT 32,560					

PEAK DISCHARGE (BASE, 1,400 CFS).--No peak above base.

RED RIVER BASIN

07367000 Ouachita River at Monroe, La.

LOCATION.--Lat 32°30'19", long 92°07'32", in lot 50, T.18 N., R.3 E., Ouachita Parish, near center of span on downstream side of bridge on U. S. Highway 80 at Monroe, 0.4 mile upstream from Illinois Central Railroad bridge, and 5.5 miles upstream from lock and dam No. 4.

DRAINAGE AREA.--15,298 sq mi.

PERIOD OF RECORD.--January 1932 to September 1972. Monthly discharge only for some periods, published in WSP 1311. 1884 to 1891 (gauge heights), 1892 to 1927 (gauge heights and discharge measurements), and since January 1928 (daily discharges) in reports of Mississippi River Commission. Discharge measurements 1929-38 in reports of Corps of Engineers. Daily gauge heights since June 1884 in reports of U. S. Weather Bureau.

GAGE.--Nonrecording gage read once daily. Datum of gage is 31.40 ft above mean sea level (levels by Corps of Engineers). Prior to Jan. 6, 1937, nonrecording gages at several sites within half a mile of present site at same datum. Since Jan. 1, 1954, supplemental nonrecording gage 2.2 miles downstream from lock and dam No. 4 read twice daily, at datum 30.10 ft above mean sea level.

AVERAGE DISCHARGE.--40 years (1932-72), 16,750 cfs (12,140,000 acre-ft per year).

EXTREMES.--1971-72: Maximum daily discharge during year, 31,800 cfs Jan. 15; maximum gage height, 28.6 ft Jan. 15; minimum discharge not determined; minimum gage height observed, 13.5 ft Apr. 26.

Period of record: Maximum discharge, 101,000 cfs on Feb. 2, 3, 1932; maximum gage height, 50.45 ft May 23, 1958; minimum discharge not determined (pool stage); minimum gage height observed, 12.1 ft Jan. 3, 1944.

REMARKS.--Stage-discharge relation below 10,000 cfs affected by operation of locks and dams. Flow regulated by Lake Greason since November 1949 (usable capacity, 330,000 acre-ft), by Lake Catherine since 1925 (usable capacity, 21,300 acre-ft), by Lake Hamilton since 1932 (usable capacity, 119,560 acre-ft), by Lake Ouachita since July 1952 (usable capacity, 1,903,000 acre-ft), and a series of locks and dams. Records of chemical analyses and water temperatures for the water year 1972 are published in Part 2 of the 1972 report.

COOPERATION.--Gage-height record, and records of daily discharges furnished by Corps of Engineers; records reviewed by Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,800	1,320	2,910	18,800	20,100	10,900	15,900	8,300	1,100	2,400	1,880	2,300
2	1,900	1,350	3,080	19,300	20,000	11,900	16,700	9,900	1,100	2,500	1,900	2,400
3	1,900	1,400	3,100	20,000	20,000	12,700	17,000	11,300	1,100	2,600	1,900	2,500
4	1,700	1,440	3,200	21,700	19,900	13,200	16,200	12,800	1,200	2,800	1,800	2,500
5	1,480	1,470	4,400	22,900	19,900	14,000	15,400	13,900	1,300	3,100	1,800	2,500
6	1,400	1,470	6,500	24,000	19,900	14,900	14,400	14,900	1,350	3,300	1,700	2,800
7	1,350	1,410	9,100	25,000	19,900	15,200	13,000	15,300	1,400	3,400	1,700	2,800
8	1,300	1,430	10,100	25,900	19,900	15,300	12,000	15,300	1,400	3,600	1,600	3,000
9	1,250	1,520	11,100	27,000	19,800	15,300	10,500	14,900	1,400	4,000	1,500	3,300
10	1,200	1,530	11,600	28,200	19,700	15,100	9,100	13,000	1,400	4,300	1,400	3,500
11	1,150	1,500	12,300	28,900	19,200	14,900	8,210	11,000	1,300	4,700	1,200	3,700
12	1,100	1,450	13,200	30,600	18,800	14,600	7,800	9,400	1,300	4,300	1,100	3,900
13	1,150	1,370	14,100	31,200	18,000	14,100	6,900	7,800	1,300	3,600	800	4,140
14	1,200	1,380	13,200	31,600	16,900	13,400	6,100	6,200	1,300	3,300	800	4,300
15	1,200	1,200	16,100	31,800	15,100	12,000	5,600	4,900	1,500	2,800	700	4,500
16	1,150	1,120	16,900	31,600	12,900	11,900	5,200	4,200	1,500	2,300	1,000	4,700
17	1,150	1,200	17,900	31,300	11,800	12,000	5,800	3,600	1,500	2,000	1,000	4,800
18	1,150	1,410	18,300	31,000	11,000	12,500	7,000	3,300	1,500	1,820	1,200	5,000
19	1,100	1,630	18,800	30,500	10,500	12,900	7,400	3,000	1,600	1,900	1,500	5,200
20	1,050	1,710	19,100	29,900	10,000	11,900	7,100	2,800	1,600	2,000	1,700	6,000
21	1,040	1,960	19,300	29,300	8,900	11,100	6,800	2,600	1,900	1,900	1,900	7,100
22	1,000	2,310	19,600	28,600	8,100	10,400	6,200	2,100	2,100	1,900	2,200	8,100
23	1,000	2,710	19,800	27,900	7,900	10,000	6,800	1,800	2,100	1,800	2,500	8,900
24	1,100	2,830	19,900	26,900	7,400	9,500	7,100	1,580	2,100	1,700	2,700	8,100
25	1,200	2,220	19,800	26,000	7,300	8,900	6,900	1,300	2,200	1,700	3,000	7,000
26	1,250	1,600	19,800	24,900	7,300	8,100	5,900	1,300	2,300	1,800	3,000	6,900
27	1,250	1,000	19,800	23,800	8,100	8,000	4,900	1,200	2,300	1,800	2,800	4,700
28	1,300	1,290	19,400	23,000	9,100	8,500	4,700	1,100	2,400	1,800	2,800	4,280
29	1,350	1,990	19,300	22,000	10,000	9,300	5,700	1,100	2,300	1,800	2,710	4,200
30	1,400	2,710	19,200	21,000	-----	12,900	8,000	1,100	2,400	1,800	2,500	4,100
31	1,400	-----	19,000	20,400	-----	14,100	-----	1,100	-----	1,800	2,200	-----
TOTAL	39,970	48,930	441,890	815,000	417,400	379,500	270,310	202,080	49,250	80,520	56,490	136,220
MEAN	1,289	1,631	14,250	26,290	14,390	12,240	9,010	6,519	1,642	2,597	1,822	4,541
MAX	1,900	2,830	19,900	31,800	20,100	15,300	17,000	15,300	2,400	4,700	3,000	8,900
MIN	1,000	1,000	2,910	18,800	7,300	8,000	4,700	1,100	1,100	1,700	700	2,300
AC-FT	79,280	97,050	876,500	1,617,000	827,900	752,700	536,200	400,800	97,690	159,700	112,000	270,200
CAL YR 1971: TOTAL	2,710,300				19,900				5,376,000			
WTR YR 1972: TOTAL	2,937,560				31,800				5,827,000			

SABINE RIVER BASIN

151

08022000 Sabine River near Tatum, Tex.

LOCATION.--Lat 32°22'11", long 94°27'28", Rusk County, near right bank on downstream side of pier of bridge on State Highway 43, 5.1 miles northeast of Tatum, 5.2 miles upstream from Potters Creek, 5.6 miles downstream from Cherokee Bayou, and at mile 339.4.

DRAINAGE AREA.--3,493 sq mi.

PERIOD OF RECORD.--October 1938 to current year. Monthly discharge only for October 1938 to January 1939, published in WSP 1312.

GAGE.--Water-stage recorder. Datum of gage is 204.18 ft above mean sea level (levels by Corps of Engineers). Prior to Sept. 21, 1945, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--22 years (1938-60) prior to regulation by Lake Tawakoni, 2,663 cfs (1,929,000 acre-ft per year); 12 years (1960-72) after regulation by Lake Tawakoni, 1,907 cfs (1,382,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 27,100 cfs Dec. 19 (gage height, 26.95 ft); minimum, 14 cfs Sept. 20.

Period of record: Maximum discharge, 123,000 cfs Apr. 4, 1945 (gage height, 33.80 ft, from graph based on gage readings), from rating curve extended above 66,000 cfs on basis of partly estimated measurement of 88,900 cfs; minimum observed, 2.4 cfs Aug. 11, 12, 1964.

Maximum stage since at least 1884, that of Apr. 4, 1945. Flood in May 1884 reached a stage of about 32 ft, from information by local residents.

REMARKS.--Records good. Flow partly regulated by Lake Tawakoni (station 08017400) located 175 miles upstream and six small reservoirs (combined capacity, 1,022,000 acre-ft). Several diversions above station and below Lake Tawakoni for oilfield operation, municipal, and industrial use.

REVISIONS.--WSP 1732: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	465	3,720	608	10,300	3,780	660	652	511	109	490	61	40
2	482	3,990	541	9,860	3,670	1,300	621	532	107	378	59	38
3	482	4,200	636	9,410	3,530	2,140	656	746	105	303	56	38
4	447	4,320	886	10,100	3,380	1,960	775	881	104	261	52	47
5	358	4,370	969	10,300	3,180	1,590	755	781	104	238	47	61
6	266	4,300	1,640	10,400	2,920	1,300	615	602	105	193	44	60
7	218	4,010	2,500	9,980	2,530	1,130	516	453	97	165	42	39
8	184	3,440	2,900	9,250	2,090	1,100	475	361	91	153	41	34
9	166	2,710	3,100	8,650	1,800	1,110	434	322	87	152	40	33
10	150	2,000	3,270	8,250	1,540	1,310	399	290	84	147	40	31
11	210	1,470	3,460	8,070	1,290	1,380	389	265	81	141	39	25
12	300	1,060	3,580	8,080	1,220	1,240	376	258	146	178	37	23
13	290	814	3,780	8,220	1,310	1,020	354	271	146	172	41	22
14	234	624	4,260	8,390	1,240	927	337	292	127	144	51	23
15	181	492	5,060	8,510	1,130	881	323	304	217	132	59	23
16	148	412	7,580	8,560	1,050	834	313	315	411	124	72	23
17	177	354	11,000	8,510	1,030	772	316	329	720	121	92	21
18	176	416	15,500	8,270	1,030	679	302	314	631	127	67	22
19	150	710	25,800	7,770	1,020	622	274	274	831	133	52	19
20	152	1,530	25,700	6,960	985	577	257	232	1,090	114	57	16
21	128	2,000	22,700	5,520	954	559	245	194	1,260	105	56	16
22	122	2,110	20,100	3,540	928	562	232	158	1,750	104	51	22
23	134	2,120	18,200	2,120	873	549	224	149	2,390	113	43	89
24	551	2,160	16,600	1,600	849	611	224	146	2,700	118	46	114
25	1,050	2,150	15,400	1,410	837	964	224	136	2,210	106	46	354
26	1,480	2,040	14,500	1,250	775	1,100	213	130	1,460	95	46	708
27	1,870	1,730	13,700	1,130	709	1,010	249	125	1,050	83	51	488
28	2,270	1,270	13,000	1,080	660	903	499	118	849	72	48	325
29	2,680	896	12,400	1,420	641	812	651	113	714	66	42	290
30	3,060	707	11,700	2,810	-----	754	574	110	611	64	39	258
31	3,400	-----	11,000	3,670	-----	690	-----	109	-----	62	39	-----
TOTAL	21,981	62,125	292,070	203,390	46,951	31,046	12,474	9,821	20,387	4,854	1,556	3,302
MEAN	709	2,071	9,422	6,561	1,619	1,001	416	317	680	157	50.2	110
MAX	3,400	4,370	25,800	10,400	3,780	2,140	775	881	2,700	490	92	708
MIN	122	354	541	1,080	641	549	213	109	81	62	37	16
AC-FT	43,600	123,200	579,300	403,400	93,130	61,580	24,740	19,480	40,440	9,630	3,090	6,550

CAL YR 1971 TOTAL 515,551.5 MEAN 1,412 MAX 25,800 MIN 6.7 AC-FT 1,023,000
WTR YR 1972 TOTAL 709,957.0 MEAN 1,940 MAX 25,800 MIN 16 AC-FT 1,408,000

NOTE.--Gage-height record May 20 to June 11 and July 20 to Aug. 22 from once-daily readings of wire-weight gage.

PART 2. WATER QUALITY RECORDS

WATER-QUALITY RECORDS

PEARL RIVER BASIN

02489500 PEARL RIVER NEAR BOGALUSA, LA.

LOCATION.--Lat 30°47'35", long 89°49'15", on line between secs. 17 and 18, T.3 S., R.14 E., Washington Parish, at gaging station at bridge on State Highway 10, 2.0 miles east of Bogalusa, and 2.0 miles upstream from Bogue Lusa Creek.

DRAINAGE AREA.--6,630 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: November 1962 to September 1973.

Sediment records: April 1967 to September 1973.

EXTREMES.--1972-73:

Sediment concentrations: Maximum daily, 290 mg/l Dec. 23; minimum daily, 2 mg/l Oct. 15-21, Nov. 3-5.

Sediment loads: Maximum daily, 16,230 tons Dec. 23; minimum daily, 9 tons Oct. 17, 20, 21.

Period of record:

Sediment concentrations: Maximum daily, 522 mg/l Dec. 17, 1967; minimum daily, 2 mg/l Nov. 11-13, 1970, Oct. 15, 17, Nov. 14, 1971, Oct. 15-21, Nov. 3-5, 1972.

Sediment discharge: Maximum daily, 32,700 tons May 7, 1967; minimum daily, 7 tons Nov. 11-13, 1970.

REMARKS.--When discharge is greater than 11,300 cfs, there are five overflow channels. On these days sediment concentrations in the overflow channels are computed at 10 percent of the concentration in the main channel. This is used as a basis for computing total concentration and discharge.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
NOV. 15...	4,010	15	13	.6	13	2.3	--	--	--	.1
DEC. 26...	39,200	3.4	3.8	.6	4.6	2.7	10	8.2	4.3	.1
JAN. 17...	31,700	16	4.0	1.0	4.4	1.3	4	14	4.1	.1
FEB. 28...	11,900	15	4.1	.9	5.6	1.1	12	8.6	5.0	.1
MAR. 20...	27,300	9.8	3.0	1.1	3.4	.6	9	7.4	3.2	.1
APR. 23...	44,600	10	3.2	.7	2.5	1.3	10	4.0	2.4	.1
JUNE 27...	3,950	9.1	3.5	1.0	8.0	1.9	19	6.2	8.2	.0
JULY 26...	3,530	10	1.7	1.4	10	1.9	12	8.6	9.2	.1
AUG. 15...	3,160	8.3	2.5	.4	11	1.8	15	7.4	9.8	.0
SEP. 26...	2,830	11	6.0	.5	12	2.0	22	9.8	10	.1

DATE	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- CUBALT UNITS)	TUR- BID- ITY (MG/L)
NOV. 15...	.32	124	89	35	1	150	15.0	10	22
DEC. 26...	.30	65	34	12	4	59	--	40	75
JAN. 17...	.11	61	47	14	11	63	8.0	5	--
FEB. 28...	.23	64	47	14	4	63	12.0	10	27
MAR. 20...	.18	53	33	12	5	48	18.0	30	5
APR. 23...	.11	69	30	11	3	41	23.5	40	40
JUNE 27...	.20	47	48	13	0	66	28.0	15	17
JULY 26...	.10	53	50	10	0	74	28.5	10	12
AUG. 15...	.20	36	49	8	0	64	27.0	15	32
SEP. 26...	.20	77	63	17	0	91	27.0	25	--

PEARL RIVER BASIN

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02489500 PEARL RIVER NEAR BOGALUSA, LA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DATE	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)
NOV. 15...	6.5	8.2	1.4	.16	--	--	1200	4800
DEC. 26...	5.8	--	--	--	--	--	--	--
JAN. 17...	5.4	10.7	.7	.039	--	--	190	40
FEB. 28...	5.7	9.3	2.0	--	--	1500	20	55
MAR. 20...	5.5	8.0	2.0	--	--	4000	50	1100
APR. 23...	5.8	6.8	3.3	--	--	500	160	95
JUNE 27...	6.2	6.7	.5	--	--	4900	31	--
JULY 26...	6.3	5.3	.6	--	--	4500	700	65
AUG. 15...	7.1	7.1	1.1	--	.12	3000	140	40
SEP. 26...	6.6	6.6	1.5	--	--	300	25	20

DATE	ALDRIN (UG/L)	LINDANE (UG/L)	CHLOR- DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA- CHLOR (UG/L)
JAN. 17...	.00	.00	.0	.00	.00	.00	.01	.00	.00
AUG. 15...	.00	.00	.0	.00	.00	.00	.00	.00	.00

DATE	HEPTA- CHLOR EPOXIDE (UG/L)	PCB (UG/L)	MALA- THION (UG/L)	PARA- THION (UG/L)	METHYL PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
JAN. 17...	.00	--	.00	.00	.00	.00	.00	.00
AUG. 15...	.00	.0	.00	.00	.00	.00	.00	.00

PEARL RIVER BASIN
02489500 PEARL RIVER NEAR BOGALUSA, LA.--Continued
SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2,040	10	55	2,380	e10	64	4,110	20	222
2	2,040	10	55	2,280	e5	31	3,980	18	193
3	2,090	e10	56	2,210	e2	12	3,860	17	177
4	2,090	e10	56	2,160	e2	12	3,780	16	163
5	2,110	e10	57	2,160	e2	12	3,880	29	304
6	2,040	e9	50	2,220	e3	18	5,250	233	3,300
7	1,960	9	48	2,250	e4	24	10,700	281	8,120
8	1,910	9	46	2,240	e4	24	13,400	170	5,920
9	1,860	5	25	2,220	3	18	10,200	83	2,290
10	1,840	e4	20	2,180	e3	18	7,280	51	1,000
11	1,840	3	15	2,170	e4	23	5,720	38	587
12	1,820	e3	15	2,490	e15	101	4,970	29	389
13	1,790	e3	14	2,930	e34	269	4,730	23	294
14	1,760	e3	14	3,550	55	527	5,250	29	411
15	1,760	e2	10	3,960	68	727	5,800	33	517
16	1,760	2	10	3,680	37	368	6,550	46	814
17	1,750	2	9	3,530	35	334	8,300	78	1,750
18	1,760	e2	10	3,670	34	337	11,100	173	5,180
19	1,760	e2	10	3,830	20	207	12,800	239	8,090
20	1,750	e2	9	3,890	24	252	13,400	205	7,170
21	1,740	e2	9	3,650	23	227	17,300	215	8,680
22	1,760	e4	19	3,280	20	177	27,300	275	13,800
23	1,990	e35	188	3,060	20	165	33,700	290	16,230
24	1,990	e53	285	2,960	23	184	36,900	221	13,100
25	2,890	e56	437	3,130	40	338	38,400	e167	10,100
26	2,810	e56	425	3,950	51	544	39,200	151	9,270
27	2,840	e44	337	4,450	e37	445	39,200	135	8,290
28	2,970	e44	353	4,510	e25	304	38,400	119	7,220
29	2,860	e38	293	4,590	29	359	36,700	110	6,490
30	2,660	e25	180	4,350	22	258	35,200	e106	6,110
31	2,500	e16	108	-----	-----	-----	36,500	122	7,190
TOTAL	64,740	--	3,218	93,900	--	6,379	523,860	--	153,371
DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	35,200	128	7,370	12,400	50	1,650	10,300	48	1,330
2	34,600	138	7,860	11,400	55	1,690	8,520	59	1,360
3	34,100	126	7,130	12,500	66	2,180	7,370	64	1,270
4	34,100	122	6,940	16,000	135	5,240	7,600	63	1,290
5	33,400	101	5,640	18,700	182	7,640	8,700	63	1,480
6	32,400	e90	4,950	20,800	143	6,360	10,100	73	1,990
7	30,700	e92	4,900	22,300	101	4,630	11,900	91	2,870
8	30,400	e96	5,080	22,800	81	3,790	14,600	e160	5,920
9	30,200	94	4,970	23,100	e77	3,580	18,800	240	10,140
10	30,400	e82	4,340	23,800	88	4,140	22,300	150	6,880
11	30,700	68	3,620	25,200	143	6,950	19,900	79	3,440
12	31,300	e40	2,150	26,700	e150	7,460	16,800	e130	5,170
13	32,000	44	2,390	27,600	124	6,290	17,800	200	8,200
14	32,500	77	4,230	28,100	110	5,410	20,300	196	8,640
15	32,700	74	4,090	27,400	119	6,000	23,200	161	7,500
16	32,400	66	3,630	27,300	e170	8,560	24,300	118	5,650
17	31,700	e60	3,260	29,200	234	12,100	23,500	91	4,270
18	31,200	56	3,000	31,000	173	9,270	23,800	e112	5,290
19	30,700	58	3,090	31,500	115	6,210	25,100	150	7,290
20	30,400	e58	3,070	28,800	e87	4,460	27,300	e137	6,910
21	30,900	e57	3,050	23,000	75	3,490	28,800	109	5,590
22	30,900	67	3,580	19,000	71	3,020	29,900	105	5,250
23	30,100	89	4,700	17,300	e61	2,480	30,100	115	6,070
24	27,800	72	3,640	16,400	45	1,780	31,000	e121	6,480
25	23,400	79	3,700	15,700	41	1,580	37,500	e120	7,190
26	17,300	105	4,160	14,600	45	1,660	46,300	117	7,970
27	14,800	81	3,020	13,200	43	1,480	46,100	109	7,420
28	13,500	69	2,430	11,800	44	1,380	50,100	108	7,760
29	13,600	71	2,500	-----	-----	-----	54,700	102	7,750
30	13,800	63	2,240	-----	-----	-----	57,000	83	6,460
31	13,500	54	1,890	-----	-----	-----	57,300	59	4,610
TOTAL	870,700	--	126,620	597,600	--	130,480	810,990	--	169,710

e Estimated.

PEARL RIVER BASIN

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02489500 PEARL RIVER NEAR BOGALUSA, LA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	55,800	42	3,220	48,700	124	8,740	10,100	85	2,320
2	54,500	e38	2,880	47,400	e104	7,190	10,700	e74	2,140
3	53,100	50	3,730	45,700	76	5,150	10,400	e63	1,770
4	52,400	68	5,030	43,300	63	4,120	9,470	57	1,460
5	51,000	69	5,010	40,600	e59	3,700	8,540	e53	1,220
6	48,500	e69	4,850	37,500	e61	3,660	8,560	52	1,200
7	49,200	103	7,320	34,600	76	4,330	8,930	e54	1,300
8	48,300	107	7,510	33,000	66	3,650	7,850	56	1,190
9	45,900	94	6,400	32,200	70	3,820	7,160	e57	1,100
10	42,500	92	5,950	32,000	76	4,130	7,100	e53	1,020
11	39,600	90	5,550	31,800	93	5,050	6,430	46	799
12	37,700	80	4,800	33,000	e106	5,870	5,560	e46	691
13	36,100	90	5,250	34,100	e90	5,100	5,390	43	626
14	34,300	90	5,100	33,900	e69	3,880	5,410	e47	687
15	31,300	80	4,290	31,800	e62	3,370	5,850	e56	885
16	27,700	e81	4,090	27,600	e62	3,140	5,850	e55	869
17	29,000	e88	4,540	22,400	e62	2,850	5,960	48	772
18	40,800	111	6,990	19,200	e73	3,120	5,520	e33	492
19	46,300	161	11,000	16,900	114	4,550	5,310	25	358
20	44,000	169	11,200	13,600	150	5,290	4,830	28	365
21	44,400	141	9,370	12,400	137	4,590	4,490	e36	436
22	44,400	133	8,830	8,840	187	4,460	5,520	73	1,088
23	44,600	133	8,870	8,080	e58	1,270	8,880	e79	1,890
24	44,200	136	9,020	7,850	e71	1,500	6,560	55	974
25	45,700	135	9,140	8,430	e88	2,000	5,310	35	502
26	45,900	e119	8,100	11,400	128	3,940	4,450	31	372
27	46,800	107	7,360	13,800	142	5,060	3,940	28	298
28	47,400	100	6,910	12,500	119	3,930	3,710	32	321
29	48,700	e103	7,260	10,100	75	2,050	3,540	31	296
30	49,400	118	8,400	9,500	e64	1,640	3,430	29	269
31	-----	-----	-----	10,100	e74	2,100	-----	-----	-----
TOTAL	1,329,000	--	197,970	772,300	--	123,250	194,800	--	27,710
DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3,420	29	268	3,690	--	--	2,800	14	106
2	3,440	31	288	3,940	--	--	2,770	13	97
3	3,300	e32	285	4,370	--	--	2,790	16	121
4	3,190	28	241	3,810	--	--	2,920	24	189
5	3,190	23	198	3,930	--	--	3,170	32	274
6	3,700	45	450	4,310	--	--	3,740	30	303
7	4,410	58	691	4,630	--	--	4,150	28	314
8	5,410	52	760	4,680	--	--	3,980	32	344
9	5,300	44	630	4,630	--	--	3,980	29	312
10	4,500	32	389	4,470	--	--	3,920	34	360
11	3,810	23	237	3,940	--	--	4,070	39	429
12	3,440	24	223	3,630	--	--	3,930	30	318
13	3,230	27	235	3,430	--	--	4,190	40	453
14	3,100	e18	151	3,140	--	--	5,770	67	1,040
15	3,050	22	181	3,160	--	--	6,220	62	1,040
16	3,030	31	254	3,270	--	--	5,670	52	796
17	2,930	25	198	3,650	--	--	4,470	41	495
18	2,870	31	240	3,720	--	--	3,820	31	320
19	2,820	e27	206	4,180	--	--	3,460	26	243
20	2,770	23	172	4,530	--	--	3,250	23	202
21	2,810	30	228	4,310	--	--	3,110	21	176
22	3,110	e47	395	3,760	--	--	3,020	20	163
23	3,390	35	320	3,420	--	--	2,960	20	160
24	3,460	e25	234	3,240	--	--	2,930	20	158
25	3,460	26	243	3,340	--	--	2,880	20	156
26	3,540	e33	315	3,480	--	--	2,820	16	122
27	3,630	e29	284	3,320	--	--	2,700	10	73
28	3,820	32	330	3,170	--	--	2,620	e10	71
29	4,200	e55	624	3,120	45	379	2,590	14	98
30	4,100	37	410	3,090	e28	234	2,850	20	154
31	3,800	28	287	2,940	13	103	-----	-----	-----
TOTAL	110,230	--	9,967	116,300	--	--	107,550	--	9,087

e Estimated.

RED RIVER BASIN

07344400 RED RIVER NEAR HOSSTON, LA.

LOCATION.--Lat 32°53'35", long 93°49'20", in SW¼ sec.16, T.22 N., R.14 W., Caddo-Bossier Parish line, at gaging station at bridge on State Highway 2, 1.8 miles downstream from Dry Prong Bayou, and 3.2 miles east of Hosston.

DRAINAGE AREA.--57,041 sq mi, of which 5,936 sq mi above Denison Dam is noncontributing.

PERIOD OF RECORD.--Chemical analyses: March 1957 to September 1973.
Water temperatures: March 1957 to September 1973.

EXTREMES.--1971-72:

Specific conductance: Maximum daily, 1,560 micromhos Oct. 21; minimum daily, not determined.
Water temperatures: Maximum, 28.5°C Aug. 17-22, 24-26; minimum, 2°C Jan. 10-12.

Period of record:

Specific conductance: Maximum daily, 1,950 micromhos Aug. 15, 1964; minimum daily, 152 micromhos May 15, 1961, Dec. 26, 1971.
Water temperatures: Maximum, 34°C July 12, 13, 21, 1969; minimum, 1°C Jan. 11, 1962, Jan. 28, 1963, Dec. 24, 1964, Jan. 7, 8, 14, 1968.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED SILICA (SiO ₂) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE- SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO- TASIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	DIS-SOLVED SULFATE (SO ₄) (MG/L)	DIS-SOLVED CHLO- RIDE (CL) (MG/L)	DIS-SOLVED FLUO- RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)
OCT.											
18...	6.2	--	69	19	66	4.2	268	50	88	.3	.02
NOV.											
14...	--	180	--	--	--	--	68	15	17	--	.10
20...	5.1	110	21	6.0	10	3.7	56	14	12	.0	.10
28...	--	70	--	--	--	--	54	14	15	--	.10
DEC.											
06...	9.5	30	39	6.8	43	6.0	160	28	32	.2	.36
12...	--	100	--	--	--	--	62	24	33	--	.27
21...	--	170	--	--	--	--	64	48	78	--	.23
28...	--	60	--	--	--	--	81	62	100	--	.11
JAN.											
03...	8.0	90	20	7.5	34	4.4	66	31	51	.2	.34
11...	--	170	--	--	--	--	70	36	50	--	.61
17...	--	40	--	--	--	--	68	48	73	--	.07
24...	--	20	--	--	--	--	78	40	60	--	.05
30...	--	90	--	--	--	--	58	17	12	--	.07
FEB.											
07...	7.7	70	22	3.8	25	2.6	64	24	36	.2	.09
15...	--	50	--	--	--	--	64	27	36	--	.09
20...	--	40	--	--	--	--	85	53	89	--	.05
28...	--	80	--	--	--	--	104	75	130	--	.02
MAR.											
06...	13	90	32	8.3	44	3.0	88	44	66	.2	.10
14...	--	80	--	--	--	--	87	30	46	--	.18
20...	--	80	--	--	--	--	46	29	42	--	.06
29...	--	450	--	--	--	--	73	32	49	--	.09
APR.											
04...	9.0	110	24	8.3	30	2.9	72	34	48	.2	.09
11...	--	80	--	--	--	--	77	43	80	--	.06
18...	--	90	--	--	--	--	84	43	74	--	.09
24...	--	120	--	--	--	--	71	21	31	--	.11
MAY											
03...	5.8	--	38	7.1	44	2.6	94	45	74	.2	.09
09...	--	60	--	--	--	--	80	35	14	--	.14
16...	--	70	--	--	--	--	70	18	28	--	.11
23...	--	40	--	--	--	--	88	38	66	--	.09
29...	--	30	--	--	--	--	104	45	72	--	.10
JUNE											
06...	--	20	--	--	--	--	110	36	57	--	.10
14...	5.4	20	42	7.8	64	1.7	96	54	100	.2	.10
20...	--	60	--	--	--	--	91	44	78	--	.18
27...	--	50	--	--	--	--	85	59	46	--	.20
JULY											
03...	7.5	0	47	12	84	3.5	117	71	130	.2	.70
10...	--	0	--	--	--	--	176	82	140	--	.02
17...	--	0	--	--	--	--	167	65	120	--	.02
26...	--	20	--	--	--	--	148	56	96	--	.05
AUG.											
01...	--	30	--	--	--	--	202	84	150	--	.05
08...	--	10	--	--	--	--	228	100	180	--	.05
16...	5.4	40	61	15	110	3.7	149	93	170	.2	.00
23...	--	0	61	15	--	--	169	80	150	--	.02
30...	--	0	61	15	--	--	154	86	150	--	.03
SEP.											
04...	--	10	67	17	--	--	167	96	170	--	.04
12...	6.6	20	26	5.3	21	2.6	105	21	27	.2	.29
18...	--	20	26	4.6	--	--	96	19	24	--	.05
26...	--	0	--	--	--	--	140	51	80	--	.05

RED RIVER BASIN

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07344400 RED RIVER NEAR HOSSTON, LA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DATE	DIS- SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	SUS- PENDED SOLIDS (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (MG/L)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)
OCT.											
18...	448	435	36	250	32	763	25.0	20	--	7.9	9.9
NOV.											
14...	94	--	1850	76	20	194	12.5	100	90	7.3	10.0
20...	132	95	304	55	0	158	7.5	50	100	7.7	10.1
28...	106	--	236	58	14	168	8.0	50	95	7.1	10.9
DEC.											
06...	252	236	334	100	0	393	7.5	40	43	7.4	12.0
12...	238	--	50	46	0	257	7.0	30	41	7.2	12.3
21...	284	--	202	100	47	461	6.5	30	42	7.4	12.6
28...	282	--	684	130	64	585	--	35	90	7.1	--
JAN.											
03...	208	191	82	81	27	336	9.0	50	42	6.8	11.0
11...	198	--	146	92	35	355	2.5	50	56	6.7	11.9
17...	368	--	364	100	44	443	7.0	40	59	7.0	12.0
24...	244	--	254	51	0	403	8.0	70	84	7.1	--
30...	114	--	184	55	7	158	6.0	90	72	6.9	10.9
FEB.											
07...	200	154	330	71	18	271	12.0	60	71	7.1	10.1
15...	194	--	270	52	0	281	7.5	30	71	6.8	9.5
20...	334	--	126	140	64	534	9.0	40	81	7.2	11.0
28...	440	--	120	160	75	729	11.0	40	55	7.0	9.8
MAR.											
06...	264	254	376	110	42	434	14.0	40	155	7.0	9.2
14...	220	--	529	90	19	341	14.0	50	--	6.9	8.6
20...	191	--	332	87	49	318	14.5	60	92	7.0	8.6
29...	232	--	381	94	34	347	15.0	45	91	6.8	8.5
APR.											
04...	213	192	202	94	35	336	15.0	50	65	6.5	8.4
11...	303	--	187	110	47	480	15.0	40	35	7.0	8.8
18...	288	--	300	110	40	461	16.5	50	43	7.1	8.4
24...	157	--	526	89	31	258	20.0	40	110	7.1	7.8
MAY											
03...	302	263	291	120	47	492	20.0	--	97	7.0	8.7
09...	276	--	363	110	42	452	21.5	--	100	6.6	7.5
16...	135	--	282	72	15	254	21.0	30	120	6.8	7.6
23...	267	--	196	110	35	443	24.0	30	110	6.8	8.7
29...	303	--	267	130	45	506	23.0	30	84	6.8	6.8
JUNE											
06...	243	--	362	120	28	431	24.5	40	56	7.3	6.9
14...	345	323	592	140	58	635	--	50	52	7.3	--
20...	292	--	218	110	37	501	26.5	40	100	7.2	6.9
27...	199	--	345	95	25	354	31.0	10	93	7.4	6.2
JULY											
03...	461	416	300	160	69	736	29.5	10	91	7.9	6.5
10...	549	--	82	220	30	907	29.5	20	120	7.6	6.5
17...	453	--	67	200	62	778	30.0	15	35	7.6	7.4
26...	382	--	24	170	46	641	30.5	20	38	7.3	7.0
AUG.											
01...	505	--	396	250	82	966	31.5	15	42	7.4	6.9
08...	647	--	8	290	104	1120	30.0	10	42	8.3	7.4
16...	538	532	37	210	92	1020	29.0	20	29	7.3	6.7
23...	530	--	45	220	80	937	28.5	20	18	7.6	7.0
30...	540	--	50	210	88	910	27.0	20	28	7.5	7.1
SEP.											
04...	581	--	14	240	100	1050	28.5	10	--	7.4	7.3
12...	195	163	550	87	1	318	26.5	200	230	7.5	6.4
18...	174	--	142	84	5	274	25.5	80	27	7.3	7.3
26...	340	--	52	160	45	587	28.0	30	36	8.1	6.4

RED RIVER BASIN

07344400 RED RIVER NEAR HOSSTON, LA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DATE	BIO-CHEMICAL OXYGEN DEMAND (MG/L)	DISEASE-VEGETATION PHOSPHORUS (P) (MG/L)	IMMEDIATE DIATOM COLIFORM FORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	DISEASE-SOLVED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	DISEASE-SOLVED GROSS NATURAL URANIUM (U) (UG/L)	DISEASE-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISEASE-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)
OCT.										
14...	7.7	--	7400	400	--	--	--	--	--	--
NOV.										
14...	2.4	.039	770	500	--	--	--	--	--	--
20...	2.8	.042	--	150	--	--	--	--	--	--
24...	2.9	.098	12000	1000	--	--	--	--	--	--
DEC.										
06...	4.9	.003	5500	480	--	--	--	--	--	--
12...	3.4	.015	25000	900	--	--	--	--	--	--
21...	--	.016	1400	200	--	--	--	--	--	--
28...	--	.015	500	--	--	--	--	--	--	--
JAN.										
03...	5.1	.042	2500	400	--	--	--	--	--	--
11...	2.1	.42	4000	220	--	--	--	--	--	--
17...	3.1	.052	3500	720	--	--	--	--	--	--
24...	--	.046	--	--	--	--	--	--	--	--
30...	4.1	.052	5000	120	--	--	--	--	--	--
FEB.										
07...	4.7	.000	3200	300	--	--	--	--	--	--
15...	2.5	.038	4500	440	--	--	--	--	--	--
20...	4.1	.088	2100	90	--	--	--	--	--	--
28...	2.3	.37	1500	75	--	--	--	--	--	--
MAR.										
06...	3.7	.026	8400	850	--	--	--	--	--	--
14...	2.7	.072	25000	550	--	--	--	--	--	--
20...	6.4	.37	3800	120	--	--	--	--	--	--
29...	2.0	.15	11000	330	--	--	--	--	--	--
APR.										
04...	4.0	.25	11000	300	--	--	--	--	--	--
11...	1.0	.023	9500	450	6.1	13	.6	5.9	10	4.9
18...	2.0	.009	100000	14000	--	--	--	--	--	--
24...	2.4	.023	2000	730	--	--	--	--	--	--
MAY										
03...	4.5	.020	1100	200	--	--	--	--	--	--
09...	1.5	.018	--	5000	--	--	--	--	--	--
16...	2.5	.010	3400	500	--	--	--	--	--	--
23...	3.5	.018	35000	--	--	--	--	--	--	--
29...	3.5	.003	11000	270	--	--	--	--	--	--
JUNE										
05...	--	.010	8500	700	--	--	--	--	--	--
14...	--	.024	--	--	--	--	--	--	--	--
20...	1.4	.007	--	120	--	--	--	--	--	--
27...	--	.013	3200	1200	--	--	--	--	--	--
JULY										
03...	2.2	.005	1200	--	--	--	--	--	--	--
10...	7.5	.003	900	40	--	--	--	--	--	--
17...	1.7	.015	--	--	--	--	--	--	--	--
26...	2.1	.033	500	60	--	--	--	--	--	--
AUG.										
01...	3.7	.000	780	460	--	--	--	--	--	--
08...	3.0	.016	--	7000	--	--	--	--	--	--
15...	.9	--	--	--	--	--	--	--	--	--
23...	1.7	--	--	--	--	--	--	--	--	--
30...	3.0	--	--	--	--	--	--	--	--	--
SEP.										
04...	4.5	--	1000	380	--	--	--	--	--	--
12...	4.1	--	100000	750	--	--	--	--	--	--
19...	1.5	--	150	50	--	--	--	--	--	--
26...	3.1	.020	250	0	--	--	--	--	--	--

RED RIVER BASIN

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07344400 RED RIVER NEAR HOSSTON, LA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DATE	SUS- PENDE GROSS BETA AS SH90 /Y90 (PC/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	CYANIDE (CN) (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)
OCT.										
18...	--	--	--	--	--	--	--	--	--	--
NOV.										
14...	--	2	0	<10	<.5	<5	30	.00	3.0	48
20...	--	15	1	<10	<.5	<5	20	.00	2.0	8
28...	--	0	2	<10	<.5	<5	30	.00	--	3
DEC.										
06...	--	14	0	<10	<.5	8	30	.00	4.0	2
12...	--	12	3	<10	<.5	5	0	.00	--	5
21...	--	4	1	<10	<.5	10	50	.00	--	2
28...	--	15	0	<10	<.5	10	10	.00	--	2
JAN.										
03...	--	8	0	<10	<.5	0	0	.00	50	0
11...	--	2	0	<10	2.2	10	20	.00	--	0
17...	--	0	0	<10	1.1	0	0	.00	--	5
24...	--	5	0	<10	<.5	0	60	.00	--	5
30...	--	0	0	<10	<.5	0	20	.00	--	2
FEB.										
07...	--	0	0	<10	<.5	0	230	.00	7.0	14
15...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
28...	--	0	0	<10	<.5	<5	0	.00	--	0
MAR.										
06...	--	2	0	<10	<.5	<5	10	.00	2.0	1
14...	--	0	0	<10	<.5	0	10	.00	--	1
20...	--	0	1	<10	<.5	0	0	.00	--	0
29...	--	0	2	<10	<.5	5	20	.00	--	2
APR.										
04...	--	0	0	<10	<.5	4	0	.00	.0	0
11...	10	0	0	<10	.5	0	20	.00	--	0
18...	--	1	0	<10	<.5	0	10	.00	--	1
24...	--	0	0	<10	.5	0	30	.00	--	0
MAY										
03...	--	0	0	<10	<.5	15	40	.00	--	0
09...	--	0	0	<10	<.5	0	0	.00	2.0	0
15...	--	0	0	<10	<.5	0	20	.00	--	0
23...	--	0	0	<10	<.5	0	0	.00	--	0
29...	--	0	0	<10	<.5	0	0	.00	--	3
JUNE										
06...	--	0	0	<10	<.5	0	0	.00	1.0	1
14...	--	0	1	<10	<.5	0	20	.00	--	0
20...	--	0	0	<10	<.5	0	20	.00	--	1
27...	--	0	0	<10	.5	0	0	.00	--	11
JULY										
03...	--	0	0	<10	<.5	0	0	.00	5.0	2
10...	--	0	0	<10	<.5	<5	0	.00	--	0
17...	--	0	0	<10	<.5	0	0	.00	--	0
25...	--	0	0	<10	<.5	0	0	.00	--	0
AUG.										
01...	--	0	1	<10	--	0	10	.00	--	1
08...	--	0	0	<10	<.5	0	0	.00	4.0	1
15...	--	0	0	<10	<.5	0	0	.00	--	1
23...	--	0	0	<10	<.5	0	0	.00	--	1
30...	--	0	0	<10	<.5	0	0	.00	--	0
SEPT.										
04...	--	0	0	<10	<.5	0	10	.00	.0	0
12...	--	0	0	<10	.5	0	10	.00	--	0
19...	--	0	0	<10	<.5	0	0	.00	--	0
25...	--	0	0	<10	<.5	0	20	.00	--	0

RED RIVER BASIN

07344400 RED RIVER NEAR HOSSTON, LA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DATE	ALDRIN (UG/L)	LINDANE (UG/L)	CHLOR- DANE (UG/L)	DDD (UG/L)	DDO (UG/L)	DDT (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR EPOXIDE (UG/L)
NOV.										
14...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
20...	.00	.00	.0	.00	.00	.02	.00	.00	.00	.00
28...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
DEC.										
06...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
12...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
21...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
28...	.00	.01	.0	.00	.00	.00	.01	.00	.00	.00
JAN.										
03...	.00	.00	.0	.00	.00	.02	.01	.00	.00	.00
11...	.00	.00	.0	.00	.00	.00	.01	.00	.00	.00
17...	.00	.00	.0	.00	.00	.01	.00	.00	.00	.00
24...	.00	.00	.0	.00	.01	.00	.01	.00	.00	.00
30...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
FEB.										
07...	.00	.00	.0	.00	.00	.02	.00	.00	.00	.00
15...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
28...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
MAR.										
06...	.00	.00	.0	.00	.00	.01	.00	.00	.00	.00
14...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
20...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
29...	.00	.00	.0	.00	.01	.01	.00	.00	.00	.00
APR.										
04...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
11...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
18...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
24...	.00	.00	.0	.00	.00	.02	.00	.00	.00	.00
MAY										
03...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
09...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
16...	.00	.00	.0	.00	.00	.01	.00	.00	.00	.00
23...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
29...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
JUNE										
06...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
14...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
20...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
27...	.00	.00	.0	.00	.01	.00	.01	.00	.00	.00
JULY										
03...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
10...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
17...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
26...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
AUG.										
01...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
08...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
16...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
23...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
30...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
SEP.										
04...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
12...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
18...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
26...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00

RED RIVER BASIN

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07344400 RED RIVER NEAR HOSSTON, LA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DATE	PCH (UG/L)	MALA- THION (UG/L)	PARA- THION (UG/L)	METHYL PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	ALDRIN IN BOTTOM DE- POSITS (UG/KG)	LINDANE IN BOTTOM DE- POSITS (UG/KG)
NOV.									
14...	--	.00	.00	.00	.02	.01	.00	--	--
20...	--	.00	.00	.00	.00	.00	.00	<.2	<.2
28...	--	.00	.00	.00	.00	.00	.00	--	--
DEC.									
06...	--	.00	.00	.00	.00	.01	.00	<.2	<.2
12...	--	.00	.00	.00	.00	.00	.00	--	--
21...	--	.00	.00	.00	.00	.00	.00	--	--
28...	--	.00	.00	.00	.00	.00	.00	--	--
JAN.									
03...	--	.00	.00	.00	.03	.01	.00	<.2	<.2
11...	--	.00	.00	.00	.02	.00	.00	--	--
17...	--	.00	.00	.00	.00	.00	.00	--	--
24...	--	.00	.00	.00	.00	.00	.00	--	--
30...	--	.00	.00	.00	.00	.00	.00	--	--
FEB.									
07...	.0	.00	.00	.00	.04	.00	.00	--	--
15...	.0	.00	.00	.00	.03	.01	.00	--	--
28...	.0	.00	.00	.00	.00	.00	.00	.0	.0
MAR.									
05...	.0	.00	.00	.00	.02	.00	.00	--	--
14...	.0	.00	.00	.00	.02	.00	.00	--	--
20...	.0	.00	.00	.00	.00	.01	.00	--	--
29...	.0	.00	.00	.00	.05	.00	.00	--	--
APR.									
04...	--	.00	.00	.00	.04	.00	.00	--	--
11...	.0	.00	.00	.00	.03	.00	.00	--	--
18...	.0	.00	.00	.00	.12	.04	.00	--	--
24...	.0	.00	.00	.00	.05	.01	.00	--	--
MAY									
03...	.0	.00	.00	.00	.03	.01	.00	--	--
09...	.0	.00	.00	.00	.03	.01	.00	--	--
16...	.0	.00	.00	.00	.05	.00	.00	--	--
23...	.0	.00	.00	.00	.03	.00	.00	--	--
29...	.0	.00	.00	.00	.03	.00	.00	--	--
JUNE									
06...	.0	.00	.00	.00	.07	.05	.00	--	--
14...	.0	.00	.00	.00	.04	.06	.00	--	--
20...	.0	.00	.00	.00	.04	.08	.00	--	--
27...	.0	.00	.00	.00	.06	.04	.00	--	--
JULY									
03...	.0	.00	.00	.00	.06	.03	.00	--	--
10...	.0	.00	.00	.00	.02	.03	.00	.0	.0
17...	.0	.00	.00	.00	.02	.03	.00	--	--
26...	.0	.00	.00	.02	.04	.22	.00	--	--
AUG.									
01...	.0	.00	.00	.00	.00	.19	.00	--	--
08...	.0	.00	.00	.03	.00	.09	.00	.0	.0
16...	.0	.00	.00	.04	.00	.02	.00	--	--
23...	.0	.00	.00	.00	.03	.06	.00	--	--
30...	.0	.00	.00	.00	.00	.01	.00	--	--
SEP.									
04...	.0	.00	.00	.00	.00	.02	.00	.0	.0
12...	.0	.00	.00	.00	.03	.04	.00	--	--
18...	.0	.00	.00	.00	.00	.02	.00	--	--
26...	.0	.00	.00	.00	.02	.00	.00	--	--

RED RIVER BASIN

07344400 RED RIVER NEAR HOSSTON, LA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DATE	CHLOR- DANE IN BOTTOM DE- POSITS (UG/KG)	DDU IN BOTTOM DE- POSITS (UG/KG)	DDE IN BOTTOM DE- POSITS (UG/KG)	DDT IN BOTTOM DE- POSITS (UG/KG)	DI- ELDRIN IN BOTTOM DE- POSITS (UG/KG)	ENDRIN IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSITS (UG/KG)	PCB IN BOTTOM DE- POSITS (UG/KG)
NOV.									
14...	--	--	--	--	--	--	--	--	--
20...	<1.0	1.0	2.7	6.0	<.2	<.2	<.2	<.2	--
28...	--	--	--	--	--	--	--	--	--
DEC.									
06...	<1.0	1.0	4.2	7.8	<.2	<.2	<.2	<.2	--
12...	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--
JAN.									
03...	<1.0	<.2	.4	<.2	<.2	<.2	<.2	<.2	--
11...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--
FEB.									
07...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
28...	.0	.0	.7	.0	.0	.0	.0	.0	.0
MAR.									
06...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--
APR.									
04...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
MAY									
03...	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--
JUNE									
06...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--
JULY									
03...	--	--	--	--	--	--	--	--	--
10...	.0	.0	1.5	.0	.0	.0	.0	.0	.0
17...	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--
AUG.									
01...	--	--	--	--	--	--	--	--	--
08...	.0	.0	.0	.0	.0	.0	.0	.0	.0
16...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
SEP.									
04...	0	.0	.0	.0	.0	.0	.0	.0	0

07344400 RED RIVER NEAR HOSSTON, LA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	--	322	345	407	303	635	334	377	472	716	1,030	880
2	--	292	347	407	260	609	359	462	451	771	1,000	874
3	--	431	243	377	200	571	365	512	418	770	1,060	956
4	--	268	279	383	205	454	367	571	463	849	1,090	--
5	---	259	243	258	289	377	415	590	421	847	1,080	--
6	--	245	423	249	435	442	441	583	496	852	1,060	--
7	--	215	239	249	343	344	430	533	413	927	1,140	--
8	--	215	253	304	335	305	450	510	392	943	1,150	--
9	--	204	244	380	333	268	483	466	394	896	1,110	--
10	617	198	243	301	318	239	e480	495	414	887	856	--
11	648	216	252	344	472	307	e480	450	441	854	862	--
12	677	211	241	319	399	376	e540	377	572	1,040	701	--
13	809	208	244	349	298	362	613	291	614	916	952	--
14	1,060	203	249	332	309	420	604	278	666	785	1,010	--
15	1,050	206	324	327	327	354	650	289	686	752	973	--
16	1,050	166	308	470	418	305	556	286	600	720	983	--
17	1,080	164	286	468	445	325	540	277	537	763	1,010	--
18	1,070	165	314	693	494	327	509	279	491	768	1,130	--
19	1,060	e160	380	686	505	332	497	338	545	729	1,100	--
20	1,310	e160	335	604	560	368	369	383	545	782	1,010	--
21	1,570	e210	466	602	605	387	331	361	478	758	1,080	--
22	1,370	260	631	631	654	409	290	260	463	639	970	--
23	1,270	275	597	460	752	412	288	295	497	615	915	--
24	1,230	260	607	312	771	423	270	445	641	633	930	--
25	1,280	265	641	237	657	453	318	326	377	638	918	--
26	1,430	e230	594	194	727	524	423	366	367	677	868	--
27	1,380	e200	582	208	722	583	441	362	411	790	864	--
28	1,330	e170	582	209	765	487	464	403	474	831	903	--
29	1,030	e260	440	177	---	396	458	462	575	863	862	--
30	1,010	350	436	176	---	344	366	464	---	967	845	--
31	--	---	415	196	---	336	---	450	---	1,020	896	--
AVG.	--	233	375	365	461	402	438	405	--	806	979	--
e Estimated												

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	--	16.0	6.5	6.0	6.5	5.5	15.0	19.5	23.0	21.0	26.5	26.5
2	--	16.0	6.5	6.5	6.5	6.0	15.0	19.5	23.0	21.0	26.5	26.5
3	--	15.5	6.5	6.5	6.5	6.5	14.5	19.5	23.5	21.0	27.0	26.5
4	--	15.5	6.5	--	7.0	6.5	14.5	19.5	23.5	21.5	27.0	--
5	--	15.5	6.5	6.0	7.0	5.5	14.5	19.5	23.0	21.5	27.0	--
6	--	15.5	6.0	5.0	7.0	5.5	14.5	20.0	21.5	22.0	27.0	--
7	--	15.5	5.5	4.0	7.0	5.5	14.5	20.0	20.0	22.0	27.0	--
8	--	--	5.0	3.5	7.0	5.5	14.5	20.0	19.5	23.0	27.0	--
9	--	--	5.0	3.0	6.5	5.5	14.0	20.0	19.0	23.0	27.0	--
10	24.5	15.0	--	2.0	5.5	6.0	14.0	20.0	18.5	23.0	28.0	--
11	24.5	15.5	5.0	2.0	4.5	14.5	14.0	20.5	18.0	23.5	28.0	--
12	24.5	15.5	5.0	2.0	4.5	16.0	14.0	20.5	17.0	23.5	28.0	--
13	24.5	--	5.0	3.5	4.5	16.0	14.5	20.5	17.0	23.5	28.0	--
14	24.5	--	5.0	3.5	4.5	16.5	14.5	20.5	17.0	24.0	28.0	--
15	24.5	14.5	4.5	4.5	4.5	16.5	15.0	20.5	17.0	24.0	28.0	--
16	24.0	13.0	4.0	4.5	4.5	16.0	15.5	20.5	18.0	23.0	27.0	--
17	24.0	10.5	4.0	4.5	4.5	16.0	16.0	21.0	18.0	22.0	28.5	--
18	24.0	9.0	4.0	4.5	4.5	15.5	16.0	21.0	18.0	22.0	28.5	--
19	19.0	8.5	4.5	4.5	5.0	15.5	16.0	21.0	17.0	22.0	28.5	--
20	18.5	8.5	4.5	4.5	5.0	15.5	16.5	21.0	19.0	23.5	28.5	--
21	19.5	8.0	4.5	4.0	5.0	16.0	16.5	21.0	20.0	23.5	28.5	--
22	19.0	7.0	4.5	4.0	5.0	15.5	16.5	21.5	20.0	23.5	28.5	--
23	19.0	7.0	4.0	4.0	5.0	15.5	17.0	21.5	20.0	23.5	28.0	--
24	18.5	6.5	5.5	3.5	5.5	15.5	18.5	21.5	20.0	24.0	28.5	--
25	17.0	6.5	6.0	3.5	5.0	15.0	18.5	21.5	20.0	25.5	28.5	--
26	17.0	6.5	6.0	3.5	5.5	15.0	18.5	22.0	20.5	25.5	28.5	--
27	15.5	6.5	5.5	4.0	5.5	15.0	18.5	22.0	20.5	26.0	28.0	--
28	15.5	6.5	5.5	5.5	5.5	15.0	19.0	22.0	20.5	26.5	28.0	--
29	16.0	6.5	5.5	6.0	---	15.5	19.0	--	20.5	26.5	28.0	--
30	16.5	6.5	5.5	6.0	---	15.5	19.0	--	20.5	26.5	26.5	--
31	--	---	6.0	6.5	---	15.5	---	--	---	26.5	26.0	--
AVG.	--	--	--	--	5.5	12.5	15.9	--	19.8	23.5	27.6	--

RED RIVER BASIN

07349000 BAYOU DORCHEAT NEAR MINDEN, LA.

LOCATION.--Lat 32°35'55", long 93°20'00", in NW¼ sec.31, T.19 N., R.9 W., Webster Parish, on left bank 500 ft upstream from bridge on U.S. Highway 80, 0.8 mile upstream from Louisiana & Arkansas Railway Co. bridge, 3.0 miles west of Minden, and 28 miles upstream from Bistineau Dam.

DRAINAGE AREA.--1,097 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (Ca) (MG/L)	DIS- SOLVED MAG- NE- SIUM (Mg) (MG/L)	DIS- SOLVED SODIUM (Na) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (Cl) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)
OCT. 18...	11	13	4.3	50	3.2	47	4.6	83	.1	.02
NOV. 27...	10	7.9	3.2	24	2.7	8	7.4	46	.0	.10
DEC. 12...	20	7.4	4.0	27	3.7	13	3.0	54	.1	.07
JAN. 10...	14	6.8	1.7	20	2.4	8	8.2	37	.1	.02
FEB. 14...	9.0	4.4	2.4	13	2.0	12	6.0	23	.3	.10
MAR. 20...	11	6.8	1.2	12	2.3	11	4.2	26	.0	.16
MAY 23...	13	8.8	2.7	24	2.2	17	4.6	48	.2	.20

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF TUNENTS) (MG/L)	SUS- PENDED SOLIDS (MG/L)	HARD- NESS (Ca+Mg) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (MG/L)
OCT. 18...	203	192	2	50	11	363	24.0	10	--
NOV. 27...	183	105	0	33	27	218	13.0	50	33
DEC. 12...	164	126	33	36	25	223	6.5	--	--
JAN. 10...	122	94	19	24	17	166	3.0	--	25
FEB. 14...	--	67	12	21	11	91	8.5	90	--
MAR. 20...	103	69	14	22	13	116	15.5	140	--
MAY 23...	167	113	--	33	14	205	24.5	40	--

DATE	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	PHOS- PHATE (PO ₄) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)
OCT. 18...	6.5	7.7	1.4	19	--	.003	80	24	12
NOV. 27...	6.1	7.6	1.7	--	--	--	500	320	280
DEC. 12...	6.2	11.0	2.4	--	.08	--	4000	510	68
JAN. 10...	6.2	11.0	2.0	46	.05	--	2200	460	650
FEB. 14...	6.4	9.7	2.0	37	.04	--	90	85	30
MAR. 20...	5.9	6.4	1.9	18	.07	--	5500	340	40
MAY 23...	6.1	5.3	.2	--	--	--	1500	3200	120

RED RIVER BASIN

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07350500 RED RIVER AT COUSHATTA, LA.

LOCATION.--Lat 32°00'45", long 93°21'10", Red River Parish, at bridge on U.S. Highway 84 at Coushatta and 11 miles downstream from Coushatta Bayou.

DRAINAGE AREA.--63,362 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED SILICA (SI02) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
NOV. 15...	5.6	40	20	2.4	14	4.6	64	15	20	.2	.10	116
DEC. 12...	5.0	60	22	5.6	24	3.2	70	15	42	.2	.10	161
FEB. 15...	6.7	70	21	3.5	22	3.3	62	23	33	.2	.20	186
MAR. 19...	9.4	30	22	4.9	23	2.6	70	21	35	.1	.06	159
APR. 05...	8.8	30	22	7.3	26	3.0	72	25	42	.2	.07	180
MAY 22...	7.1	40	27	5.5	31	4.3	80	28	47	.2	.10	230
JULY 25...	4.0	10	46	11	60	3.7	135	52	92	.1	.04	319
AUG. 29...	3.0	--	58	18	95	5.0	168	80	150	.3	.02	507
SEP. 11...	7.3	0	41	12	63	4.8	111	56	100	.2	.50	367

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	SUSPENDED SOLIDS (MG/L)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (MG/L)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)
NOV. 15...	114	1600	60	8	200	12.0	120	--	7.5	9.1	--	42
DEC. 12...	152	438	78	21	272	6.5	--	--	7.1	11.6	3.8	--
FEB. 15...	145	494	67	16	253	9.0	240	--	7.1	10.4	5.5	116
MAR. 19...	152	465	75	18	258	16.0	40	--	6.7	8.2	1.6	25
APR. 05...	170	516	85	26	288	14.5	60	--	6.6	8.2	3.5	25
MAY 22...	190	--	90	24	336	24.0	40	--	7.1	8.7	2.5	--
JULY 25...	335	--	150	49	620	30.0	15	34	8.0	7.4	2.2	--
AUG. 29...	492	--	220	79	878	28.5	15	--	7.7	7.9	3.4	--
SEP. 11...	341	--	150	61	635	28.0	15	34	7.8	6.4	4.4	--

RED RIVER BASIN

07350500 RED RIVER AT COUSHATTA, LA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1973--Continued

DATE	PHOS- PHATE (PO ₄) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FFCAL COLI- FORM (COL. PER 100 ML)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
NOV. 15...	.05	--	--	710	--	--	--	--	--	--	--
DEC. 12...	.25	--	45000	2200	38000	--	--	--	--	--	--
FEB. 15...	.31	--	73000	120	2400	--	--	--	--	--	--
MAR. 19...	.24	--	7400	400	110	--	--	--	--	--	--
APR. 05...	--	.30	>80000	200	11000	--	--	--	--	--	--
MAY 22...	--	--	45000	240	8000	--	--	--	--	--	--
JULY 25...	--	--	--	--	--	0	0	<10	<.5	0	0
AUG. 29...	--	--	800	20	200	--	--	--	--	--	--
SEP. 11...	--	--	--	5300	2000	0	1	<10	<.5	0	--

07355130 RED RIVER AT BOYCE, IA.

LOCATION.--Lat 31°23'37", long 92°40'04", T.5 N., R.3 W., Grant-Rapides Parish line, near center of span on downstream side of bridge on State Highway 8, 0.2 mile northwest of Boyce, and at mile 135.0.

DRAINAGE AREA.--66,998 sq mi, of which 5,936 sq mi above Denison Dam is noncontributing.

PERIOD OF RECORD.--Chemical analyses: November 1972 to September 1973.

CHEMICAL ANALYSES, NOVEMBER 1972 TO SEPTEMBER 1973

DATE	DIS- SOLVED SILICA (MG/L)	DIS- SOLVED IRON (MG/L)	DIS- SOLVED CAL- CIUM (MG/L)	DIS- SOLVED MAG- NESIUM (MG/L)	DIS- SOLVED SODIUM (MG/L)	DIS- SOLVED POT- ASSIUM (MG/L)	BICAR- BONATE (MG/L)	DIS- SOLVED SULFATE (MG/L)	DIS- SOLVED CHLO- RIDE (MG/L)	DIS- SOLVED FLUO- RIDE (MG/L)	DIS- SOLVED NITRATE (MG/L)	DIS- SOLVED SOLIDS (RESI- DUCE AT 180 C) (MG/L)
NOV.												
15...	6.1	30	22	4.2	13	4.4	70	15	19	.1	.10	166
21...	--	170	--	--	--	--	66	25	43	--	.10	153
27...	--	70	--	--	--	--	60	24	41	--	.09	224
DEC.												
07...	9.0	90	24	4.9	26	4.1	71	26	40	.2	.32	174
11...	--	150	--	--	--	--	71	22	35	--	.27	174
21...	--	120	--	--	--	--	60	25	37	--	.23	152
28...	--	120	--	--	--	--	59	36	64	--	.11	238
JAN.												
03...	8.3	100	21	5.5	31	4.1	58	40	44	.2	.29	196
11...	--	120	--	--	--	--	54	21	24	--	.36	132
16...	--	70	--	--	--	--	52	24	40	--	.09	176
23...	--	60	--	--	--	--	61	35	59	--	.07	228
29...	--	180	--	--	--	--	60	15	21	--	.09	152
FEB.												
05...	9.5	70	14	4.9	13	2.1	56	15	16	.2	.16	140
15...	--	50	--	--	--	--	70	12	28	--	.09	154
20...	--	--	--	--	--	--	65	31	52	--	.05	232
27...	--	80	--	--	--	--	79	52	91	--	.07	332
MAR.												
05...	13	120	32	7.3	54	3.4	83	46	78	.1	.10	294
14...	--	90	--	--	--	--	75	22	30	--	.11	200
19...	--	40	--	--	--	--	51	43	28	--	.09	199
30...	--	130	--	--	--	--	72	37	67	--	.09	260
APR.												
05...	12	130	22	7.5	23	2.5	66	25	38	.3	.09	177
12...	--	110	--	--	--	--	71	31	53	--	.09	223
17...	--	120	--	--	--	--	73	41	73	--	.06	273
25...	--	130	--	--	--	--	74	19	28	--	.09	156
MAY												
03...	6.1	--	30	7.3	25	2.3	82	43	37	.2	.09	193
10...	--	--	--	--	--	--	81	33	12	--	.14	246
17...	--	50	--	--	--	--	75	17	27	--	.11	140
22...	--	70	--	--	--	--	76	21	32	--	.11	163
29...	--	60	--	--	--	--	94	41	66	--	.10	300
JUNE												
06...	--	40	--	--	--	--	110	21	60	--	.09	258
14...	5.5	20	34	5.1	40	2.2	94	39	64	.2	.20	248
21...	--	20	--	--	--	--	86	36	58	--	.18	244
27...	--	0	--	--	--	--	103	45	74	--	.20	300
JULY												
02...	7.3	10	33	7.7	42	2.6	100	36	60	.2	.50	263
10...	--	10	--	--	--	--	124	52	97	--	.05	372
17...	--	0	--	--	--	--	158	56	100	--	.02	406
25...	--	0	--	--	--	--	140	54	94	--	.05	373
AUG.												
01...	--	30	--	--	--	--	158	48	84	--	.05	355
08...	--	0	--	--	--	--	181	62	110	--	.07	448
15...	2.9	0	70	18	94	3.6	220	74	140	.2	.00	520
23...	--	0	61	17	--	--	172	85	160	--	.00	609
29...	--	0	61	15	--	--	175	78	150	--	.01	537
SEP.												
04...	--	20	54	15	--	--	166	74	130	--	.01	487
11...	6.3	10	44	12	67	3.4	126	56	110	.2	.00	392
14...	--	20	23	5.2	--	--	85	18	28	--	.01	167
27...	--	0	--	--	--	--	100	31	46	--	.20	223

RED RIVER BASIN

07355130 RED RIVER AT BOYCE, IA.--Continued

CHEMICAL ANALYSES, NOVEMBER 1972 TO SEPTEMBER 1973--Continued

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	SUS- PENDED SOLIDS (MG/L)	HARD- NESS (CA+MG)	NOV- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (MG/L)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)
NOV.												
15...	116	896	72	14	205	12.0	100	48	7.5	8.6	1.6	.052
21...	--	730	82	28	300	9.5	50	80	7.5	9.9	1.9	.046
27...	--	636	74	25	282	9.0	30	85	7.5	11.0	2.7	.042
DEC.												
07...	171	238	80	22	289	9.0	65	70	6.6	11.0	6.7	.006
11...	--	528	74	16	262	8.0	70	80	6.7	11.6	3.2	.065
21...	--	792	68	19	259	8.0	80	80	6.8	12.0	--	.033
28...	--	424	85	37	390	9.5	60	65	6.9	--	--	.020
JAN.												
03...	134	166	75	27	300	10.0	60	42	6.8	11.0	6.8	.062
11...	--	406	56	12	198	3.5	70	36	6.6	10.6	2.0	.068
16...	--	166	66	23	269	6.5	80	69	6.8	11.0	4.3	.049
23...	--	174	83	33	371	11.0	80	69	7.0	11.0	3.7	.075
29...	--	312	60	11	190	8.0	90	100	7.1	10.5	6.9	.062
FEB.												
06...	104	334	55	9	177	11.5	50	56	6.8	9.8	3.9	.070
15...	--	870	80	22	256	8.5	40	84	6.8	10.2	3.9	.013
20...	--	180	82	29	335	8.5	20	90	7.3	11.1	3.0	.002
27...	--	292	120	55	512	11.5	30	72	7.1	10.1	2.5	.11
MAR.												
05...	275	156	110	42	474	15.0	35	95	6.9	9.3	4.2	.026
14...	--	444	85	23	267	14.5	40	96	6.7	8.5	2.6	.034
19...	--	643	88	46	271	16.5	80	180	6.5	7.7	1.8	.12
30...	--	342	100	42	414	15.0	55	87	6.8	8.0	1.6	.028
APR.												
05...	154	311	86	32	274	16.5	70	89	6.2	7.7	2.4	.049
12...	--	218	90	32	362	16.0	50	65	6.9	8.9	6.0	.023
17...	--	262	100	42	443	16.5	40	75	6.9	8.7	2.3	.009
25...	--	182	78	--	252	21.0	30	97	6.8	7.0	4.2	--
MAY												
03...	191	353	110	38	304	21.0	--	93	7.0	7.8	5.0	.063
10...	--	415	100	37	413	22.5	--	157	6.5	6.7	1.9	.024
17...	--	310	75	13	252	21.0	25	125	6.7	1.3	2.1	.054
22...	--	367	78	16	269	24.0	40	110	6.9	7.4	1.4	.047
24...	--	273	120	42	450	24.0	50	87	6.7	5.4	2.2	.37
JUNE												
06...	--	186	120	28	440	25.0	45	75	6.9	6.6	1.8	.066
14...	241	453	120	39	433	--	40	60	7.0	--	--	.014
21...	--	296	100	31	406	27.0	50	85	6.9	6.6	1.6	.034
27...	--	508	120	40	507	30.0	15	73	7.1	6.2	--	.003
JULY												
02...	240	265	110	32	421	30.5	10	79	7.7	6.2	2.5	.020
10...	--	161	150	53	636	29.5	25	68	7.5	6.3	1.3	.000
17...	--	81	180	52	697	30.5	25	67	7.7	7.0	.6	.011
25...	--	42	150	44	617	31.0	25	38	7.2	7.4	1.8	.049
AUG.												
01...	--	21	170	37	614	31.0	10	11	7.3	7.4	5.1	.000
09...	--	--	210	60	766	28.5	15	40	8.2	7.5	2.4	.007
15...	511	24	250	68	970	30.5	10	13	7.4	6.5	1.5	--
23...	--	24	220	81	969	29.5	5	18	7.5	8.0	2.8	--
29...	--	41	220	72	909	28.0	20	24	7.7	7.2	3.8	--
SEP.												
04...	--	17	210	70	856	28.0	10	17	7.2	7.0	3.9	--
11...	351	88	150	56	683	28.0	20	30	7.2	7.4	2.9	--
19...	--	206	79	9	267	25.0	100	99	7.4	6.5	1.4	--
27...	--	198	110	28	367	26.5	50	55	7.7	6.5	1.4	.030

RED RIVER BASIN

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07355130 RED RIVER AT BOYCE, LA.--Continued

CHEMICAL ANALYSES, NOVEMBER 1972 TO SEPTEMBER 1973--Continued

DATE	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	CYANIDE (CN) (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (JG/L)
NOV.											
15...	29000	3700	0	0	<10	<.5	<5	140	.00	3.0	3
21...	46000	1100	5	2	<10	<.5	<5	40	.00	--	5
27...	19000	810	15	1	<10	<.5	<5	40	.00	--	3
DEC.											
07...	12000	1200	15	1	<10	<.5	5	20	.00	5.0	1
11...	--	--	4	2	<10	<.5	14	10	.00	--	5
21...	25000	2100	5	10	<10	<.5	7	10	.00	4.0	5
28...	39000	1600	16	0	<10	<.5	10	10	.00	--	5
JAN.											
03...	10000	1000	9	2	<10	<.5	19	0	.00	74	4
11...	14000	1000	0	0	10	1.2	18	0	.00	--	1
16...	12000	2000	0	0	<10	.9	0	10	.00	--	0
23...	--	--	0	0	<10	<.5	0	20	.00	--	7
29...	11000	1700	5	0	<10	<.5	0	0	.00	--	4
FEB.											
06...	15000	2200	0	0	<10	<.5	0	30	.00	6.0	2
15...	52000	3900	0	0	<10	<.5	0	120	.00	--	0
20...	19000	1100	3	0	<10	<.5	<5	0	.00	--	--
27...	18000	4800	0	2	<10	<.5	<5	0	.00	--	0
MAR.											
05...	34000	5000	0	1	<10	<.5	<5	0	.00	2.0	1
14...	18000	5000	0	0	<10	<.5	5	20	.01	--	0
19...	24000	2200	0	0	<10	<.5	0	10	.00	--	0
30...	14000	510	0	1	<10	<.5	0	40	.00	--	3
APR.											
05...	68000	8200	2	1	10	<.5	8	10	.00	.0	0
12...	14000	1300	0	0	<10	.5	0	0	.00	--	0
17...	13000	1400	0	0	<10	<.5	0	0	.00	--	0
25...	18000	4800	0	1	<10	.5	15	70	.00	--	0
MAY											
03...	13000	600	0	0	<10	<.5	0	20	.00	--	0
10...	--	--	0	0	<10	<.5	0	0	.00	1.0	2
17...	2500	2000	0	0	<10	<.5	0	20	.00	--	1
22...	4400	940	0	0	<10	<.5	0	10	.00	--	0
29...	38000	4500	0	0	<10	<.5	<5	20	.00	--	0
JUNE											
06...	7000	800	0	0	<10	<.5	0	0	.00	.0	0
14...	3400	--	0	0	<10	<.5	0	10	.00	--	0
21...	1800	150	0	0	<10	<.5	0	10	.00	--	0
27...	9600	2600	0	0	<10	<.5	0	0	.00	--	4
JULY											
02...	55000	4300	0	0	<10	<.5	0	0	.00	3.0	0
10...	16000	360	0	0	<10	<.5	0	0	.00	--	10
17...	--	--	0	0	<10	2.3	0	0	.00	--	0
25...	1400	150	0	0	20	.5	0	0	.00	--	0
AUG.											
01...	5400	1400	0	0	10	.5	0	0	.00	3.0	0
08...	4000	2000	0	0	10	.5	0	0	.00	5.0	2
15...	5000	350	0	0	10	.5	0	0	.00	--	1
23...	400	180	0	0	<10	<.5	0	0	.00	--	0
29...	1400	100	0	0	<10	<.5	0	0	.00	--	0
SEP.											
04...	7400	4600	0	0	<10	<.5	0	10	.00	.0	2
11...	10000	560	0	2	<10	<.5	0	20	.00	--	0
19...	21000	730	0	0	<10	<.5	0	0	.00	--	0
27...	12000	500	0	0	<10	<.5	0	0	.00	--	0

RED RIVER BASIN

07355130 RED RIVER AT BOYCE, IA.--Continued

CHEMICAL ANALYSES, NOVEMBER 1972 TO SEPTEMBER 1973--Continued

DATE	ALDRIN (UG/L)	LINDANE (UG/L)	CHLOR- DAVE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR EPOXIDE (UG/L)
NOV.										
15...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
21...	.00	.01	.0	.01	.00	.01	.01	.01	.01	.01
27...	.00	.00	.0	.01	.00	.01	.00	.00	.00	.00
DEC.										
07...	.00	.00	.0	.00	.00	.02	.00	.00	.00	.00
11...	.00	.00	.0	.00	.00	.01	.00	.00	.00	.00
21...	.00	.00	.0	.00	.00	.01	.00	.00	.00	.00
28...	.00	.00	.0	.00	.00	.00	.01	.00	.00	.00
JAN.										
03...	.00	.00	.0	.00	.01	.02	.01	.00	.00	.00
11...	.00	.00	.0	.00	.01	.02	.00	.00	.00	.00
16...	.00	.00	.0	.00	.00	.02	.00	.00	.00	.00
23...	.00	.00	.0	.00	.01	.02	.01	.00	.00	.00
29...	.00	.00	.0	.00	.00	.01	.00	.00	.00	.00
FEB.										
07...	.00	.00	.0	.00	.01	.03	.00	.00	.00	.00
15...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
20...	.00	.00	.1	.00	.03	.04	.02	.00	.00	.00
27...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
MAR.										
05...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
14...	.00	.00	.0	.00	.00	.01	.00	.00	.00	.00
19...	.00	.00	.0	.00	.00	.01	.00	.00	.00	.00
30...	.00	.00	.0	.00	.01	.01	.01	.00	.00	.00
APR.										
05...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
12...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
17...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
25...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
MAY										
03...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
10...	.00	.00	.0	.00	.00	.01	.00	.00	.00	.00
17...	.00	.00	.0	.00	.01	.01	.00	.00	.00	.00
22...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
29...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
JUNE										
06...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
14...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
21...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
27...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
JULY										
02...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
10...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
17...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
25...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
AUG.										
09...	--	--	--	--	--	--	--	--	--	--
23...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
29...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
SEP.										
04...	.00	.00	.0	.00	.00	.00	.01	.00	.00	.00
11...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
19...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
27...	.00	.00	.0	.00	.00	.00	.01	.00	.00	.00

RED RIVER BASIN

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07355130 RED RIVER AT BOYCE, LA.--Continued

CHEMICAL ANALYSES, NOVEMBER 1972 TO SEPTEMBER 1973--Continued

DATE	CHLOR- DANE IN BOTTOM DE- POSITS (UG/KG)	DDD IN BOTTOM DE- POSITS (UG/KG)	DDE IN BOTTOM DE- POSITS (UG/KG)	DDT IN BOTTOM DE- POSITS (UG/KG)	DI- ELDRIN IN BOTTOM DE- POSITS (UG/KG)	ENDRIN IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSITS (UG/KG)	PCB IN BOTTOM DE- POSITS (UG/KG)
NOV.									
15...	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--
DEC.									
07...	--	.2	.8	1.2	<.2	<.2	<.2	<.2	--
11...	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--
JAN.									
03...	<1.0	<.2	.5	<.2	<.2	<.2	<.2	<.2	--
11...	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--
FEB.									
07...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--
27...	.0	--	.7	.0	.0	.0	.0	.0	.0
MAR.									
05...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--
APR.									
05...	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
MAY									
03...	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--
JUNE									
05...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--
JULY									
02...	--	--	--	--	--	--	--	--	--
10...	.0	.0	.0	.0	.0	.0	.0	.0	.0
17...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
AUG.									
04...	.0	.6	1.4	.0	.0	.0	.0	.0	.0
SEP.									
04...	0	3.1	4.3	1.2	.0	.0	.0	.0	0

RED RIVER BASIN

07355130 RED RIVER AT BOYCE, LA.--Continued

CHEMICAL ANALYSES, NOVEMBER 1972 TO SEPTEMBER 1973--Continued

DATE	PCB (UG/L)	MALATHION (UG/L)	PARATHION (UG/L)	METHYL PARATHION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	ALDRIN IN BOTTOM DE- POSITS (UG/KG)	LINDANE IN BOTTOM DE- POSITS (UG/KG)
NOV.									
15...	--	.00	.00	.00	.02	.02	.00	--	--
21...	--	.01	.01	.01	.01	.01	.01	--	--
27...	--	.00	.00	.00	--	--	--	--	--
DEC.									
07...	--	.00	.00	.00	.00	.00	.00	<.2	--
11...	--	.00	.00	.00	.03	.00	.00	--	--
21...	--	.00	.00	.00	.02	.00	.00	--	--
28...	--	.00	.00	.00	.00	.00	.00	--	--
JAN.									
03...	--	.00	.00	.00	.04	.01	.00	<.2	<.2
11...	--	.00	.00	.00	.03	.01	.00	--	--
16...	--	.00	.00	.00	.02	.01	.00	--	--
23...	--	.00	.00	.00	.02	.01	.00	--	--
29...	.0	.00	.00	.00	.06	.01	.00	--	--
FEB.									
07...	.0	.00	.00	.00	.07	.01	.00	--	--
15...	.0	.00	.00	.00	.05	.01	.00	--	--
20...	.0	.00	.00	.00	.06	.01	.00	--	--
27...	.0	--	--	--	.06	.01	.00	.0	.0
MAR.									
05...	.0	.00	.00	.00	.04	.00	.00	--	--
14...	.0	.00	.00	.00	.04	.01	.00	--	--
19...	.0	.00	.00	.00	.04	.10	.00	--	--
30...	.0	.00	.00	.00	.05	.00	.00	--	--
APR.									
05...	--	.00	.00	.00	--	--	--	--	--
12...	.0	.00	.00	.00	.08	.00	.00	--	--
17...	.0	.00	.00	.00	.04	.00	.00	--	--
25...	.0	.00	.00	.00	.04	.01	.00	--	--
MAY									
03...	.0	.00	.00	.00	.04	.01	.00	--	--
10...	.0	.00	.00	.00	.05	.01	.00	--	--
17...	.0	.00	.00	.00	.08	.01	.00	--	--
22...	.0	.00	.00	.00	.07	.00	.00	--	--
29...	.0	.00	.00	.00	.04	.00	.00	--	--
JUNE									
06...	.0	.00	.00	.00	.02	.00	.00	--	--
14...	--	.00	.00	.00	.03	.04	.00	--	--
21...	.0	.00	.00	.00	.08	.08	.00	--	--
27...	.0	.00	.00	.00	.04	.05	.00	--	--
JULY									
02...	.0	.00	.00	.00	.03	.02	.00	--	--
10...	.0	.00	.00	.00	.07	.04	.00	.0	.0
17...	.0	.00	.00	.00	.03	.02	.00	--	--
25...	.0	.00	.00	.00	.07	.03	.00	--	--
AUG.									
09...	--	--	--	--	--	--	--	.0	.0
23...	.0	.00	.00	.00	.00	.02	.00	--	--
29...	.0	.00	.00	.00	.03	.04	.00	--	--
SEP.									
04...	.0	.00	.00	.00	.06	.01	.00	.0	.0
11...	.0	.00	.00	.00	.02	.01	.01	--	--
19...	.0	.00	.00	.00	.03	.02	.00	--	--
27...	.0	.00	.00	.00	.00	.00	.00	--	--

RED RIVER BASIN

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07355500 RED RIVER AT ALEXANDRIA, LA.

LOCATION.--Lat 31°18'46", long 92°26'34", in SE¼ sec.10, T.4 N., R.1 W., Rapides Parish, at gaging station near center of span on downstream side of old bridge on U.S. Highway 165 between Alexandria and Pineville, and 1.7 miles downstream from Bayou Rigolette.

DRAINAGE AREA.--67,500 sq mi, of which 5,936 sq mi above Denison Dam is noncontributing.

PERIOD OF RECORD.--Chemical analyses: January to September 1973.

Water temperatures: May to September 1973.

CHEMICAL ANALYSES, JANUARY TO SEPTEMBER 1973

DATE	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED IRON (FE) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NESIUM (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED POT- ASSIUM (K) (MG/L)	BICARB- ONATE (HCO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
JAN. 31...	13	--	16	4.9	15	3.9	58	16	20	.3	--	120
MAR. 30...	1.8	--	30	5.1	44	7.0	81	36	66	.2	.20	280
APR. 24...	3.8	--	25	5.2	22	2.9	87	22	32	.2	.20	192
MAY 30...	8.0	40	33	5.7	42	3.4	93	43	64	.1	.09	--
JUNE 21...	4.0	--	31	5.2	36	3.3	87	22	59	.1	.20	227
JULY 17...	8.3	--	52	12	69	4.3	159	58	100	.2	.09	387
AUG. 15...	4.7	0	65	17	85	4.8	204	74	130	.2	.09	549
SEP. 19...	8.3	--	25	5.7	19	3.6	83	20	28	.2	.20	210

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITU- ENTS) (MG/L)	SUS- PENDED SOLIDS (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (MG/L)
JAN. 31...	122	334	60	27	191	7.0	90	110
MAR. 30...	232	--	100	34	419	15.5	20	250
APR. 24...	156	--	84	13	278	21.5	20	400
MAY 30...	246	--	110	34	435	24.5	20	14
JUNE 21...	205	--	100	32	413	27.0	20	11
JULY 17...	382	--	18	48	577	30.5	10	31
AUG. 15...	481	--	230	67	853	30.5	15	16
SEP. 19...	151	--	86	18	268	25.5	30	13

07355500 RED RIVER AT ALEXANDRIA, LA.--Continued

CHEMICAL ANALYSES, JANUARY TO SEPTEMBER 1973--Continued

[illegible]

07355500 RED RIVER AT ALEXANDRIA, LA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), MAY TO SEPTEMBER 1973
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	451	360	548	---
2								---	460	388	---	---
3								---	456	429	592	---
4								---	460	---	645	---
5								---	520	570	552	---
6								---	478	596	593	---
7								---	473	---	655	---
8								---	414	---	723	---
9								---	427	638	740	---
10								---	355	640	744	---
11								---	387	557	761	---
12								---	397	502	828	---
13								---	392	517	---	---
14								---	315	---	856	---
15								---	510	---	---	---
16								---	573	652	962	---
17								---	561	672	999	---
18								---	579	678	797	---
19								---	544	740	730	---
20								---	465	742	893	---
21								361	434	---	895	---
22								260	432	---	936	---
23								295	433	644	---	---
24								445	432	670	945	---
25								326	428	635	1060	---
26								366	424	635	1050	---
27								362	511	667	---	---
28								403	492	631	976	---
29								462	427	576	983	---
30								464	357	576	854	---
31								450	---	568	857	---
AVG.								---	453	---	815	---

TEMPERATURE (°C) OF WATER, MAY TO SEPTEMBER 1973
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	24.0	25.5	30.0	---
2								---	25.0	---	---	---
3								---	25.0	25.5	30.0	---
4								---	25.0	---	28.0	---
5								---	25.5	---	29.0	---
6								---	25.5	---	30.0	---
7								---	25.5	---	29.5	---
8								---	25.5	---	30.0	---
9								---	25.5	25.0	30.0	---
10								---	25.0	30.0	30.0	---
11								---	25.0	30.0	30.0	---
12								---	24.5	26.0	31.5	---
13								---	25.0	29.5	---	---
14								---	26.5	---	30.0	---
15								---	25.0	---	---	---
16								---	25.0	30.0	30.0	---
17								---	25.0	30.0	30.0	---
18								---	25.0	30.0	---	---
19								---	25.0	31.5	31.0	---
20								---	27.5	31.0	30.0	---
21								24.0	26.5	---	30.5	---
22								24.5	25.5	---	30.0	---
23								25.0	24.5	31.0	---	---
24								25.0	25.0	31.5	29.0	---
25								25.0	24.5	30.0	30.0	---
26								25.0	25.0	29.5	31.0	---
27								24.5	25.5	30.0	---	---
28								23.0	25.5	31.0	---	---
29								25.0	26.0	29.0	---	---
30								25.0	25.5	31.0	28.5	---
31								25.5	---	31.5	29.0	---
AVG.								---	25.0	---	-	---

RED RIVER BASIN

07355600 RED RIVER AT MONCLA, LA.

LOCATION.--Lat 31°12'10", long 92°08'30", T.3 N., R.3 E., Avoyelles Parish, near center of span on downstream side of bridge on State Highway 115, 1.4 miles west of Moncla, and at mile 74.0.

DRAINAGE AREA.--67,625 sq mi, of which 5,936 sq mi above Denison Dam is noncontributing.

PERIOD OF RECORD.--Chemical analyses: November 1972 to September 1973.

CHEMICAL ANALYSES, NOVEMBER 1972 TO SEPTEMBER 1973

DATE	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED IRON (FE) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)
NOV.											
15...	6.1	40	22	4.2	10	4.8	73	13	13	.1	.10
21...	--	--	--	--	--	--	68	20	32	--	.09
27...	--	100	--	--	--	--	43	17	26	--	.09
DEC.											
07...	6.1	70	21	3.1	29	3.8	69	26	46	1.1	.11
11...	--	110	--	--	--	--	72	19	35	--	.11
21...	--	120	--	--	--	--	56	20	37	--	.10
28...	--	220	--	--	--	--	54	35	66	--	.07
JAN.											
04...	6.8	100	20	5.8	28	3.8	59	26	44	.3	.14
09...	--	200	--	--	--	--	65	28	31	--	.16
16...	--	80	--	--	--	--	58	22	30	--	.11
24...	--	60	--	--	--	--	69	34	58	--	.09
29...	--	80	--	--	--	--	72	20	25	--	.07
FEB.											
06...	11	50	18	4.6	14	2.1	60	18	20	.3	.09
13...	--	190	--	--	--	--	64	24	38	--	.09
19...	--	90	--	--	--	--	68	24	37	--	.05
27...	--	80	--	--	--	--	71	43	71	--	.05
MAR.											
05...	9.4	110	34	9.0	58	3.4	88	51	85	.2	.10
15...	--	160	--	--	--	--	79	24	32	--	.09
19...	--	50	--	--	--	--	79	20	28	--	.09
29...	--	90	--	--	--	--	68	28	27	--	.09
APR.											
03...	12	140	22	6.1	22	2.5	72	23	33	.2	.09
11...	--	190	--	--	--	--	69	28	44	--	.14
17...	--	100	--	--	--	--	77	41	71	--	.09
24...	--	90	--	--	--	--	84	26	39	--	.16
MAY											
03...	4.0	--	30	6.1	24	2.1	85	26	42	.3	.50
08...	--	--	--	--	--	--	84	34	17	--	.14
17...	--	50	--	--	--	--	79	18	33	--	.14
22...	--	60	--	--	--	--	73	18	26	--	.11
30...	--	40	--	--	--	--	95	37	64	--	.10
JUNE											
06...	--	40	--	--	--	--	103	40	66	--	.09
13...	4.0	30	32	6.1	32	3.0	94	32	48	.2	.07
20...	--	70	--	--	--	--	95	42	75	--	.18
27...	--	20	--	--	--	--	95	57	65	--	.20
JULY											
02...	6.2	20	30	6.1	34	2.6	95	29	46	.2	.50
10...	--	20	--	--	--	--	120	53	98	--	.05
14...	--	0	--	--	--	--	150	53	99	--	.05
25...	--	50	--	--	--	--	155	55	91	--	.02
AUG.											
01...	--	20	--	--	--	--	145	47	81	--	.05
09...	--	20	--	--	--	--	170	56	100	--	.05
15...	--	60	64	16	--	--	195	68	130	--	.01
22...	--	0	55	15	--	--	184	60	110	--	.00
29...	--	0	--	--	--	--	--	--	--	--	--
SEP.											
04...	--	0	--	--	--	--	--	--	--	--	--
12...	--	20	--	--	--	--	--	--	--	--	--
18...	--	10	25	5.8	--	--	95	18	27	--	.15
27...	--	0	--	--	--	--	104	42	65	--	.20

RED RIVER BASIN

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07355600 RED RIVER AT MONCLA, LA.--Continued

CHEMICAL ANALYSES, NOVEMBER 1972 TO SEPTEMBER 1973--Continued

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	SUS- PENDED SOLIDS (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (MG/L)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)
NOV.											
15...	--	104	--	72	12	183	13.0	60	95	7.6	9.4
21...	157	--	704	76	20	256	10.0	30	270	7.6	9.6
27...	--	--	510	66	31	219	9.5	30	120	7.4	10.8
DEC.											
07...	180	179	242	80	23	319	9.5	50	76	7.0	11.0
11...	172	--	184	72	13	258	10.0	55	80	7.1	11.0
21...	162	--	--	--	--	252	7.0	80	80	6.7	11.8
28...	316	--	--	--	--	372	10.0	60	70	6.8	--
JAN.											
04...	185	166	128	74	26	300	10.5	80	41	6.9	10.0
09...	160	--	238	70	17	242	6.0	100	52	6.8	9.9
16...	132	--	276	66	18	249	7.5	90	70	6.8	11.0
24...	166	--	330	84	27	367	11.5	100	65	7.9	--
29...	150	--	244	64	5	225	8.5	100	110	8.1	10.4
FEB.											
06...	170	118	282	64	15	197	13.5	40	79	6.9	9.6
13...	174	--	492	80	81	280	10.0	40	71	6.8	10.8
19...	180	--	342	81	25	269	9.0	30	82	7.1	10.4
27...	280	--	228	100	42	431	11.0	40	107	7.0	10.0
MAR.											
05...	320	294	242	120	50	529	14.5	40	90	7.0	8.5
15...	170	--	722	90	25	279	18.0	40	650	6.9	8.5
19...	163	--	786	85	20	248	17.0	90	630	6.9	8.0
24...	201	--	353	83	27	316	15.0	70	95	7.1	7.8
APR.											
03...	171	156	392	80	20	248	17.5	70	100	6.3	7.9
11...	200	--	327	81	24	315	15.0	50	52	6.9	8.7
17...	277	--	497	110	43	433	16.5	30	81	6.9	8.5
24...	182	--	641	92	23	306	21.0	40	115	6.8	7.4
MAY											
03...	214	183	471	100	30	339	21.0	--	--	7.0	6.7
08...	259	--	511	110	37	416	21.0	--	149	6.7	7.4
17...	152	--	393	78	13	270	23.5	30	160	6.7	6.5
22...	151	--	285	72	12	239	23.5	55	140	6.6	6.6
30...	276	--	293	110	29	440	24.5	40	91	6.8	6.3
JUNE											
06...	262	--	140	120	31	467	24.0	30	58	7.0	6.4
13...	227	20	576	100	28	374	--	40	80	7.0	--
20...	292	--	323	120	40	498	28.0	40	81	7.2	6.4
27...	278	--	461	120	37	464	30.0	15	77	7.1	6.1
JULY											
02...	222	205	334	100	23	362	29.5	25	105	7.6	6.2
10...	380	--	218	150	55	638	29.0	50	71	7.5	6.3
18...	394	--	67	180	52	683	30.5	20	58	7.7	7.2
25...	374	--	55	180	44	650	30.5	30	44	7.3	7.1
AUG.											
01...	323	--	50	150	35	577	31.0	10	40	7.1	7.3
09...	420	--	70	200	57	718	29.5	20	37	7.7	7.3
15...	474	--	--	--	--	867	30.5	10	16	7.5	7.5
22...	496	--	--	--	--	707	30.0	10	16	7.8	8.4
24...	--	--	--	--	--	--	28.0	--	16	--	7.5
SEP.											
04...	--	--	--	--	--	--	28.0	--	--	--	6.8
12...	--	--	--	--	--	--	28.0	--	37	--	7.3
18...	174	--	379	86	8	280	26.0	100	90	7.5	6.1
27...	271	--	120	140	55	450	20.5	40	51	7.6	6.0

RED RIVER BASIN

07355600 RED RIVER AT MONCLA, LA.--Continued

CHEMICAL ANALYSES, NOVEMBER 1972 TO SEPTEMBER 1973--Continued

DATE	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDED GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS NATURAL ALPHA AS (U) (UG/L)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS SR90 (PC/L)
NOV.										
15...	2.4	.065	26000	4800	--	--	--	--	--	--
21...	1.7	.046	36000	5600	--	--	--	--	--	--
27...	3.3	.059	21000	780	--	--	--	--	--	--
DEC.										
07...	6.3	.062	16000	1500	--	--	--	--	--	--
11...	3.5	.46	--	--	--	--	--	--	--	--
21...	--	.013	32000	2800	--	--	--	--	--	--
28...	--	.062	60000	1500	--	--	--	--	--	--
JAN.										
04...	4.6	.13	8800	3500	--	--	--	--	--	--
09...	1.6	.046	5300	1700	--	--	--	--	--	--
16...	4.5	.049	15000	2900	--	--	--	--	--	--
24...	--	.065	7000	1800	--	--	--	--	--	--
29...	4.2	.055	24000	1000	--	--	--	--	--	--
FEB.										
06...	2.5	.006	10000	3300	--	--	--	--	--	--
13...	4.0	.016	11000	1600	--	--	--	--	--	--
19...	2.3	.034	10000	440	--	--	--	--	--	--
27...	2.2	.030	16000	2200	--	--	--	--	--	--
MAR.										
05...	3.5	.023	15000	2700	--	--	--	--	--	--
15...	3.0	.047	23000	1500	--	--	--	--	--	--
19...	1.8	.033	22000	1400	--	--	--	--	--	--
29...	1.7	.033	13000	1100	--	--	--	--	--	--
APR.										
03...	4.7	.034	63000	2400	--	--	--	--	--	--
11...	1.8	.036	12000	7000	--	--	--	--	--	--
17...	1.9	.013	14000	2100	--	--	--	--	--	--
24...	2.5	.016	32000	9000	--	--	--	--	--	--
MAY										
03...	2.2	.030	42000	6400	--	--	--	--	--	--
08...	1.8	.016	40000	3000	--	--	--	--	--	--
17...	6.2	.007	15000	--	--	--	--	--	--	--
22...	1.3	.042	14000	4100	--	--	--	--	--	--
30...	3.0	.024	34000	2000	--	--	--	--	--	--
JUNE										
06...	.9	.018	37000	6200	--	--	--	--	--	--
13...	--	.029	--	--	--	--	--	--	--	--
20...	1.1	.090	7000	--	--	--	--	--	--	--
27...	--	.072	11000	2500	--	--	--	--	--	--
JULY										
02...	3.2	.020	60000	6500	--	--	--	--	--	--
10...	1.0	.002	13000	360	--	--	--	--	--	--
18...	1.2	.025	35000	5000	--	--	--	--	--	--
25...	2.0	.049	6200	1100	--	--	--	--	--	--
AUG.										
01...	1.9	.000	7500	1600	--	--	--	--	--	--
09...	2.2	.007	70000	2000	--	--	--	--	--	--
15...	1.5	--	3400	2000	--	--	--	--	--	--
22...	1.3	--	3000	800	--	--	--	--	--	--
29...	2.9	--	5000	800	--	--	--	--	--	--
SEP.										
04...	4.4	--	9000	950	--	--	--	--	--	--
12...	3.3	--	36000	1700	--	--	--	--	--	--
18...	1.1	--	19000	6500	--	--	--	--	--	--
27...	1.0	.030	16000	1200	--	--	--	--	--	--

RED RIVER BASIN

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07355600 RED RIVER AT MONCLA, LA.--Continued

CHEMICAL ANALYSES, NOVEMBER 1972 TO SEPTEMBER 1973--Continued

DATE	SUS- PENDING GROSS BETA AS SR90 /Y40 (MC/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED Cadmium (Cd) (UG/L)	HEXAM- VALENT CHROMIUM (Cr6) (UG/L)	TOTAL MERCURY (Hg) (UG/L)	DIS- SOLVED LEAD (Pb) (UG/L)	DIS- SOLVED ZINC (Zn) (UG/L)	CYANIDE (CN) (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)
NOV.										
14...	--	0	0	<10	<.5	<5	50	.00	12	0
21...	--	--	0	<10	<.5	<5	30	.00	3.0	14
27...	--	0	2	<10	<.5	8	10	.00	--	3
DEC.										
07...	--	0	1	<10	<.5	0	10	.00	6.0	2
11...	--	0	1	<10	<.5	5	20	.00	--	4
21...	--	0	1	<10	<.5	8	0	.00	--	2
28...	--	1	0	<10	<.5	<5	0	.00	--	2
JAN.										
04...	--	2	0	<10	<.5	18	0	.00	64	3
09...	--	1	0	<10	1.4	8	0	.00	--	3
16...	--	2	0	<10	2.4	0	10	.00	--	2
24...	--	0	0	<10	<.5	0	50	.00	--	0
29...	--	0	0	<10	<.5	0	10	.00	--	3
FEB.										
05...	--	2	0	<10	<.5	0	40	.00	3.0	7
13...	--	2	0	<10	<.5	0	40	.00	--	4
19...	--	0	--	<10	<.5	<5	0	.00	--	5
27...	--	0	5	<10	<.5	<5	40	.00	--	0
MAR.										
05...	--	0	0	<10	<.5	<5	0	.00	3.0	0
15...	--	0	0	<10	<.5	5	10	.00	--	0
19...	--	0	0	<10	<.5	0	10	.00	--	0
29...	--	0	3	<10	<.5	<5	30	.00	--	2
APR.										
03...	--	0	1	<10	<.5	<5	10	.00	.0	1
11...	--	0	0	<10	<.5	0	20	.00	--	0
17...	--	0	0	<10	<.5	0	10	.00	--	0
24...	--	0	--	<10	<.5	0	40	.00	--	0
MAY										
03...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
17...	--	0	0	<10	<.5	0	20	.00	--	9
22...	--	0	0	<10	<.5	0	0	.00	--	7
30...	--	0	0	<10	<.5	0	10	.00	--	0
JUNE										
06...	--	0	0	<10	<.5	0	10	.00	4.0	3
13...	--	0	0	<10	<.5	0	20	.00	--	2
20...	--	0	0	<10	<.5	<5	30	.00	--	1
27...	--	0	0	10	<.5	0	20	.00	--	0
JULY										
02...	--	0	0	<10	<.5	0	0	.00	4.0	0
10...	--	0	0	<10	<.5	0	0	.00	--	0
18...	--	0	0	<10	<.5	0	0	.00	--	0
25...	--	0	0	<10	<.5	0	70	.00	--	0
AUG.										
01...	--	0	1	<10	<.5	0	10	.00	4.0	0
09...	--	0	0	<10	<.5	0	0	.00	4.0	1
15...	--	0	0	<10	<.5	14	0	.00	--	1
22...	--	0	0	<10	<.5	0	0	.00	--	2
29...	--	0	0	<10	<.5	0	0	.00	--	0
SEP.										
04...	--	0	0	<10	<.5	0	0	.00	.0	0
12...	--	0	0	<10	<.5	0	10	.00	--	0
14...	--	0	0	<10	<.5	0	0	.00	--	0
27...	--	0	0	<10	<.5	0	10	.00	--	0

RED RIVER BASIN

07355600 RED RIVER AT MONCLA, LA.--Continued

CHEMICAL ANALYSES, NOVEMBER 1972 TO SEPTEMBER 1973--Continued

DATE	ALDRIN (UG/L)	LINDANE (UG/L)	CHLOR- DAVE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR EPOXIDE (UG/L)
NOV.										
15...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
21...	.00	.00	.0	.00	.01	.02	.00	.00	.00	.00
27...	.00	.00	.0	.01	.00	.01	.00	.00	.00	.00
DEC.										
07...	.00	.00	.0	.00	.00	.02	.00	.00	.00	.00
21...	.00	.00	.0	.00	.00	.01	.00	.00	.00	.00
28...	.00	.00	.0	.00	.00	.00	.01	.00	.00	.00
JAN.										
04...	.00	.00	.0	.00	.00	.03	.01	.00	.00	.00
09...	.00	.00	.0	.00	.00	.02	.01	.00	.00	.00
16...	.00	.00	.0	.00	.00	.02	.00	.00	.00	.00
17...	.00	.00	.0	.00	.00	.01	.00	.00	.00	.00
24...	.00	.00	.0	.00	.01	.02	.01	.00	.00	.00
29...	.00	.00	.0	.00	.00	.01	.00	.00	.00	.00
FEB.										
06...	.00	.00	.0	.00	.01	.02	.00	.00	.00	.00
13...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
27...	.00	.00	.0	.00	.00	.01	.00	.00	.00	.00
MAR.										
05...	.00	.00	.0	.00	.00	.01	.00	.00	.00	.00
15...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
19...	.00	.00	.0	.01	.01	.01	.00	.00	.00	.00
29...	.00	.00	.0	.00	.01	.02	.01	.00	.00	.00
APR.										
03...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
11...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
17...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
24...	.00	.00	.0	.01	.00	.01	.00	.00	.00	.00
MAY										
03...	.00	.00	.0	.00	.00	.01	.01	.00	.00	.00
08...	.00	.00	.0	.00	.00	.01	.00	.00	.00	.00
17...	.00	.00	.0	.00	.00	.01	.00	.00	.00	.00
22...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
30...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
JUNE										
06...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
13...	.00	.00	.0	.00	.01	.01	.00	.00	.00	.00
20...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
27...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
JULY										
02...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
10...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
18...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
25...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
AUG.										
01...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
09...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
15...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
22...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
29...	.00	.00	.0	.00	.00	.00	.01	.00	.00	.00
SEP.										
04...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
12...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
18...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
27...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00

RED RIVER BASIN

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07355600 RED RIVER AT MONCLA, LA.--Continued

CHEMICAL ANALYSES, NOVEMBER 1972 TO SEPTEMBER 1973--Continued

DATE	PCB (UG/L)	MALA- THION (UG/L)	PARA- THION (UG/L)	METHYL PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	ALDRIN IN BOTTOM DE- POSITS (UG/KG)	LINDANE IN BOTTOM DE- POSITS (UG/KG)
NOV.									
15...	--	.00	.00	.00	.02	.01	.00	--	--
21...	--	.00	.00	.00	.02	.01	.00	--	--
27...	--	.00	.00	.00	.02	.00	.00	<.2	--
DEC.									
07...	--	.00	.00	.00	.00	.01	.00	<.2	<.2
21...	--	.00	.00	.00	.00	.00	.00	--	--
28...	--	.00	.00	.00	.03	.00	.00	--	--
JAN.									
04...	--	.00	.00	.00	.03	.00	.00	<.2	<.2
09...	--	.00	.00	.00	.02	.00	.00	--	--
16...	--	.00	.00	.00	.02	.01	.00	--	--
17...	--	.00	.00	.00	.00	.00	.00	--	--
24...	--	.00	.00	.00	.00	.01	.00	--	--
29...	.0	.00	.00	.00	.10	.01	.00	--	--
FEB.									
06...	.0	.00	.00	.00	.08	.01	.00	--	--
13...	.0	.00	.00	.00	.07	.01	.00	--	--
27...	.0	.00	.00	.00	.06	.01	.00	.0	.0
MAR.									
05...	.0	.00	.00	.00	.03	.00	.00	--	--
15...	.0	.00	.00	.00	.04	.01	.00	--	--
19...	.0	.00	.00	.00	.04	.01	.00	--	--
29...	.0	.00	.00	.00	.07	.01	.00	--	--
APR.									
03...	.0	.00	.00	.00	.06	.01	.00	--	--
11...	.0	.00	.00	.00	.06	.00	.00	--	--
17...	.0	.00	.00	.00	.07	.00	.00	--	--
24...	.0	.00	.00	.00	.06	.01	.00	--	--
MAY									
03...	.0	.00	.00	.00	--	--	--	--	--
08...	.0	.00	.00	.00	.02	.00	.00	--	--
17...	.0	.00	.00	.00	.09	.01	.00	--	--
22...	.0	.00	.00	.00	.08	.00	.00	--	--
30...	.0	.00	.00	.00	.04	.00	.00	--	--
JUNE									
06...	.0	.00	.00	.00	.03	.00	.00	--	--
13...	.0	.00	.00	.00	.09	.16	.00	--	--
20...	.0	.00	.00	.00	.05	.05	.00	--	--
27...	.0	.00	.00	.00	.04	.04	.00	--	--
JULY									
02...	.0	.00	.00	.00	.05	.03	.00	--	--
10...	.0	.00	.00	.00	.06	.02	.00	.0	.0
18...	.0	.00	.00	.00	.04	.02	.00	--	--
25...	.0	.00	.00	.00	.00	.01	.00	--	--
AUG.									
01...	.0	.00	.00	.00	.02	.06	.00	--	--
09...	.0	.00	.00	.00	.03	.09	.04	.0	.0
15...	.0	.00	.00	.00	.00	.04	.00	--	--
22...	.0	.00	.00	.00	.02	.03	.00	--	--
29...	.0	.00	.00	.00	.00	.02	.00	--	--
SEP.									
04...	.0	.00	.00	.00	.09	.01	.00	.0	.0
12...	.0	.00	.00	.00	.04	.02	.00	--	--
18...	.0	.00	.00	.00	.02	.02	.00	--	--
27...	.0	.00	.00	.00	.00	.00	.00	--	--

RED RIVER BASIN

07355600 RED RIVER AT MONCLA, LA.--Continued

CHEMICAL ANALYSES, NOVEMBER 1972 TO SEPTEMBER 1973--Continued

DATE	CHLOR- DANE IN BOTTOM DE- POSIT (UG/KG)	DDD IN BOTTOM DE- POSIT (UG/KG)	DDE IN BOTTOM DE- POSIT (UG/KG)	DNT IN BOTTOM DE- POSIT (UG/KG)	DI- ELURIN IN BOTTOM DE- POSIT (UG/KG)	ENDRIN IN BOTTOM DE- POSIT (UG/KG)	HEPTA- CHLOR IN BOTTOM DE- POSIT (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSIT (UG/KG)	PCH IN BOTTOM DE- POSIT (UG/KG)
NOV.									
15...	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--
27...	<1.0	1.0	2.8	7.0	<.2	<.2	<.2	<.2	--
DEC.									
07...	<1.0	3.6	3.8	3.7	<.2	<.2	<.2	<.2	--
21...	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--
JAN.									
04...	<1.0	<.2	1.2	1.1	<.2	<.2	<.2	<.2	--
09...	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--
FEB.									
06...	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--
27...	.0	<.0	2.7	4.3	.0	.0	.0	.0	.0
MAR.									
05...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--
APR.									
03...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
MAY									
03...	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--
JUNE									
06...	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--
JULY									
02...	--	--	--	--	--	--	--	--	--
10...	.0	.0	.0	.0	.0	.0	.0	.0	.0
18...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
AUG.									
01...	--	--	--	--	--	--	--	--	--
09...	.0	.0	.0	.0	.0	.0	.0	.0	.0
15...	--	--	--	--	--	--	--	--	--
SEP.									
04...	0	.0	.0	.0	.0	.0	.0	.0	0

07364521 BAYOU BARTHOLOMEW NEAR STERLINGTON, LA.

LOCATION.--Lat 32°43'21", long 92°02'26", Morehouse Parish, at bridge on parish road near Sterlington and 5.4 miles from junction of U.S. Highway 165 and State Highway 2.

DRAINAGE AREA.--1,662 sq mi.

PERIOD OF RECORD.--Chemical analyses: December 1969 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIJM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)
OCT. 17...	14	24	7.3	21	3.3	125	5.2	23	.2	.05
NOV. 14...	7.2	7.4	1.8	5.5	4.9	32	7.4	5.7	.0	.20
DEC. 13...	4.9	3.0	1.8	3.0	3.2	18	4.2	2.6	.2	.10
JAN. 10...	11	3.1	1.0	2.5	2.4	14	4.0	.8	.1	.02
FEB. 14...	4.7	3.1	2.0	2.5	2.4	19	5.4	1.9	.3	.10
MAR. 20...	4.2	3.0	.1	1.6	1.6	16	.0	.0	.0	.11
APR. 04...	6.5	4.0	1.2	1.5	2.5	23	.6	1.0	.0	.14
MAY 23...	5.0	4.7	2.0	1.1	3.3	24	.6	.4	.2	.20

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	SUS- PENDED SOLIDS (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (MG/L)
OCT. 17...	165	160	8	90	0	276	26.0	15	--
NOV. 14...	94	57	--	26	0	90	13.5	80	--
DEC. 13...	55	32	46	15	0	51	6.5	--	--
JAN. 10...	48	32	51	12	1	41	4.0	--	45
FEB. 14...	58	32	26	16	1	46	8.5	160	--
MAR. 20...	37	19	43	8	0	33	15.5	100	--
APR. 04...	59	30	42	15	0	46	16.5	140	--
MAY 23...	79	30	--	19	0	51	23.5	30	--

DATE	PH (UNITS)	DIS- SOLVED OXYGEN DEMAND (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	PHOS- PHATE (PO ₄) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	IMME- DIATE COLI- FORM (COL. UNIES PER 100 ML)	STREP- TOCOCCI (COL- UNIES PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)
OCT. 17...	7.2	8.8	.0	18	--	.052	200	60	30
NOV. 14...	7.1	8.1	1.8	7	.11	--	970	770	950
DEC. 13...	7.2	10.2	2.5	--	.22	--	860	--	540
JAN. 10...	7.1	11.0	2.0	42	.09	--	--	160	200
FEB. 14...	6.5	9.2	1.9	33	.16	--	520	170	35
MAR. 20...	6.5	7.0	1.7	12	.11	--	2200	300	30
APR. 04...	6.5	6.4	3.1	10	--	.013	330	240	40
MAY 23...	6.1	7.4	3.0	--	--	--	1200	72	120

07367000 OUACHITA RIVER AT MONROE, LA.

LOCATION.--Lat 32°30'19", long 92°07'32", in lot 50, T.18 N., R.3 E., Ouachita Parish, at gaging station at bridge on U.S. Highway 80 at Monroe, 0.4 miles upstream from Illinois Central Railroad bridge, and 5.5 miles upstream from lock and dam No. 4.

DRAINAGE AREA.--15,298 sq mi.

PERIOD OF RECORD.--Chemical analyses: August 1954 to September 1973.

Water temperatures: August 1954 to September 1958; October 1968 to September 1973.

EXTREMES.--1972-73:

Specific conductance: Maximum, 381 micromhos Oct. 15; minimum, 57 micromhos Jan. 2.

Water temperatures: Maximum, 32.5°C Aug. 25, 26, 31, Sept. 4; minimum, 4°C Dec. 17-19, 24-27.

REMARKS.--Continuous records are collected at this station. Probes are 10 ft below water surface.

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED SILICA (SI02) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTAS-SIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)
OCT. 19...	--	--	--	--	--	--	--	--	--	--	--
NOV. 14...	5.4	270	8.1	1.4	14	3.1	21	6.4	25	.3	.16
28...	--	--	--	--	--	--	--	--	--	--	--
DEC. 13...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
JAN. 09...	--	--	--	--	--	--	--	--	--	--	--
10...	1.8	90	5.7	1.2	7.6	2.1	11	5.4	14	.1	.10
FEB. 14...	.7	160	6.2	1.1	8.5	1.8	14	6.2	16	.1	.05
MAR. 20...	.3	50	6.0	1.7	12	1.5	18	8.2	19	.1	.07
28...	--	--	--	--	--	--	--	--	--	--	--
APR. 04...	.8	190	5.7	1.2	7.8	1.7	15	5.0	14	.1	.20
MAY 08...	--	--	--	--	--	--	--	--	--	--	--
23...	1.3	220	5.8	1.1	6.0	1.8	18	3.8	11	.1	.30
JUNE 14...	4.0	260	12	1.5	9.0	1.8	40	4.4	14	.2	.40
JULY 26...	7.4	--	9.4	2.6	18	2.0	23	10	32	.2	.40
SEP. 12...	6.9	200	10	3.6	31	3.4	18	13	56	.2	.70

DATE	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (MG/L)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (MG/L)
OCT. 19...	--	--	--	--	--	--	--	--	--	--	--
NOV. 14...	--	74	26	9	168	14.0	50	--	6.5	6.7	1.6
28...	--	--	--	--	103	19.0	--	10	--	5.9	--
DEC. 13...	--	--	--	--	--	7.0	--	20	--	9.4	1.8
19...	--	--	--	--	121	--	--	8	--	--	--
JAN. 09...	--	--	--	--	--	--	--	--	--	--	--
10...	70	44	19	10	88	4.5	40	13	6.0	9.5	1.4
FEB. 14...	88	48	20	9	97	8.5	30	42	5.8	9.2	2.4
MAR. 20...	71	58	22	7	103	15.5	20	25	6.6	6.7	5.3
28...	--	--	--	--	94	15.5	--	--	--	6.0	--
APR. 04...	72	44	19	7	88	16.0	50	10	5.9	6.2	1.7
MAY 08...	--	--	--	--	102	19.0	--	--	--	3.6	--
23...	48	41	19	4	74	23.0	60	--	7.3	4.6	2.1
JUNE 14...	74	69	36	3	120	--	40	--	7.0	--	--
JULY 26...	94	94	34	15	160	31.0	30	18	7.1	4.3	1.4
SEP. 12...	138	136	40	25	259	26.5	30	27	6.6	6.5	2.7

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS- SOLVED GROSS ALPHA AS J-NAT. (UG/L)	SUS- PENDE D GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS AS SR90 /Y90 (PC/L)	SUS- PENDE D GROSS BETA AS AS SR90 /Y90 (PC/L)	DIS- SOLVED NATURAL URANIUM (U) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
OCT. 19...	3.2	<.4	2.2	.7	<.01	--	--	--	--	--	--
NOV. 14... 28...	1.9 --	1.3 --	4.2 --	1.0 --	.07 --	0 --	0 --	1 --	<.5 --	<5 --	40 --
DEC. 13... 19...	.9 --	1.1 --	3.7 --	1.2 --	.05 --	1 --	1 --	4 --	<.5 --	0 --	100 --
JAN. 09... 10...	1.1 --	1.1 --	3.2 --	.9 --	.07 --	-- --	-- --	-- --	-- --	-- --	-- --
FEB. 14... MAR.	3.5 20... 28...	.4 --	4.0 --	<.5 --	.06 --	0 --	0 --	<10 --	<.5 --	2 --	0 --
APR. 04... MAY	3.4 08... 23...	1.2 --	3.8 --	.6 --	.06 --	-- --	-- --	-- --	-- --	-- --	-- --
JUNE 14... 14...	1.0 --	.6 --	3.8 --	.9 --	.04 --	-- --	-- --	-- --	-- --	-- --	-- --
JULY 26... SEP.	<1.7 12...	1.2 --	3.3 --	.9 --	.06 --	-- --	-- --	-- --	-- --	-- --	-- --

RED RIVER BASIN

07367000 OUACHITA RIVER AT MONROE, LA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	ALDRIN (UG/L)	LINDANE (UG/L)	CHLOR- DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA- CHLOR (UG/L)
JUNE 14...	.00	.00	.0	.00	.00	.00	.00	.00	.00
AUG. 30...	.00	.00	.0	.00	.00	.00	.00	.00	.00

DATE	HEPTA- CHLOR EPOXIDE (UG/L)	PCB (UG/L)	MALA- THION (UG/L)	PARA- THION (UG/L)	METHYL PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
JUNE 14...	.00	.0	.00	.00	.00	.00	.02	.00
AUG. 30...	.00	.0	.00	.00	.00	.00	.01	.00

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	196	404	73	65	99	87	90	100	94	140	244	310
2	197	305	76	57	94	93	88	105	95	145	219	325
3	201	350	84	70	95	90	93	100	96	152	218	295
4	221	293	83	81	94	91	91	103	97	148	203	250
5	226	282	68	87	96	89	88	102	97	152	191	---
6	239	165	67	86	98	97	88	107	99	159	271	---
7	240	111	75	85	99	96	91	105	98	157	341	---
8	242	92	77	91	98	99	92	104	98	156	231	---
9	252	90	69	84	89	99	85	98	101	159	213	---
10	284	102	79	94	90	91	85	99	104	164	201	---
11	338	93	84	94	81	97	86	106	106	175	205	---
12	329	107	--	72	85	98	85	102	109	176	201	---
13	325	116	78	76	93	109	82	98	112	187	190	---
14	349	101	86	77	93	111	84	98	115	185	176	---
15	381	93	85	84	86	112	87	96	118	204	186	---
16	374	83	99	83	85	112	94	94	119	201	192	---
17	358	85	93	87	85	112	95	91	116	196	221	---
18	320	99	84	90	84	106	95	90	118	198	234	---
19	311	93	81	87	83	106	95	90	117	205	238	---
20	310	86	60	89	83	106	98	89	113	210	250	177
21	327	85	64	91	86	103	102	92	112	218	233	204
22	340	79	79	89	83	100	104	91	118	254	218	254
23	298	73	72	87	85	99	99	90	127	230	215	313
24	309	72	72	88	82	105	95	89	150	179	245	345
25	303	82	65	87	88	100	92	90	137	172	295	---
26	263	71	64	90	88	95	99	96	141	191	295	---
27	278	74	61	93	88	96	93	96	149	197	285	---
28	263	72	61	92	86	99	90	93	138	210	250	---
29	236	71	67	88	---	101	88	88	137	217	250	---
30	223	71	61	86	---	103	95	91	139	229	255	---
31	282	---	64	96	---	98	---	92	---	243	270	---
AVG.	284	130	---	85	89	100	92	96	116	187	233	---

07367000 OUACHITA RIVER AT MONROE, LA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

OCTOBER				NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.7	1.5	2.1	3.0	0.0	0.7	6.0	5.1	5.6	9.9	9.1	9.6
2	2.4	1.3	1.9	5.2	3.3	4.2	5.7	5.1	5.4	9.9	9.6	9.8
3	2.9	1.4	2.1	5.8	5.3	5.6	---	---	---	9.5	8.8	9.3
4	---	---	---	6.0	5.0	5.6	---	---	---	10.0	8.9	9.1
5	---	---	---	6.2	5.5	5.8	---	---	---	9.2	9.0	9.1
6	---	---	---	6.0	3.5	5.1	---	---	---	9.4	9.0	9.2
7	---	---	---	5.6	2.4	4.1	---	---	---	10.0	9.2	9.7
8	---	---	---	5.9	5.5	5.7	---	---	---	10.1	9.6	9.8
9	---	---	---	6.0	5.5	5.7	---	---	---	10.1	9.7	9.9
10	---	---	---	5.7	5.1	5.5	---	---	---	10.1	9.8	10.0
11	---	---	---	5.8	5.6	5.7	---	---	---	10.1	9.8	10.0
12	---	---	---	5.7	5.2	5.4	---	---	---	10.1	9.7	9.9
13	---	---	---	5.2	4.7	5.3	---	---	---	10.0	9.7	9.9
14	---	---	---	5.7	4.6	5.4	---	---	---	9.9	9.3	9.6
15	---	---	---	5.7	5.5	5.6	7.7	3.6	4.7	9.5	8.7	9.3
16	---	---	---	5.6	5.2	5.3	7.6	5.7	6.9	9.6	9.1	9.4
17	---	---	---	5.5	4.9	5.1	8.7	6.7	7.8	9.5	9.0	9.3
18	---	---	---	5.3	3.2	4.7	9.0	7.2	8.1	9.3	7.1	8.4
19	---	---	---	4.3	2.7	3.4	---	---	---	9.9	8.7	9.5
20	4.2	3.7	4.0	4.3	4.0	4.1	---	---	---	10.1	9.3	9.9
21	4.1	3.2	3.7	---	---	---	---	---	---	10.7	8.3	9.6
22	3.5	0.7	2.1	---	---	---	7.4	5.3	6.8	10.9	10.6	10.7
23	4.1	0.2	1.5	---	---	---	7.4	5.9	6.6	10.9	10.7	10.8
24	4.8	3.9	4.5	---	---	---	7.7	4.6	6.2	10.9	10.7	10.8
25	4.9	4.4	4.7	4.1	2.5	3.2	8.5	7.4	8.0	10.8	10.4	10.6
26	5.0	3.6	4.6	5.2	3.3	3.7	8.8	7.1	8.1	10.5	10.2	10.3
27	4.1	2.7	4.5	5.2	2.1	4.4	9.3	8.4	9.0	10.3	10.0	10.1
28	3.0	2.2	2.6	5.6	3.0	5.6	9.5	8.6	9.2	10.4	9.9	10.2
29	2.7	0.7	1.8	5.7	5.1	5.6	---	---	---	10.4	10.2	10.3
30	0.5	0.0	0.2	5.9	5.3	5.7	---	---	---	10.4	10.2	10.3
31	0.0	0.0	0.0	---	---	---	9.1	6.7	8.0	10.3	9.0	9.9
AVG.	---	---	---	---	---	---	---	---	---	10.9	7.1	9.8
FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.3	7.7	9.2	10.6	9.4	9.9	5.3	5.0	5.1	5.7	5.3	5.5
2	10.5	10.3	10.4	9.5	8.5	9.0	5.3	5.0	5.2	5.5	4.7	5.0
3	10.7	10.4	10.5	9.0	8.0	8.5	5.3	5.1	5.2	5.2	4.5	5.0
4	10.7	10.5	10.6	8.6	7.8	8.1	5.4	5.2	5.3	5.4	4.8	5.1
5	10.6	10.3	10.4	8.7	8.5	8.6	5.5	5.2	5.3	5.3	4.9	5.1
6	10.5	10.0	10.3	8.7	7.4	8.2	6.1	5.6	5.9	5.0	4.4	4.7
7	10.6	10.0	10.4	8.1	7.9	7.6	6.1	5.9	6.0	4.5	2.9	4.0
8	10.8	9.8	10.5	8.1	7.4	7.7	6.0	5.6	5.8	4.0	2.1	3.0
9	11.2	10.7	11.0	7.4	6.1	6.7	6.4	6.0	6.2	3.3	3.1	3.2
10	11.2	11.0	11.2	6.7	5.1	5.9	6.5	6.0	6.3	3.3	2.9	3.1
11	11.1	10.7	10.9	7.1	5.7	6.6	7.0	6.6	6.8	3.2	2.8	3.0
12	10.8	10.3	10.6	7.0	6.7	6.9	7.2	6.9	7.1	4.6	2.8	3.4
13	10.4	8.9	9.7	6.8	6.3	6.6	7.3	7.0	7.2	2.8	2.5	2.7
14	10.3	8.8	9.7	6.5	5.8	6.2	7.2	6.9	7.1	2.6	2.4	2.5
15	10.5	10.2	10.4	6.2	4.8	5.4	7.0	6.6	6.8	2.8	2.3	2.6
16	10.7	10.4	10.5	6.1	5.0	5.6	6.5	5.7	6.0	2.8	2.7	2.8
17	10.8	10.6	10.7	6.5	6.1	6.3	6.2	5.4	5.9	2.9	2.7	2.8
18	10.9	10.7	10.8	6.6	6.3	6.4	6.3	5.6	5.9	2.9	2.7	2.8
19	10.8	10.5	10.7	6.4	6.0	6.3	6.3	5.2	5.6	2.9	2.7	2.8
20	10.8	10.4	10.6	6.1	5.8	5.9	5.7	5.3	5.6	2.8	2.5	2.7
21	10.8	10.4	10.6	5.9	5.6	5.8	5.7	5.5	5.6	2.7	2.4	2.6
22	10.6	10.3	10.5	6.0	5.8	5.9	5.7	5.1	5.5	2.5	2.0	2.3
23	10.4	10.1	10.3	5.9	5.6	5.8	5.6	5.1	5.3	2.3	2.0	2.1
24	10.4	10.1	10.3	5.8	4.5	5.5	5.6	4.7	5.1	2.1	1.8	1.9
25	10.5	10.2	10.3	5.6	4.6	5.4	5.4	4.5	5.0	2.1	1.8	1.9
26	10.3	10.1	10.2	5.7	5.4	5.6	5.5	5.0	5.3	2.0	1.7	1.9
27	10.5	10.1	10.2	5.8	5.6	5.7	5.7	5.3	5.4	2.0	1.7	1.8
28	10.6	10.3	10.5	5.8	5.4	5.6	5.8	5.4	5.6	2.1	1.8	1.9
29	---	---	---	5.6	4.8	5.3	6.0	5.4	5.8	2.1	1.9	2.0
30	---	---	---	5.3	4.0	4.8	5.9	5.3	5.7	2.2	1.9	2.1
31	---	---	---	5.0	3.6	4.5	---	---	---	2.3	2.0	2.1
AVG.	11.2	7.7	10.4	10.6	3.6	6.5	7.3	4.5	5.8	5.7	1.7	3.0

07367000 OUACHITA RIVER AT MONROE, LA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.3	1.7	2.0	---	---	---	3.8	3.5	3.6	1.9	1.2	1.6
2	2.3	1.9	2.0	---	---	---	4.0	3.5	3.7	1.8	1.3	1.6
3	2.0	1.7	1.7	---	---	---	4.7	3.8	4.3	1.9	0.3	1.2
4	1.8	1.5	1.6	---	---	---	5.5	4.6	4.9	2.5	1.6	2.0
5	1.8	1.5	1.6	---	---	---	6.5	5.6	6.2	1.8	1.3	1.6
6	1.6	1.3	1.5	---	---	---	6.7	6.2	6.4	---	---	---
7	1.8	1.5	1.6	---	---	---	6.4	6.1	6.2	---	---	---
8	2.0	1.7	1.8	---	---	---	6.3	6.0	6.1	6.2	5.6	5.8
9	2.1	1.9	2.0	---	---	---	6.1	5.6	5.8	6.4	5.8	6.1
10	2.0	1.5	1.8	---	---	---	5.2	5.3	5.5	6.6	6.3	6.4
11	1.7	0.9	1.4	---	---	---	5.3	4.4	5.0	6.4	6.2	6.3
12	1.5	1.1	1.3	---	---	---	4.7	3.7	4.2	6.6	6.1	6.4
13	1.2	0.9	1.1	---	---	---	5.0	4.5	4.7	6.3	5.7	5.8
14	1.2	0.9	1.0	---	---	---	5.2	4.6	5.0	6.3	5.6	6.0
15	1.0	0.7	0.9	---	---	---	5.2	4.8	5.0	6.6	6.2	6.4
16	1.0	0.7	0.9	2.1	1.8	2.0	4.9	4.3	4.5	6.7	6.5	6.6
17	1.2	0.8	1.0	2.6	2.1	2.4	4.7	4.1	4.4	6.6	6.1	6.4
18	1.1	0.7	0.9	2.7	2.5	2.5	4.4	4.0	4.1	6.1	5.5	6.0
19	1.0	0.6	0.9	2.8	2.6	2.7	4.3	3.8	4.1	6.0	5.2	5.7
20	1.3	0.7	1.0	3.4	2.8	3.0	4.5	4.0	4.2	---	---	---
21	1.5	1.2	1.4	4.1	3.3	3.7	4.6	3.8	4.2	---	---	---
22	1.7	1.5	1.6	4.3	4.1	4.2	4.7	3.8	4.4	---	---	---
23	1.8	1.6	1.7	4.6	4.3	4.5	5.0	4.2	4.5	---	---	---
24	1.8	1.5	1.6	4.5	4.3	4.4	4.2	3.0	3.7	---	---	---
25	1.8	1.3	1.5	4.6	4.0	4.3	3.9	3.0	3.6	---	---	---
26	1.4	1.1	1.2	4.1	3.2	3.7	3.9	2.7	3.4	---	---	---
27	---	---	---	3.4	2.1	2.6	3.6	2.8	3.3	---	---	---
28	---	---	---	2.0	1.6	1.8	3.6	2.8	3.3	---	---	---
29	---	---	---	1.8	1.3	1.5	3.0	2.5	2.8	---	---	---
30	---	---	---	2.6	1.9	2.3	2.8	1.4	2.2	---	---	---
31	---	---	---	3.9	2.6	3.2	1.2	0.6	0.9	---	---	---
AVG.	---	---	---	---	---	---	6.7	0.6	4.3	---	---	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	28.0	27.0	27.0	18.5	17.5	18.5	7.0	6.0	6.5	6.0	6.0	6.0
2	27.0	26.0	26.5	18.0	16.5	16.5	6.5	6.0	6.5	6.0	6.0	6.0
3	26.0	24.5	25.5	17.0	16.5	17.0	8.0	6.5	7.0	7.0	6.0	6.5
4	24.5	24.0	24.0	17.0	16.0	16.5	8.5	8.0	8.0	7.5	7.0	7.0
5	24.5	24.0	24.5	16.0	15.5	16.0	9.5	8.5	9.0	9.0	7.0	8.0
6	24.5	24.0	24.0	17.0	16.0	16.5	9.5	8.0	8.5	9.0	8.0	8.5
7	25.5	24.5	25.0	17.5	16.0	17.0	9.0	8.0	8.5	8.5	8.0	8.5
8	25.5	24.5	24.5	16.5	16.0	16.5	9.0	8.0	8.5	8.5	8.0	8.0
9	25.0	24.0	24.5	16.0	15.5	15.5	9.5	9.0	9.0	7.5	6.5	7.0
10	25.0	24.5	24.5	15.0	14.5	15.0	9.5	8.5	9.0	6.5	6.0	6.5
11	24.5	24.5	24.5	15.0	14.5	15.0	9.0	8.5	8.5	6.0	5.5	6.0
12	24.5	24.0	24.5	15.0	14.0	14.5	9.0	5.5	7.5	5.0	4.5	4.5
13	24.5	24.0	24.5	15.5	13.5	14.5	8.5	7.0	8.0	5.0	4.5	4.5
14	24.5	23.5	24.0	14.0	14.0	14.0	8.0	7.5	8.0	5.0	4.5	4.5
15	25.5	24.5	25.0	14.0	13.0	13.5	7.5	6.0	6.5	5.5	4.5	4.5
16	25.5	24.0	24.5	13.0	12.0	12.5	6.0	4.5	5.5	5.0	4.5	4.5
17	25.0	24.0	24.5	11.5	11.0	11.5	4.5	4.0	4.5	6.5	5.0	5.5
18	26.0	24.5	25.0	12.5	11.5	12.0	4.5	4.0	4.0	8.0	6.0	7.0
19	25.5	25.0	25.5	13.0	10.5	11.5	5.5	4.0	4.5	6.5	5.5	6.5
20	25.0	24.0	24.5	10.5	9.5	10.5	5.0	4.5	4.5	8.5	6.5	7.0
21	24.0	23.5	24.0	9.5	9.0	9.0	6.5	4.5	5.5	9.0	7.0	8.0
22	24.5	24.0	24.0	9.0	8.5	8.5	6.0	5.5	5.5	8.0	7.0	8.0
23	24.5	22.5	23.5	8.5	7.5	8.0	6.0	5.5	5.5	8.5	7.5	8.0
24	23.0	22.5	22.5	8.0	7.5	7.5	6.0	4.0	5.0	8.5	7.5	8.0
25	22.5	21.5	22.0	8.5	8.0	8.5	4.5	4.0	4.5	8.5	8.5	8.5
26	21.5	21.0	21.5	8.0	6.5	7.0	5.0	4.0	4.5	8.5	8.5	8.5
27	21.5	20.5	21.0	7.5	6.5	7.0	5.0	4.0	4.5	9.0	8.0	8.5
28	20.5	19.0	19.5	7.0	6.5	6.5	5.0	4.5	5.0	9.0	8.5	8.5
29	19.5	19.0	19.5	7.0	7.0	7.0	6.5	5.0	6.0	8.5	8.0	8.5
30	19.5	17.0	18.5	7.0	6.5	7.0	6.5	6.0	6.5	8.0	7.5	7.5
31	18.0	16.5	17.0	---	---	---	6.0	5.0	5.5	9.0	7.5	8.5
AVG.	28.0	16.5	23.5	18.5	6.5	12.5	9.5	4.0	6.5	9.0	4.5	7.0

07367000 OUACHITA RIVER AT MONROE, LA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.5	7.0	8.5	11.0	10.0	10.5	17.0	16.5	17.0	18.5	17.5	18.0
2	8.5	8.0	8.5	11.5	11.0	11.0	17.5	16.5	17.0	20.0	18.5	19.5
3	9.5	8.5	9.0	11.0	10.5	11.0	17.5	17.0	17.5	19.0	17.5	18.0
4	9.5	9.0	9.5	11.5	11.0	11.0	17.5	17.5	17.5	18.5	18.0	18.5
5	9.5	9.0	9.5	12.5	11.5	12.0	17.5	17.0	17.5	18.5	18.0	18.5
6	10.5	9.5	10.0	14.0	12.5	13.5	17.5	17.0	17.0	20.5	18.5	19.5
7	12.5	10.5	11.0	14.5	12.5	13.5	17.5	17.0	17.0	21.0	20.5	20.5
8	13.0	11.5	11.5	14.5	13.0	13.5	17.0	16.5	17.0	21.0	19.5	20.0
9	11.5	10.0	11.0	15.0	14.5	15.0	17.0	16.0	16.5	21.5	20.5	21.0
10	10.0	8.5	9.0	15.5	14.5	15.0	16.5	16.0	16.5	21.5	20.5	21.0
11	8.5	7.5	8.0	15.5	13.5	14.5	16.0	15.5	16.0	22.0	21.5	21.5
12	8.5	8.0	8.0	15.0	14.0	14.5	16.0	15.5	15.5	22.5	22.0	22.5
13	10.5	8.5	9.5	16.5	15.0	16.0	16.0	15.5	16.0	22.5	21.5	22.5
14	10.5	9.5	10.0	17.5	16.0	17.0	16.5	15.5	16.0	22.5	22.0	22.5
15	9.5	9.0	9.5	18.5	17.0	18.0	16.0	16.0	15.5	22.5	21.5	22.5
16	9.5	9.0	9.5	18.5	16.5	17.5	16.5	16.0	16.5	22.5	21.5	22.0
17	9.5	9.0	9.5	16.5	15.5	16.0	17.0	16.0	16.5	22.5	21.5	22.0
18	9.0	8.5	9.0	16.0	15.5	15.5	17.0	16.0	16.5	22.5	21.5	22.0
19	8.5	8.0	8.5	16.0	15.5	16.0	17.5	16.0	17.0	22.5	21.5	22.0
20	9.0	8.5	8.5	17.0	16.0	16.5	17.5	17.0	17.5	23.0	22.0	22.5
21	9.5	9.0	9.0	16.5	16.0	16.5	17.5	17.0	17.0	23.0	22.5	23.0
22	9.5	9.0	9.5	16.5	16.0	16.0	18.0	17.5	17.5	23.0	23.0	23.0
23	9.5	9.0	9.5	16.5	16.0	16.5	19.0	17.5	18.5	23.5	23.0	23.0
24	10.0	9.5	9.5	18.5	16.5	17.5	19.5	19.0	19.0	24.0	23.0	23.5
25	10.0	9.5	9.5	18.5	16.5	16.5	19.5	18.5	19.0	24.0	23.0	23.5
26	10.5	9.5	10.0	16.5	16.0	16.0	19.0	17.5	18.0	24.0	24.0	24.0
27	10.5	9.5	10.0	16.0	15.5	16.0	18.0	17.5	17.5	24.0	23.5	24.0
28	10.5	10.0	10.5	17.0	16.0	16.0	18.0	17.5	17.5	24.0	23.5	24.0
29	---	---	---	17.5	16.5	17.0	17.5	17.5	17.5	24.0	23.5	24.0
30	---	---	---	18.5	16.5	17.5	17.5	17.5	17.5	24.0	23.0	23.5
31	---	---	---	18.0	16.0	17.0	---	---	---	24.0	23.0	23.5
AVG.	13.0	7.0	9.5	18.5	10.0	15.0	19.5	15.5	17.0	24.0	17.5	22.0
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	24.0	24.0	24.0	28.5	27.5	28.0	30.5	30.0	30.5	32.0	31.0	32.0
2	24.5	24.0	24.5	29.5	28.0	29.0	30.5	30.0	30.0	32.0	31.5	31.5
3	24.5	24.0	24.5	30.0	29.0	29.5	30.0	30.0	30.0	32.0	31.5	31.5
4	25.0	24.5	24.5	30.5	29.5	30.0	30.0	29.5	30.0	32.5	32.0	32.5
5	25.0	24.5	25.0	31.0	30.0	30.5	30.0	29.0	29.5	32.0	30.5	31.0
6	25.0	24.5	25.0	30.5	30.0	30.5	30.5	30.5	30.5	31.5	30.0	30.0
7	25.0	24.0	24.5	30.5	30.0	30.5	30.5	30.5	30.5	30.5	29.5	29.5
8	25.5	24.5	25.0	30.5	29.5	30.0	30.5	30.5	30.5	29.5	29.0	29.0
9	26.0	25.0	25.5	30.0	29.0	29.5	31.0	30.0	30.5	29.5	29.0	29.0
10	26.0	25.0	26.0	30.5	29.5	30.0	31.0	30.5	31.0	29.5	29.0	29.0
11	26.5	25.5	26.0	30.5	30.0	30.5	31.5	31.0	31.5	29.5	29.0	29.0
12	26.5	26.0	26.5	30.5	29.5	30.0	31.5	31.5	31.5	29.0	28.5	28.5
13	26.5	26.0	26.0	30.0	29.0	30.0	32.0	31.5	31.5	28.5	28.0	28.5
14	27.0	26.5	26.5	30.0	29.0	29.5	32.0	31.5	31.5	28.5	28.0	28.0
15	26.5	25.5	26.0	29.5	29.0	29.5	32.0	31.5	31.5	28.5	28.0	28.0
16	26.5	26.0	26.0	29.5	29.0	29.0	32.0	31.5	32.0	28.0	28.0	28.0
17	26.5	26.0	26.5	29.5	29.0	29.5	32.0	32.0	32.0	28.0	28.0	28.0
18	27.0	26.0	26.5	29.5	29.0	29.0	32.0	31.5	32.0	28.0	27.5	28.0
19	27.0	26.5	27.0	30.5	29.0	29.5	32.0	31.5	32.0	27.5	27.0	27.0
20	27.5	26.5	27.0	30.0	29.0	29.5	32.0	31.5	31.5	27.0	27.0	27.0
21	28.0	27.0	27.5	30.0	29.0	28.5	32.0	31.5	32.0	27.0	27.0	27.0
22	28.0	27.0	27.5	30.0	29.5	29.0	32.0	31.5	32.0	27.5	26.5	27.0
23	27.5	26.5	27.0	30.0	29.0	28.5	31.5	31.5	31.5	27.5	27.0	27.5
24	27.5	26.5	27.0	29.5	28.5	29.0	32.0	31.5	31.5	27.5	27.0	27.5
25	27.5	27.0	27.5	30.0	29.0	29.5	32.5	31.5	32.0	28.0	27.0	27.5
26	27.5	27.0	27.5	30.0	30.0	30.0	32.5	32.0	32.0	28.0	27.0	27.5
27	28.0	27.0	27.5	30.0	30.0	30.5	32.0	31.5	32.0	28.0	27.5	27.5
28	28.0	27.0	28.0	30.5	30.0	30.0	32.0	31.5	32.0	28.5	28.0	28.0
29	28.0	27.0	28.0	30.5	30.0	30.0	32.0	31.5	32.0	28.5	28.0	28.5
30	28.5	28.0	28.0	30.5	30.0	30.5	32.0	31.5	31.5	29.0	28.0	28.5
31	---	---	---	30.5	30.5	30.5	32.5	31.5	32.0	---	---	---
AVG.	28.5	24.0	26.5	31.0	27.5	29.5	32.5	29.0	31.5	32.5	26.5	28.5

RED RIVER BASIN

07367515 OUACHITA RIVER AT MAIDCO, LA.

LOCATION.--Lat 32°24'48", long 92°06'19", in sec.1, T.16 N., R.3 E., Ouachita Parish, at pier on left bank at maidco, 100 yards west of U.S. Highway 165, and 6.3 miles south of U.S. Highway 165 and State Highway 15.

DRAINAGE AREA.--15,575 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1967 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NESIUM (Mg) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (SO ₄) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (CL) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT.								
17...	5.9	17	3.1	50	3.6	37	19	71
NOV.								
13...	7.1	9.6	1.9	14	2.6	17	9.4	27
DEC.								
13...	5.3	6.1	2.6	12	2.1	19	6.8	20
JAN.								
10...	8.3	4.9	1.6	7.5	2.1	12	8.4	14
FEB.								
13...	5.0	4.7	2.2	9.5	3.4	17	9.0	15
MAR.								
20	5.1	6.0	2.4	11	1.9	20	7.6	20
APR.								
03...	7.2	6.0	3.6	7.2	2.0	25	6.2	14
MAY								
23	3.6	4.6	1.6	4.6	2.0	18	4.6	8.8

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTIT- TUENTS) (MG/L)	SUS- PENDE SOLIDS (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT.									
17...	.2	.80	207	191	3	55	25	398	26.0
NOV.									
13...	.1	.20	112	81	--	32	18	147	14.0
DEC.									
13...	.2	.07	103	64	--	26	10	117	7.0
JAN.									
10...	.1	.02	73	53	34	19	9	84	4.5
FEB.									
13...	.3	.10	92	58	--	21	7	125	8.5
MAR.									
20...	.1	.09	79	64	41	25	9	237	15.5
APR.									
03...	.1	.14	82	59	14	30	9	88	17.0
MAY									
23...	.1	.20	66	39	--	18	4	73	23.0

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (MG/L)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	PHOS- PHATE (PO ₄) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
OCT.								
17...	50	--	6.4	4.8	4.6	28	--	.052
NOV.								
13...	--	--	6.9	6.4	2.8	850	.13	--
DEC.								
13...	--	--	6.5	8.4	2.6	--	.25	--
JAN.								
10...	--	30	6.5	9.6	2.1	44	.08	--
FEB.								
13...	100	--	6.6	9.1	2.0	40	.09	--
MAR.								
20...	120	--	6.4	6.7	5.3	10	.07	--
APR.								
03...	120	--	6.4	5.3	2.2	20	--	.11
MAY								
23...	40	--	6.2	4.6	1.3	--	--	--

07372200 LITTLE RIVER NEAR ROCHELLE, LA.

LOCATION.--Lat 31°45'15", long 92°20'40", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.14, T.9 N., R.1 E., La Salle-Grant Parish line, at gaging station at bridge on State Highway 500, 1.1 miles northeast of Zenoria, and 3.0 miles southeast of Rochelle.

DRAINAGE AREA.--1,899 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1958 to September 1959, October 1964 to September 1973.

EXTREMES.--1972-73:

Specific conductance: Maximum daily, 1,150 micromhos Oct. 24; minimum daily, 55 micromhos May 6, 7.

Period of record:

Specific conductance (1966-73): Maximum daily, 26,800 micromhos Dec. 4, 1965; minimum daily, 50 micromhos May 15-17, 1971.

REMARKS.--Conductance recorder with probe 2 ft from stream bottom; daily mean values are reported in the daily conductance table.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HC03) (MG/L)	DIS- SOLVED SULFATE (S04) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
OCT.											
17...	31	10	--	7.6	2.7	67	4.0	69	30	64	.2
NOV.											
29...	1000	--	500	--	--	--	--	--	--	--	--
DEC.											
01...	1040	--	--	--	--	--	--	--	--	--	--
13...	2600	2.7	170	5.8	.6	20	3.1	21	10	23	.1
21...	6760	--	--	--	--	--	--	--	--	--	--
JAN.											
09...	6050	3.1	190	4.3	.8	8.4	1.7	14	9.8	8.5	.1
FEB.											
13...	5220	--	350	--	--	--	--	--	--	--	--
MAR.											
21...	13000	2.7	--	4.0	.9	5.3	1.7	12	7.8	6.8	.1
APR.											
03...	6860	4.0	--	4.5	1.2	8.8	1.9	24	7.8	7.0	.2
MAY											
24...	450	0.3	510	5.4	1.1	8.4	2.1	28	7.0	7.6	.1
JUNE											
13...	290	11	200	6.2	2.1	29	2.8	15	21	39	.2
JULY											
27...	110	14	--	12	2.4	63	3.5	64	18	78	.1
AUG.											
30...	144	9.7	190	13	5.5	120	4.5	48	21	200	.2
SEP.											
12...	2350	18	--	7.2	.5	19	2.2	21	12	23	.2

DATE	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (MG/L)	PH
OCT.										
17...	.38	260	221	30	0	368	24.0	200	--	6.7
NOV.										
29...	--	--	--	--	--	--	8.0	--	21	--
DEC.										
01...	--	--	--	--	--	207	8.0	--	29	--
13...	.20	79	77	17	0	141	8.0	60	22	6.3
21...	--	--	--	--	--	91	7.0	--	23	--
JAN.										
09...	.20	54	44	14	3	75	5.5	70	45	6.3
FEB.										
13...	--	--	--	--	--	--	--	--	--	--
MAR.										
21...	.20	47	36	14	4	60	15.0	70	16	5.7
APR.										
03...	.20	75	48	16	0	81	17.0	60	8	6.2
MAY										
24...	.40	123	54	18	0	88	24.0	40	25	6.9
JUNE										
13...	.50	147	121	24	12	209	--	60	--	6.7
JULY										
27...	.50	243	225	40	0	400	28.5	80	35	6.8
AUG.										
30...	.40	400	401	55	16	740	27.0	140	--	7.7
SEP.										
12...	.20	142	93	20	2	142	25.5	100	33	6.4

RED RIVER BASIN

07372200 LITTLE RIVER NEAR ROCHELLE, IA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DATE	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	OIL AND GREASE (MG/L)
OCT. 17...	6.6	1.2	37	--	--	--	--	--	--	--
NOV. 29...	10.2	--	--	0	0	<10	<.5	0	40	6.0
FEB. 13...	--	--	--	2	0	<10	<.5	0	70	--
MAR. 21...	6.8	1.8	--	--	--	--	--	--	--	--
MAY 24...	6.6	1.9	--	--	--	--	--	--	--	--
AUG. 30...	5.5	3.0	--	0	0	<10	<.5	15	0	6.0
DATE	ALDRIN (UG/L)	LINDANE (UG/L)	CHLOR- DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR EPOXIDE (UG/L)
AUG. 30...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00
DATE	PCB (UG/L)	MALA- THION (UG/L)	PARA- THION (UG/L)	METHYL PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	DIAZ- INON (UG/L)		
AUG. 30...	.0	.00	.00	.00	.00	.00	.00	.08		

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	850	280	250	185	100	160	70	85	500	200	--	--
2	820	300	210	190	85	165	80	80	510	180	--	--
3	710	170	220	155	70	170	80	75	500	190	--	--
4	560	170	220	165	70	175	90	70	480	200	--	--
5	530	150	220	140	70	175	90	60	360	280	--	--
6	600	130	220	130	70	215	100	55	260	480	--	--
7	840	160	230	110	70	230	105	55	320	400	--	--
8	680	220	255	95	75	110	170	60	420	340	--	--
9	410	190	300	85	90	95	100	65	380	300	--	--
10	250	160	400	80	105	90	90	65	360	235	--	--
11	230	155	320	70	95	95	90	70	360	240	--	--
12	235	170	170	70	90	90	90	75	325	280	--	--
13	255	210	130	80	90	75	95	75	280	310	--	--
14	275	240	105	80	105	70	100	75	270	340	--	--
15	295	140	140	70	100	70	110	75	270	320	--	--
16	310	110	100	60	90	110	140	80	280	310	--	--
17	325	135	70	60	95	95	140	90	280	330	--	--
18	340	160	70	65	100	55	130	95	340	360	--	--
19	360	180	65	70	100	50	150	110	310	340	--	--
20	370	205	75	75	115	60	85	125	295	300	--	--
21	380	205	90	120	125	65	100	130	280	285	--	--
22	410	215	110	120	140	70	75	155	270	285	--	--
23	730	215	110	90	140	75	70	180	300	290	--	--
24	1,150	210	110	85	130	80	70	260	300	--	--	--
25	750	230	110	85	125	90	70	300	270	--	--	--
26	1,070	250	110	85	125	85	75	740	250	--	--	--
27	640	270	120	95	135	70	90	550	220	--	--	--
28	520	290	120	95	150	60	90	440	230	--	--	--
29	340	300	130	90	--	65	90	420	250	--	--	--
30	290	305	130	90	--	70	85	600	220	--	--	--
31	230	--	155	90	--	70	--	560	--	--	--	--
AVERAGE	547	201	156	99	102	103	97	189	323	--	--	--

RED RIVER BASIN

195

07373000 BIG CREEK AT POLLOCK, LA.
(Hydrologic bench-mark and pesticide station)

LOCATION.--Lat 31°32'10", long 92°24'30", in SW¼SE¼ sec.31, T.7 N., R.1 E., Grant Parish, at gaging station at bridge on U.S. Highway 165, 0.8 mile north of Pollock, and 1.3 miles downstream from Dyson Creek.

DRAINAGE AREA.--51 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1968-73.
Water temperatures: October 1964 to September 1972.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
OCT.											
18...	8.2	24	--	2.0	.5	5.0	1.9	16	.0	4.4	.0
NOV.											
13...	33	22	250	1.9	1.8	5.0	1.6	20	.0	3.3	.5
DEC.											
13...	125	6.9	290	2.8	.2	3.7	2.1	11	2.2	4.3	.1
JAN.											
09...	83	4.5	70	2.0	.5	2.9	1.0	8	2.6	2.7	.1
FEB.											
13...	48	8.0	170	2.1	.4	3.7	1.0	11	2.2	3.6	.0
MAR.											
21...	67	11	340	2.0	.2	3.2	1.3	12	.6	3.4	.0
APR.											
03...	53	11	350	1.5	.6	4.5	1.3	14	.6	4.0	.0
MAY											
24...	39	12	240	2.5	.1	4.2	1.0	14	.0	4.4	.0
JUNE											
13...	52	18	--	3.2	.5	8.0	1.3	25	.6	4.6	.1
JULY											
27...	59	16	90	2.1	.4	4.0	1.7	14	.2	4.2	.0
AUG.											
30...	28	19	190	2.2	1.6	4.0	1.7	12	4.2	6.2	.1
SEP.											
12	45	20	260	2.3	1.0	4.0	1.4	10	3.2	6.0	.1

DATE	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- CUBALT UNITS)	TUR- BID- ITY (MG/L)
OCT.									
18...	.09	46	46	7	0	42	22.0	40	--
NOV.									
13...	.07	84	46	12	0	42	17.0	40	18
DEC.									
13...	.09	51	28	8	0	42	9.5	40	10
JAN.									
09...	.07	53	21	7	0	34	5.5	30	21
FEB.									
13...	.10	35	26	7	0	37	12.5	20	19
MAR.									
21...	.10	67	28	6	0	34	14.5	40	9
APR.									
03...	.10	61	31	8	0	38	16.5	40	10
MAY									
24...	.10	57	32	6	0	37	22.0	50	10
JUNE									
13...	.20	61	49	10	0	38	--	40	--
JULY									
27...	.20	45	36	7	0	36	25.0	40	34
AUG.									
30...	.10	54	46	12	2	36	24.0	30	28
SEP.									
12...	.20	60	44	10	1	41	24.5	50	15

RED RIVER BASIN

07373000 BIG CREEK AT POLLOCK, LA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DATE	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	PHOS- PHATE (PO4) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)
OCT. 18...	6.7	9.6	3.1	9	--	.036	--	--	--
NOV. 13...	7.1	8.8	--	--	--	--	--	--	--
DEC. 13...	5.9	10.8	2.0	--	--	--	960	720	260
JAN. 09...	5.8	10.7	2.2	--	.00	--	3100	400	480
FEB. 13...	5.7	10.1	1.7	--	--	--	450	100	170
MAR. 21...	5.8	9.9	2.4	--	--	--	3600	220	50
APR. 03...	6.3	8.5	1.7	--	--	--	5400	55	70
MAY 24...	5.9	8.6	1.2	--	--	--	390	350	140
JUNE 13...	6.9	--	--	--	--	--	--	--	--
JULY 27...	6.1	7.9	2.8	--	--	--	8000	--	500
AUG. 30...	6.3	7.6	5.0	--	--	--	--	--	--
SEP. 12...	6.5	7.4	1.8	--	--	--	1200	900	100

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CU) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	CYANIDE (CN) (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)
OCT. 18...	--	--	--	--	--	--	--	--	--
NOV. 13...	--	--	--	--	--	--	--	--	--
DEC. 13...	0	1	5	<.5	7	0	--	--	--
JAN. 09...	--	--	--	--	--	--	--	--	--
FEB. 13...	0	0	<10	<.5	0	0	--	--	--
MAR. 21...	--	--	--	--	--	--	--	--	--
APR. 03...	--	--	--	--	--	--	--	--	--
MAY 24...	0	0	<10	<.5	0	0	--	--	--
JUNE 13...	--	--	--	--	--	--	--	--	--
JULY 27...	--	--	--	--	--	--	--	--	--
AUG. 30...	0	1	<10	<.5	0	0	--	--	--
SEP. 12...	--	--	--	--	--	--	--	--	--

DATE	ALDRIN (UG/L)	LINDANE (UG/L)	CHLOR- DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA- CHLOR (UG/L)
AUG. 30...	.00	.01	.0	.00	.00	.00	.00	.00	.00

DATE	HEPTA- CHLOR EPOXIDE (UG/L)	PCB (UG/L)	MALA- THION (UG/L)	PARA- THION (UG/L)	METHYL PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	DIAZ- INON (UG/L)
AUG. 30...	.00	.0	.00	.00	.00	.00	.00	.00	.01

LOWER MISSISSIPPI RIVER BASIN

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MISSISSIPPI RIVER MAIN STEM

07373420 MISSISSIPPI RIVER NEAR ST. FRANCISVILLE, LA.

LOCATION.--Lat 30°45'30", long 91°23'45", in lot 31, T.3 S., R.11 E., West Feliciana Parish, at ferry at State Highway 10 crossing, 2.0 miles southwest of St. Francisville.

DRAINAGE AREA.--1,243,000 sq mi, arbitrarily determined.

PERIOD OF RECORD.--Chemical analyses: August 1954 to September 1973.

Water temperatures: August 1954 to September 1972 (discontinued).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
JAN.												
09...	6.2	30	30	11	11	2.6	100	42	14	.2	.41	176
16...	--	10	--	--	--	--	104	40	14	--	.45	178
24...	--	10	--	--	--	--	109	35	15	--	--	--
29...	--	20	--	--	--	--	119	40	27	--	.45	236
FEB.												
06...	7.1	20	34	9.5	13	2.6	106	35	18	.2	.34	214
13...	--	10	--	--	--	--	115	41	17	--	.50	206
19...	--	20	--	--	--	--	112	43	18	--	.50	216
27...	--	30	--	--	--	--	108	37	13	--	.40	202
MAR.												
05...	8.8	40	33	9.4	12	2.3	112	39	14	.1	.60	196
15...	--	70	--	--	--	--	128	38	28	--	.50	239
19...	--	20	--	--	--	--	110	38	20	--	.75	218
29...	--	50	--	--	--	--	100	30	16	--	.47	188
APR.												
03...	7.0	80	33	9.9	11	2.8	106	34	15	.2	.43	211
11...	--	30	--	--	--	--	103	33	14	--	.56	182
17...	--	50	--	--	--	--	105	34	14	--	.52	204
24...	--	50	--	--	--	--	122	37	16	--	--	200
MAY												
03...	8.8	20	33	7.9	11	2.5	104	35	14	.2	.43	188
08...	--	40	--	--	--	--	103	28	15	--	.54	170
17...	--	20	--	--	--	--	107	33	13	--	.47	173
30...	--	10	--	--	--	--	118	36	14	--	.80	202
JUNE												
06...	--	20	--	--	--	--	125	36	14	--	.88	199
13...	4.5	60	34	10	16	2.7	118	41	17	.5	.60	213
20...	--	20	--	--	--	--	121	36	14	--	.95	202
27...	--	20	--	--	--	--	132	36	14	--	.90	196
JULY												
02...	5.9	0	38	11	15	2.8	138	42	15	.2	.90	227
10...	--	0	--	--	--	--	148	41	16	--	.80	244
18...	--	0	--	--	--	--	148	43	15	--	.90	245
AUG.												
01...	--	10	--	--	--	--	162	50	17	--	1.1	251
07...	--	0	--	--	--	--	148	48	20	--	1.3	222
15...	7.2	40	42	12	14	3.2	144	42	14	.2	1.2	214
22...	--	0	43	14	--	--	156	50	17	--	1.1	268
29...	--	0	42	13	--	--	154	51	16	--	.75	247
SEP.												
04...	--	0	40	12	--	--	145	48	17	--	.78	268
12...	1.8	0	44	14	20	3.3	162	52	19	.2	.61	265
18...	--	0	44	14	--	--	168	54	21	--	.28	273
28...	--	0	--	--	--	--	164	49	19	--	.50	231

LOWER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER MAIN STEM

07373420 MISSISSIPPI RIVER NEAR ST. FRANCISVILLE, LA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	SUS- PENDED SOLIDS (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (MG/L)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)
JAN.												
09...	168	62	120	39	286	5.0	15	36	7.1	10.9	2.4	.023
16...	--	218	120	35	297	4.5	20	110	7.2	11.0	4.1	.091
24...	--	--	120	31	303	6.5	20	70	7.2	10.8	3.0	.13
29...	--	192	130	32	373	6.0	20	98	7.1	11.0	3.9	.14
FEB.												
06...	173	156	120	37	299	7.0	25	100	7.5	10.8	3.8	.008
13...	--	90	160	66	327	6.5	15	63	7.2	11.1	4.5	.038
19...	--	220	130	36	327	6.0	15	81	7.3	11.0	3.5	.046
27...	--	274	120	31	284	6.5	10	70	7.2	11.1	3.0	.052
MAR.												
05...	176	122	120	29	300	9.0	15	70	7.2	11.2	4.1	.028
15...	--	194	140	33	386	16.0	20	99	7.2	8.6	2.2	.068
19...	--	295	120	33	321	13.0	30	54	7.1	9.3	2.4	.086
29...	--	197	120	34	282	13.0	25	85	7.1	8.4	2.3	.038
APR.												
03...	167	87	120	36	261	15.0	25	27	7.1	8.5	2.3	.041
11...	--	98	120	32	290	15.0	10	25	7.0	8.3	4.9	.029
17...	--	98	120	31	296	14.0	10	22	7.0	9.5	2.4	.022
24...	--	112	130	30	326	16.5	10	54	7.0	8.7	2.7	.033
MAY												
03...	165	83	120	30	292	19.5	--	63	7.0	8.2	2.0	.027
08...	--	127	110	25	270	19.0	--	81	6.7	7.6	1.4	.039
17...	--	96	120	28	294	--	10	72	7.0	7.6	2.5	.024
30...	--	56	120	26	305	22.5	10	58	7.1	7.4	2.5	.042
JUNE												
06...	--	87	130	27	325	23.0	10	24	7.2	6.6	.6	.051
13...	186	87	130	30	331	24.5	10	19	7.0	6.1	--	.19
20...	--	44	120	23	325	26.0	10	50	7.4	6.7	1.3	.061
27...	--	101	140	28	340	28.0	5	19	7.1	5.9	2.7	.026
JULY												
02...	202	89	140	29	352	27.5	10	60	8.0	6.5	1.0	.059
10...	--	102	150	31	387	28.5	10	35	8.1	6.1	1.2	.016
18...	--	92	160	38	403	29.0	10	70	7.7	6.4	.4	.10
AUG.												
01...	--	31	170	36	413	30.0	10	53	7.6	6.2	3.9	.088
07...	--	265	160	39	379	27.5	15	79	7.3	6.4	1.2	.069
15...	211	123	150	36	378	28.0	20	28	7.5	5.6	--	--
22...	--	80	170	37	415	28.5	8	30	7.7	6.7	.6	--
29...	--	107	160	32	404	27.5	20	35	7.8	5.7	.6	--
SEP.												
04...	--	63	150	30	386	28.0	20	26	7.3	6.7	3.1	--
12...	237	48	170	35	434	26.5	10	29	7.6	8.0	1.5	--
18...	--	47	170	30	440	27.0	20	26	7.9	7.3	1.5	--
28...	--	91	170	35	410	25.5	15	48	7.8	7.3	.8	.030

LOWER MISSISSIPPI RIVER BASIN

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MISSISSIPPI RIVER MAIN STEM

07373420 MISSISSIPPI RIVER NEAR ST. FRANCISVILLE, LA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DATE	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CHLO- MIUM (CD) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	CYANIDE (CN) (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)
JAN.											
09...	520	270	1	0	<10	<.5	8	10	.00	8.0	0
16...	8000	1200	2	0	<10	5.0	0	40	.00	--	0
24...	450	450	0	0	<10	<.5	0	140	.00	--	1
29...	2600	260	--	0	<10	1.0	0	30	.00	--	4
FEB.											
06...	600	500	2	0	<10	<.5	0	70	.00	5.0	0
13...	960	110	1	0	<10	<.5	<5	10	.00	--	7
19...	1200	150	0	0	<10	<.5	<5	60	.00	--	0
27...	1500	300	2	0	<10	<.5	<5	10	.00	--	0
MAR.											
05...	1000	450	0	0	<10	<.5	5	0	.00	.0	1
15...	4700	260	0	0	<10	<.5	<5	10	.00	.0	0
19...	2000	200	0	0	<10	1.2	0	20	.00	5.0	0
29...	3600	120	0	0	<10	<.5	0	30	.00	--	3
APR.											
03...	6000	390	0	1	<10	<.5	6	10	.00	.0	0
11...	1500	300	0	0	<10	.5	0	0	.00	--	0
17...	1100	90	0	0	<10	<.5	0	0	.00	--	0
24...	2100	420	0	0	<10	<.5	0	20	.00	--	0
MAY											
03...	800	90	0	0	<10	<.5	0	0	.00	--	1
08...	--	--	0	0	<10	<.5	0	0	.00	1.0	0
17...	--	--	0	0	<10	<.5	0	0	.00	--	7
30...	1300	150	0	0	<10	<.5	0	10	.00	--	0
JUNE											
06...	6700	360	0	0	<10	<.5	0	20	.00	1.0	0
13...	1700	100	0	0	<10	<.5	0	40	.00	--	0
20...	--	--	0	0	<10	<.5	<5	30	.00	--	0
27...	1400	250	0	0	<10	<.5	0	0	.00	--	7
JULY											
02...	5700	280	0	0	<10	<.5	<5	0	.00	.0	6
10...	1500	280	0	0	<10	<.5	0	0	.00	--	0
18...	18000	16000	0	0	<10	<.5	0	0	.00	--	0
AUG.											
01...	2400	1400	0	1	<10	<.5	0	0	.01	--	0
07...	3600	1000	0	0	<10	<.5	0	0	.01	3.0	1
15...	14000	2500	0	0	<10	<.5	0	0	.00	--	0
22...	2500	--	0	0	<10	<.5	0	0	.00	--	1
29...	1500	1200	0	0	<10	<.5	0	0	.00	--	0
SEP.											
04...	1400	250	0	0	<10	<.5	0	20	.00	.0	0
12...	400	90	0	0	<10	<.5	0	0	.00	--	0
18...	10000	160	0	0	<10	<.5	0	0	.00	--	0
28...	1700	0	0	0	<10	<.5	0	0	.00	--	0

LOWER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER MAIN STEM

07373423 MISSISSIPPI RIVER BELOW ST. FRANCISVILLE, LA.

LOCATION.--Lat 30°42'05", long 91°20'38", in lot 49, T.4 S., R.11 E., West Feliciana Parish at Crown Zellerback Corp. paper mill, 5.7 miles southeast of St. Francisville.

DRAINAGE AREA.--1,243,000 sq mi, arbitrarily determined.

PERIOD OF RECORD.--Chemical analyses: November 1968 to September 1973.

Water temperatures: October 1969 to September 1973.

REMARKS.--Continuous recorder at this station.

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	432	349	---	346	---	---	294	---	---	428	406
2	372	423	342	---	333	---	---	302	317	---	422	400
3	369	437	347	---	335	---	---	309	321	353	423	397
4	367	453	347	---	325	---	271	299	326	352	440	397
5	377	451	348	---	326	---	269	292	330	355	448	401
6	383	462	346	---	---	---	262	283	331	362	428	400
7	375	482	351	---	---	---	253	289	325	370	388	408
8	372	497	371	---	---	---	254	288	328	376	357	410
9	374	479	389	---	---	---	259	290	331	380	343	414
10	372	453	400	---	---	---	255	289	333	383	341	423
11	377	440	400	---	---	---	---	289	334	383	347	431
12	384	430	390	---	---	---	---	---	333	391	355	433
13	386	412	353	---	324	---	---	---	332	398	364	428
14	396	416	341	---	320	---	---	---	---	395	375	430
15	399	414	326	285	326	---	---	---	---	392	381	434
16	400	390	314	280	323	---	---	301	---	396	386	440
17	405	370	301	281	307	---	---	299	---	386	390	441
18	412	361	292	284	323	---	---	299	---	380	392	441
19	417	360	287	281	328	---	---	301	---	385	399	437
20	419	363	261	277	331	---	---	302	---	391	406	434
21	422	376	274	280	328	---	---	299	---	396	412	437
22	429	387	270	284	310	---	---	294	---	393	415	442
23	433	372	281	287	305	---	---	299	---	387	414	449
24	433	370	---	293	300	---	---	308	---	383	420	454
25	426	371	---	319	312	---	---	302	---	385	421	450
26	422	373	---	339	306	---	---	321	---	383	415	444
27	420	378	---	358	300	---	318	324	---	381	411	443
28	427	372	---	366	276	281	315	318	---	382	411	442
29	434	365	---	350	---	274	313	310	---	389	411	436
30	442	357	---	356	---	262	311	309	---	406	412	438
31	440	---	---	351	---	---	---	---	---	424	405	---
AVG.	403	408	---	---	---	---	---	300	---	384	399	428

07373423 MISSISSIPPI RIVER BELOW ST. FRANCISVILLE, LA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

OCTOBER				NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.9	7.7	7.8	11.5	11.0	11.4	---	---	---
2	6.4	6.3	6.3	8.1	7.8	8.0	11.5	11.3	11.4	---	---	---
3	6.3	6.2	6.2	8.2	8.0	8.1	11.6	11.4	11.5	---	---	---
4	6.1	5.9	6.0	8.2	8.0	8.1	12.0	11.5	11.6	---	---	---
5	6.2	5.8	6.1	8.2	8.1	8.2	11.6	11.4	11.5	---	---	---
6	6.2	6.0	6.1	8.2	7.8	8.0	11.9	11.4	11.6	---	---	---
7	6.0	5.8	5.9	7.9	7.4	7.7	11.9	11.8	11.8	---	---	---
8	6.1	6.0	6.1	7.4	6.8	7.1	11.9	11.7	11.1	---	---	---
9	6.2	6.1	6.1	7.6	6.8	7.2	11.5	10.5	10.9	---	---	---
10	6.2	6.0	6.1	7.7	7.5	7.6	11.0	10.7	10.8	---	---	---
11	6.1	5.9	6.0	8.0	7.7	7.5	11.0	10.9	11.0	---	---	---
12	6.0	5.9	6.0	7.9	7.2	7.4	11.1	10.7	10.9	---	---	---
13	6.1	6.0	6.0	7.5	7.2	7.4	11.2	11.1	11.2	---	---	---
14	6.1	5.9	6.0	7.6	6.8	7.3	11.1	10.9	11.0	---	---	---
15	6.0	5.8	5.9	7.8	7.0	7.3	11.4	11.1	11.2	11.2	10.8	11.0
16	6.3	5.8	6.2	8.0	7.0	7.4	11.4	11.3	11.4	11.3	11.1	11.2
17	6.6	6.4	6.5	8.5	7.8	8.0	11.5	11.3	11.4	11.3	11.1	11.2
18	6.9	6.7	6.8	9.2	8.5	8.8	11.5	11.3	11.4	11.3	10.7	11.2
19	7.2	6.9	7.1	9.9	9.1	9.3	11.4	11.3	11.4	11.3	11.2	11.2
20	7.5	7.2	7.4	9.5	9.4	9.4	12.0	11.2	11.6	12.2	11.3	11.9
21	7.6	7.5	7.5	9.6	9.5	9.6	12.0	11.6	11.7	11.5	11.3	11.4
22	7.6	7.5	7.5	9.7	9.6	9.7	11.7	11.6	11.6	11.4	11.2	11.3
23	7.8	7.6	7.7	9.6	9.6	9.6	11.6	11.4	11.5	11.2	11.0	11.1
24	7.8	7.6	7.7	9.6	9.5	9.6	---	---	---	11.0	10.8	10.9
25	8.0	7.8	7.9	9.6	9.5	9.6	---	---	---	11.0	10.9	10.9
26	8.0	7.8	8.0	9.8	9.4	9.6	---	---	---	11.0	10.9	10.9
27	8.0	7.9	8.0	10.0	9.5	9.7	---	---	---	10.9	10.5	10.7
28	7.9	7.8	7.9	10.1	9.7	9.8	---	---	---	10.9	10.7	10.8
29	8.1	7.8	8.0	10.5	9.7	10.2	---	---	---	11.0	10.6	10.9
30	8.1	7.9	8.0	11.0	10.4	10.8	---	---	---	11.0	10.8	10.9
31	8.0	7.8	7.9	---	---	---	---	---	---	10.9	10.8	10.8
AVG.	8.1	5.8	6.8	11.0	6.8	8.5	---	---	---	---	---	---
FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.7	10.5	10.6	---	---	---	---	---	---	---	---	---
2	10.8	10.7	10.7	---	---	---	---	---	---	---	---	---
3	10.8	10.6	10.7	---	---	---	---	---	---	---	---	---
4	10.7	10.6	10.6	---	---	---	8.7	8.5	8.6	---	---	---
5	11.1	10.6	10.8	---	---	---	8.8	8.5	8.7	---	---	---
6	11.1	10.9	11.0	---	---	---	8.7	8.1	8.4	---	---	---

LOWER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER MAIN STEM

07373423 MISSISSIPPI RIVER BELOW ST. FRANCISVILLE, LA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	6.2	6.0	6.1	6.3	6.1	6.2
2	6.4	6.2	6.2	---	---	---	6.0	5.8	5.9	6.3	6.1	6.3
3	6.2	6.0	6.1	6.3	6.2	6.2	5.9	5.6	5.8	6.4	6.1	6.2
4	6.3	5.8	6.0	6.2	5.9	6.1	5.8	5.6	5.8	6.5	6.0	6.2
5	6.3	6.0	6.2	6.3	6.2	6.2	5.7	5.5	5.6	6.7	6.6	6.5
6	6.2	5.8	6.1	6.3	6.3	6.3	5.8	5.6	5.7	6.8	6.7	6.7
7	6.7	6.7	6.7	6.3	6.3	6.3	6.1	5.6	5.9	6.8	6.7	6.7
8	6.8	6.7	6.8	6.4	6.3	6.3	6.1	5.9	6.0	7.1	6.5	6.7
9	6.8	6.6	6.7	6.3	6.2	6.3	6.0	5.9	6.0	7.1	6.8	7.0
10	6.7	6.5	6.6	6.4	6.2	6.3	6.0	5.8	5.9	6.9	6.8	6.9
11	6.6	6.5	6.6	6.7	6.4	6.6	6.0	5.8	5.9	7.0	6.8	6.9
12	6.7	6.4	6.6	6.6	6.3	6.4	5.9	5.8	5.9	7.1	6.7	6.9
13	6.7	6.4	6.6	6.5	5.9	6.1	5.9	5.7	5.8	6.9	6.4	6.5
14	6.6	6.4	6.5	6.4	5.9	6.0	5.8	5.5	5.6	6.9	6.6	6.7
15	---	---	---	6.1	6.0	6.0	5.7	5.5	5.6	7.2	6.8	7.0
16	---	---	---	6.3	6.0	6.1	5.7	5.5	5.6	7.6	6.8	7.0
17	---	---	---	6.7	6.0	6.0	5.6	5.5	5.6	7.1	6.7	7.0
18	---	---	---	6.7	6.4	6.6	5.8	5.6	5.7	7.0	6.7	6.9
19	---	---	---	6.7	6.5	6.6	5.7	5.6	5.6	7.0	6.8	6.9
20	---	---	---	6.7	6.4	6.6	5.7	5.6	5.6	7.2	6.7	7.0
21	---	---	---	6.5	6.0	6.3	5.7	5.5	5.6	7.2	7.1	7.2
22	---	---	---	6.3	6.0	6.2	5.9	5.8	5.9	7.2	7.0	7.1
23	---	---	---	6.2	5.3	5.8	5.8	5.5	5.7	7.2	6.9	7.0
24	---	---	---	6.4	5.9	6.0	5.9	5.6	5.7	---	---	---
25	---	---	---	6.5	6.3	6.4	5.9	5.8	5.8	---	---	---
26	---	---	---	6.6	6.3	6.5	5.9	5.8	5.8	---	---	---
27	---	---	---	6.4	6.2	6.3	5.9	5.7	5.8	---	---	---
28	---	---	---	6.5	6.3	6.4	6.0	5.7	5.8	---	---	---
29	---	---	---	6.4	6.2	6.4	6.2	5.8	6.0	---	---	---
30	---	---	---	6.6	6.3	6.4	6.3	6.1	6.2	---	---	---
31	---	---	---	6.4	6.0	6.2	6.3	6.1	6.2	---	---	---
AVG.	---	---	---	6.7	5.3	6.3	6.3	5.5	5.8	---	---	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	16.5	9.0	---	6.5	---	---	---	---	---	30.0	28.5
2	25.0	16.5	9.0	---	6.5	---	---	18.0	22.5	---	29.5	28.0
3	24.5	16.5	8.5	---	6.5	---	---	18.5	23.0	28.5	29.0	27.5
4	24.5	17.0	8.5	---	7.0	---	15.0	18.5	23.0	28.5	29.0	27.0
5	24.5	16.5	9.0	---	7.0	---	15.0	18.5	23.5	28.0	28.5	27.0
6	24.5	16.5	9.0	---	7.5	---	14.5	19.0	23.5	28.0	28.5	27.5
7	24.0	17.0	9.0	---	8.0	---	14.5	19.0	23.5	28.5	28.5	27.5
8	23.5	16.5	9.0	---	7.5	---	14.5	19.5	23.5	28.5	28.5	27.5
9	23.5	16.5	9.0	---	7.0	---	14.5	19.5	23.0	28.5	28.5	27.5
10	23.5	16.0	9.0	---	7.0	---	14.0	20.0	24.0	28.5	29.0	27.5
11	23.0	15.5	8.5	---	6.5	---	---	20.0	24.0	28.5	29.0	28.0
12	23.0	15.0	8.0	---	6.5	---	---	---	24.0	28.5	29.0	28.0
13	23.0	15.0	7.5	---	6.5	---	---	---	24.0	28.5	29.0	28.0
14	23.0	14.0	7.0	---	6.5	---	---	---	---	28.5	29.0	28.0
15	23.0	14.0	6.5	4.0	6.5	---	---	---	---	28.5	29.0	28.5
16	23.0	13.5	5.5	4.0	6.0	---	---	19.5	---	24.0	29.0	28.0
17	22.5	13.0	5.0	4.5	6.0	---	---	19.5	---	29.0	29.0	28.0
18	22.5	13.0	5.0	5.0	6.0	---	---	19.5	---	29.0	29.0	28.0
19	22.5	12.5	5.5	5.0	5.5	---	---	20.0	---	29.0	29.0	27.0
20	21.0	11.5	6.0	5.5	6.0	---	---	20.0	---	29.0	29.0	27.0
21	21.0	11.0	6.5	6.5	6.0	---	---	20.0	---	29.0	29.0	27.0
22	20.5	10.5	6.5	6.5	6.0	---	---	20.5	---	29.0	29.0	26.5
23	20.0	10.0	6.0	6.5	6.0	---	---	21.0	---	29.5	28.5	26.5
24	19.0	9.5	---	7.0	6.0	---	---	21.0	---	29.0	29.0	26.5
25	18.5	9.5	---	7.0	6.0	---	---	21.0	---	29.5	29.0	26.0
26	17.5	9.0	---	7.5	6.5	---	17.0	21.5	---	29.5	29.0	26.0
27	17.0	9.0	---	7.0	7.0	---	17.0	22.0	---	29.5	28.5	26.0
28	15.5	9.0	---	7.0	---	---	17.5	22.0	---	30.0	28.5	25.5
29	15.0	10.0	---	6.5	---	---	17.5	22.0	---	30.0	28.5	25.5
30	15.0	10.0	---	6.0	---	---	18.0	---	---	30.0	28.5	25.5
31	15.0	---	---	6.0	---	---	---	---	---	30.0	29.0	---
AVG.	21.5	13.5	---	---	6.5	---	---	---	---	29.0	29.0	27.0

LOWER MISSISSIPPI RIVER BASIN

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MISSISSIPPI RIVER MAIN STEM

07374120 MISSISSIPPI RIVER AT PIAQUEMINE, LA.

LOCATION.--Lat 30°17'00", long 91°13'21", T.9 S., R.12 E., St. Helena meridian, Iberville Parish, at west bank ferry landing at Plaquemine.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Chemical analyses: January to September 1973.

CHEMICAL ANALYSES, JANUARY TO SEPTEMBER 1973

DATE	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
JAN.												
11...	7.5	40	32	11	11	3.2	108	42	16	.2	.38	202
18...	--	150	--	--	--	--	104	36	22	--	.47	214
26...	--	20	--	--	--	--	60	23	14	--	--	--
FEB.												
01...	--	10	--	--	--	--	123	42	26	--	.45	224
08...	5.1	10	33	10	16	2.6	110	36	21	.2	.34	224
15...	--	10	--	--	--	--	117	40	23	--	.50	216
22...	--	--	--	--	--	--	112	41	20	--	.40	216
MAR.												
01...	--	50	--	--	--	--	111	36	18	--	.40	206
09...	12	40	35	11	17	2.6	124	39	23	.1	.50	222
15...	--	50	--	--	--	--	132	42	35	--	.38	244
21...	--	40	--	--	--	--	107	35	24	--	.50	223
30...	--	30	--	--	--	--	105	33	21	--	.43	198
APR.												
02...	9.8	70	34	8.0	14	2.0	106	35	19	.2	.43	207
12...	--	30	--	--	--	--	106	34	19	--	.63	196
17...	--	50	--	--	--	--	114	34	19	--	.50	213
26...	--	20	--	--	--	--	117	37	20	--	.52	212
MAY												
04...	6.6	140	32	8.5	12	2.5	104	31	16	.3	.45	206
10...	--	20	--	--	--	--	105	27	13	--	.41	180
17...	--	0	--	--	--	--	113	32	16	--	.47	181
23...	--	20	--	--	--	--	112	35	18	--	.93	197
30...	--	20	--	--	--	--	118	36	15	--	1.0	215
JUNE												
08...	--	20	--	--	--	--	125	37	19	--	.90	204
13...	6.0	30	35	9.6	18	2.7	120	36	21	.5	.90	216
20...	--	20	--	--	--	--	121	37	18	--	.93	210
27...	--	40	--	--	--	--	132	36	19	--	1.0	224
JULY												
04...	5.4	0	34	11	20	2.8	134	41	22	.2	1.1	234
11...	--	10	--	--	--	--	149	41	22	--	.80	249
17...	--	20	--	--	--	--	147	43	24	--	.90	263
25...	--	0	--	--	--	--	144	46	24	--	1.2	264
AUG.												
01...	--	10	--	--	--	--	164	47	24	--	1.0	263
08...	--	50	--	--	--	--	144	49	28	--	1.3	202
15...	7.1	10	41	12	20	3.2	136	41	23	.3	1.5	226
22...	--	0	43	13	--	--	156	49	25	--	.95	293
31...	--	10	43	13	--	--	149	52	27	--	.82	267
SEPT.												
03...	--	0	41	13	--	--	145	54	27	--	.76	291
14...	2.1	0	43	13	24	3.3	153	49	26	.2	.05	283
19...	--	0	43	13	--	--	167	54	34	--	.46	289
25...	--	30	--	--	--	--	172	54	28	--	.50	280

LOWER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER MAIN STEM

07374120 MISSISSIPPI RIVER AT PLAQUEMINE, LA.--Continued

CHEMICAL ANALYSES, JANUARY TO SEPTEMBER 1973--Continued

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	SUS- PENDED SOLIDS (MG/L)	HARD- NESS (CA+MG) (MG/L)	NOV- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCTI- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (MG/L)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	DIS- SOL- VED PHOS- PHORUS (P) (MG/L)
JAN.												
11...	175	184	130	37	326	5.0	10	29	7.1	11.2	4.6	.029
18...	--	212	120	35	322	5.0	20	90	7.1	11.3	--	.052
26...	--	344	70	21	185	7.0	15	62	7.3	11.0	1.7	.31
FEB.												
01...	--	212	130	29	377	7.5	25	100	7.3	10.6	3.8	.045
08...	179	148	120	34	315	7.5	20	75	7.5	10.6	2.0	.008
15...	--	156	140	42	349	7.0	20	38	7.5	10.8	4.0	.033
22...	--	154	140	42	325	6.0	20	84	7.1	10.9	2.8	.11
MAR.												
01...	--	150	120	29	298	7.0	15	76	7.2	11.2	2.0	.039
09...	203	162	130	32	349	11.0	15	90	7.1	9.8	4.4	.033
15...	--	188	140	36	414	14.0	15	92	7.2	9.3	1.9	.060
21...	--	134	120	34	323	14.0	25	130	7.4	8.2	4.8	.052
30...	--	106	120	29	300	14.5	25	35	7.3	8.1	1.5	.034
APR.												
02...	177	154	120	31	279	14.0	20	42	7.1	8.0	1.6	.039
12...	--	161	120	31	308	14.0	20	77	7.0	9.6	4.2	.023
17...	--	107	120	27	309	15.0	15	73	7.2	8.4	3.1	.013
26...	--	136	130	33	332	17.0	10	54	7.1	8.0	2.5	.023
MAY												
04...	162	113	120	30	301	18.0	--	79	7.0	7.7	1.4	.029
10...	--	162	110	24	280	20.0	--	84	6.5	8.6	6.4	.016
17...	--	111	120	25	304	--	15	60	7.1	--	--	.024
23...	--	53	120	26	313	22.0	15	60	7.1	7.9	4.4	.022
30...	--	120	120	26	313	22.0	15	23	7.1	6.5	.8	.030
JUNE												
08...	--	77	130	27	341	23.5	10	64	7.3	6.4	--	.046
13...	192	98	130	29	344	24.0	20	60	7.1	7.3	3.2	.028
20...	--	75	130	30	345	27.0	10	13	7.4	6.2	1.2	.052
27...	--	91	140	28	347	27.0	10	25	7.5	6.1	1.4	.036
JULY												
04...	212	108	140	32	369	28.5	10	70	7.4	7.5	2.3	.024
11...	--	42	150	32	402	29.0	10	56	7.4	5.7	--	.024
17...	--	74	150	33	414	32.0	5	42	7.6	6.1	.7	.057
25...	--	183	160	43	418	29.0	15	73	7.3	6.1	1.2	.091
AUG.												
01...	--	100	170	34	435	30.0	10	56	7.4	--	--	.051
08...	--	190	160	40	417	28.0	10	67	8.2	6.4	.8	.073
15...	221	112	150	40	356	29.0	20	30	8.1	6.5	.6	--
22...	--	37	160	33	445	26.0	7	30	7.5	6.6	.5	--
31...	--	68	160	39	440	28.5	20	39	7.6	6.6	1.1	--
SEP.												
03...	--	50	160	36	443	28.0	20	32	7.4	7.0	.4	--
14...	236	33	160	35	414	27.0	20	28	7.7	6.2	--	--
19...	--	40	160	24	482	26.5	10	--	8.0	8.2	--	--
25...	--	17	180	39	460	26.0	10	19	7.7	7.1	1.0	.020

LOWER MISSISSIPPI RIVER BASIN

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MISSISSIPPI RIVER MAIN STEM

07374120 MISSISSIPPI RIVER AT PIAQUEMINE, LA.--Continued

CHEMICAL ANALYSES, JANUARY TO SEPTEMBER 1973--Continued

DATE	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	CYANIDE (CN) (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)
JAN.											
11...	11000	550	0	3	<10	<.5	25	10	.00	7.0	4
14...	3200	790	0	0	<10	<.5	0	80	.00	--	0
26...	--	--	0	0	<10	1.0	0	20	.00	--	6
FEB.											
01...	3500	2000	0	0	<10	<.5	0	30	.00	--	6
08...	1400	600	0	4	<10	<.5	0	70	.00	--	4
15...	5600	1100	3	0	<10	.9	0	40	.00	--	0
22...	2200	500	0	0	<10	.9	<.5	20	.00	--	0
MAR.											
01...	700	--	3	2	<10	<.5	<.5	10	.00	--	1
09...	880	110	0	0	<10	<.5	<.5	10	.00	3.0	1
15...	13000	1500	0	0	<10	<.5	<.5	0	.00	--	0
21...	7800	3300	0	0	<10	<.5	0	10	.00	--	0
30...	5000	1500	0	0	<10	<.5	0	10	.00	--	1
APR.											
02...	4000	1000	0	2	<10	<.5	10	10	.00	.0	0
12...	1800	600	0	0	<10	1.0	<.5	0	.00	--	0
17...	1600	240	0	0	<10	<.5	0	0	.00	--	0
26...	23000	--	0	0	<10	<.5	0	0	.00	--	1
MAY											
04...	7400	460	0	0	<10	<.5	0	0	.00	--	3
10...	--	--	0	0	<10	<.5	0	20	.00	2.0	0
17...	--	--	0	0	<10	<.5	0	10	.00	--	2
23...	2000	400	0	0	<10	<.5	0	30	.00	--	3
30...	5000	800	0	0	<10	<.5	0	0	.00	--	2
JUNE											
08...	1300	93	0	0	<10	<.5	0	20	.00	.0	10
13...	2100	--	0	0	<10	<.5	0	10	.00	--	4
20...	--	1100	0	0	<10	<.5	0	10	.00	--	5
27...	310	--	0	0	<10	<.5	0	0	.00	--	5
JULY											
04...	2100	700	0	0	<10	<.5	0	0	.00	--	0
11...	490	370	0	0	<10	4.0	0	0	.00	--	0
17...	5100	1200	0	0	<10	1.5	0	0	.00	--	0
25...	5700	2500	0	0	<10	.5	0	0	.00	--	0
AUG.											
01...	5200	1600	0	1	<10	<.5	0	10	.00	--	0
08...	6800	4000	0	0	<10	<.5	0	0	.00	4.0	1
15...	7500	3300	0	0	<10	<.5	0	20	.00	--	1
22...	2900	620	0	0	<10	<.5	0	0	.00	--	2
31...	9500	300	0	0	<10	<.5	0	0	.00	--	0
SEP.											
03...	1600	200	0	0	<10	<.5	0	0	.00	1.0	0
14...	--	--	0	0	<10	<.5	0	0	.00	--	0
19...	--	--	0	0	<10	<.5	0	0	.00	--	0
25...	8000	2200	0	0	<10	.5	0	0	.00	--	1

LOWER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER MAIN STEM

07374220 MISSISSIPPI RIVER AT UNION, LA.

LOCATION.--Lat 30°05'52", long 90°54'45", T.11 S., R.15 E., St. James Parish, near center of span on downstream side of Sunshine Bridge on State Highway 3089, 0.7 mile northwest of Union.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Chemical analyses: January to September 1973.

CHEMICAL ANALYSES, JANUARY TO SEPTEMBER 1973

DATE	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NESIUM (MAG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED POTAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED (RESI- DUE AT 180 C) (MG/L)
JAN.												
11...	7.4	230	31	11	12	2.8	105	42	16	.2	.52	186
18...	--	20	--	--	--	--	106	36	18	--	.36	178
25...	--	40	--	--	--	--	108	36	18	--	.38	194
FEB.												
01...	--	0	--	--	--	--	126	43	24	--	.45	232
08...	8.7	20	32	11	13	2.7	108	36	19	.2	.38	230
15...	--	40	--	--	--	--	118	41	20	--	.50	218
22...	--	60	--	--	--	--	712	39	19	--	.50	204
MAR.												
02...	--	40	--	--	--	--	106	37	15	--	.40	196
09...	8.4	40	36	11	14	2.6	122	38	18	.2	.50	210
15...	--	60	--	--	--	--	132	40	28	--	.38	237
21...	--	80	--	--	--	--	110	43	22	--	.50	199
30...	--	40	--	--	--	--	103	33	17	--	.43	185
APR.												
02...	9.8	70	31	11	12	2.8	105	34	17	.2	.43	205
12...	--	40	--	--	--	--	107	35	15	--	.75	199
17...	--	50	--	--	--	--	107	35	16	--	.54	217
26...	--	10	--	--	--	--	117	38	18	--	.50	210
MAY												
04...	8.3	20	33	8.9	12	2.4	106	34	16	.3	.45	200
10...	--	20	--	--	--	--	104	44	13	--	.47	184
17...	--	10	--	--	--	--	114	32	14	--	.52	166
23...	--	20	--	--	--	--	112	35	15	--	.81	--
30...	--	40	--	--	--	--	118	35	17	--	.90	224
JUNE												
08...	--	10	--	--	--	--	126	36	16	--	1.0	198
14...	6.0	20	34	10	14	2.6	118	36	20	.4	.60	215
21...	--	20	--	--	--	--	122	38	16	--	.99	207
28...	--	50	--	--	--	--	134	38	17	--	1.3	221
JULY												
05...	5.8	0	37	12	15	2.8	134	43	18	.2	1.1	229
12...	--	10	--	--	--	--	144	42	19	--	.70	245
17...	--	0	--	--	--	--	145	44	19	--	.60	243
25...	--	0	--	--	--	--	157	48	19	--	1.2	248
AUG.												
02...	--	20	--	--	--	--	164	54	21	--	1.3	268
08...	--	0	--	--	--	--	148	55	21	--	1.4	197
15...	6.9	40	40	11	16	3.0	131	40	19	.2	1.3	207
23...	--	0	45	13	--	--	148	54	24	--	.98	295
31...	--	0	43	13	--	--	150	52	21	--	.75	255
SEP.												
03...	--	0	42	13	--	--	128	53	23	--	1.4	289
14...	2.1	0	43	13	24	3.4	162	53	25	.4	.77	279
19...	--	0	44	14	--	--	166	52	30	--	.61	290
25...	--	0	--	--	--	--	168	56	30	--	.50	264

LOWER MISSISSIPPI RIVER BASIN

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MISSISSIPPI RIVER MAIN STEM

07374220 MISSISSIPPI RIVER AT UNION, LA.--Continued

CHEMICAL ANALYSES, JANUARY TO SEPTEMBER 1973--Continued

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	SUS- PENDE SOLIDS (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (MG/L)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)
JAN.												
11...	177	170	120	38	300	5.0	10	51	7.1	11.7	3.3	.033
18...	--	276	120	33	305	6.5	20	100	7.2	11.0	--	.046
25...	--	102	130	41	312	6.5	25	57	7.3	11.0	--	.055
FEB.												
01...	--	234	140	37	372	7.5	25	100	7.3	10.6	3.6	.052
08...	177	270	130	38	309	7.5	20	100	7.5	10.8	2.7	.008
15...	--	210	130	37	339	7.0	10	36	7.7	10.7	4.9	.028
22...	--	236	140	42	325	6.0	20	82	7.1	10.9	2.7	.065
MAR.												
02...	--	226	120	33	285	8.5	10	80	7.2	11.0	2.0	.062
09...	190	86	130	33	333	13.5	20	78	7.3	10.0	4.0	.034
15...	--	155	140	36	387	14.5	15	90	7.2	9.2	1.4	.067
21...	--	160	120	32	320	14.0	25	100	7.3	8.2	4.8	.049
30...	--	134	110	28	287	13.5	25	95	7.2	8.1	1.4	.034
APR.												
02...	172	141	120	37	274	15.0	25	89	7.0	7.7	1.0	.049
12...	--	246	120	32	303	14.0	25	62	7.0	9.2	7.9	.023
17...	--	101	120	30	305	15.0	15	39	7.2	8.9	4.2	.022
26...	--	146	130	34	330	17.5	15	85	7.1	8.0	2.5	.029
MAY												
04...	169	174	120	32	301	18.0	--	77	7.0	7.8	1.1	.037
10...	--	263	110	25	272	21.0	--	101	6.8	6.7	2.3	.028
17...	--	180	120	23	296	--	20	75	7.5	--	--	.050
23...	--	124	120	26	304	22.0	20	50	7.1	7.7	3.5	.020
30...	--	96	120	27	318	22.0	10	51	7.1	7.2	1.5	.042
JUNE												
08...	--	81	130	29	336	23.0	20	70	7.3	6.2	--	.031
14...	184	102	130	31	335	24.5	10	61	7.1	7.4	3.5	.041
21...	--	59	130	30	336	27.0	10	67	7.4	6.6	1.8	.069
28...	--	59	140	29	344	28.0	10	45	7.2	6.1	1.2	.051
JULY												
05...	205	141	140	32	356	28.0	10	45	8.0	6.8	1.7	.048
12...	--	75	150	35	396	29.0	10	61	7.8	5.8	.8	.047
17...	--	129	160	39	402	32.0	20	56	7.8	6.0	.3	.036
25...	--	150	160	33	406	29.5	10	44	7.3	6.0	.4	.068
AUG.												
02...	--	32	170	36	430	31.0	10	32	7.4	--	--	.057
08...	--	242	170	45	425	28.0	10	87	8.1	6.4	.5	.098
15...	207	92	150	38	380	30.0	10	27	7.4	6.3	1.3	--
23...	--	37	170	45	444	29.0	10	28	7.5	7.2	.6	--
31...	--	69	160	38	425	28.5	20	33	7.8	6.1	.4	--
SEP.												
03...	--	46	160	53	432	28.0	10	33	7.4	6.8	1.1	--
14...	247	28	160	28	456	27.0	10	29	7.7	6.3	2.1	--
19...	--	27	170	31	467	--	20	--	7.8	8.6	--	--
25...	34	--	170	32	446	26.5	10	25	7.8	8.1	1.6	.010

LOWER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER MAIN STEM

07374220 MISSISSIPPI RIVER AT UNION, LA.--Continued

CHEMICAL ANALYSES, JANUARY TO SEPTEMBER 1973--Continued

DATE	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	CYANIDE (CN) (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)
JAN.											
11...	12000	1900	0	0	<10	<.5	10	10	.00	10	0
18...	3700	1200	0	0	<10	<.5	0	30	.00	--	5
25...	2500	700	0	0	<10	<.5	0	40	.00	--	6
FEB.											
01...	2300	1500	0	2	<10	<.5	0	40	.00	--	4
08...	2600	650	0	0	<10	<.5	0	50	.00	--	0
15...	3400	500	4	0	<10	<.5	<5	60	.00	--	0
22...	3200	300	4	0	<10	1.1	<5	40	.00	--	0
MAR.											
02...	5000	570	3	0	<10	<.5	10	10	.00	--	1
09...	2600	1000	0	0	<10	<.5	<5	0	.00	.0	2
15...	6000	580	0	0	<10	<.5	<5	0	.00	--	0
21...	10000	1300	0	0	<10	<.5	0	10	.00	--	1
30...	9000	1400	0	2	<10	<.5	0	10	.00	--	2
APR.											
02...	3900	1000	0	1	<10	<.5	0	0	.00	1.0	0
12...	3300	860	0	0	<10	1.1	0	0	.00	--	1
17...	1800	240	0	0	<10	.6	8	0	.00	--	0
26...	10000	--	0	0	<10	<.5	0	10	.00	--	0
MAY											
04...	3400	380	0	0	<10	<.5	0	10	.00	--	1
10...	--	--	0	0	<10	<.5	0	20	.00	1.0	0
17...	--	--	0	0	<10	<.5	0	20	.00	--	0
23...	1100	400	0	0	<10	<.5	0	30	.00	--	7
30...	5000	1800	0	0	<10	<.5	0	0	.00	--	0
JUNE											
08...	1200	--	0	0	<10	<.5	0	20	.00	.0	14
14...	1100	60	0	0	<10	<.5	0	10	.00	--	2
21...	1800	1200	0	0	<10	<.5	0	10	.00	--	0
28...	1500	190	0	0	<10	<.5	0	0	.00	--	0
JULY											
05...	1200	1100	0	0	<10	<.5	0	0	.00	.0	3
12...	1200	800	0	0	<10	<.5	0	0	.00	--	0
17...	1300	530	0	0	<10	1.5	0	0	.00	--	0
25...	2500	1500	0	0	<10	.9	0	0	.00	--	0
AUG.											
02...	2800	400	0	1	<10	<.5	<5	30	.00	--	1
08...	13000	8800	0	0	<10	<.5	0	0	.00	3.0	1
15...	4500	750	0	0	<10	<.5	6	0	.00	--	2
23...	1800	100	0	0	<10	<.5	0	0	.00	--	2
31...	7000	50	0	0	<10	<.5	0	0	.00	--	0
SEP.											
03...	2700	100	0	0	<10	<.5	0	0	.00	.0	0
14...	4900	80	0	0	<10	<.5	0	0	.00	--	0
19...	--	--	0	0	<10	<.5	0	0	.00	--	0
25...	1500	400	0	0	<10	<.5	0	10	.00	--	0

LOWER MISSISSIPPI RIVER BASIN

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MISSISSIPPI RIVER MAIN STEM

07374400 MISSISSIPPI RIVER AT LULING FERRY, LA.

LOCATION.--Lat 29°56'19", long 90°21'49", St. Charles Parish, at Ferry at Luling-to-Destrehan crossing, 17 miles west of New Orleans.

DRAINAGE AREA.--1,243,600 sq mi, arbitrarily determined.

PERIOD OF RECORD.--Chemical analyses: October 1957 to September 1973.

Water temperatures: October 1957 to September 1972 (discontinued).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
OCT.												
03...	--	--	--	--	--	--	--	--	--	--	--	--
JAN.												
11...	7.7	130	33	10	12	2.5	101	45	16	.3	.36	186
18...	--	30	--	--	--	--	100	39	16	--	.34	206
25...	--	10	--	--	--	--	105	39	18	--	.27	202
FEB.												
01...	--	0	--	--	--	--	120	49	26	--	.36	238
08...	9.0	20	33	11	14	2.7	108	39	19	.4	.38	222
15...	--	60	--	--	--	--	117	43	19	--	.50	218
22...	--	50	--	--	--	--	116	43	20	--	.50	210
MAR.												
01...	--	40	--	--	--	--	110	42	16	--	.40	206
09...	8.6	10	35	11	14	2.6	122	42	18	.3	.50	214
15...	--	40	--	--	--	--	136	47	29	--	.38	246
21...	--	40	--	--	--	--	114	37	23	--	.47	203
30...	--	30	--	--	--	--	102	32	18	--	.41	181
APR.												
02...	7.9	70	35	8.9	13	2.8	105	38	17	.3	.45	202
13...	--	60	--	--	--	--	107	35	16	--	.66	199
17...	--	20	--	--	--	--	108	36	16	--	.61	221
26...	--	0	--	--	--	--	119	41	18	--	.50	223
MAY												
04...	7.0	10	33	9.1	12	2.4	106	37	16	.3	.43	207
10...	--	20	--	--	--	--	103	44	12	--	.45	192
23...	--	0	--	--	--	--	117	37	15	--	.88	199
30...	--	20	--	--	--	--	136	38	16	--	1.0	223
JUNE												
08...	--	10	--	--	--	--	124	38	16	--	.90	203
13...	6.0	20	35	10	15	2.5	121	43	18	.3	.50	218
20...	--	20	--	--	--	--	121	41	17	--	1.0	207
27...	--	10	--	--	--	--	130	36	16	--	1.1	219
JULY												
04...	5.6	0	34	12	17	3.0	138	46	17	.4	1.0	236
11...	--	0	--	--	--	--	142	42	19	--	.70	241
17...	--	0	--	--	--	--	144	45	19	--	.80	255
25...	--	0	--	--	--	--	157	56	21	--	1.2	262
AUG.												
01...	--	10	--	--	--	--	160	53	21	--	1.3	262
08...	--	20	--	--	--	--	162	66	24	--	1.5	257
15...	6.4	10	42	11	16	3.0	126	46	20	.5	1.3	212
22...	--	0	45	13	--	--	150	53	22	--	1.3	283
31...	--	0	47	13	--	--	156	60	21	--	.80	278
SEP.												
05...	--	0	47	13	--	--	149	64	24	--	.82	293
14...	3.7	0	47	13	24	3.5	150	61	26	.7	.01	294
19...	--	--	50	13	--	--	163	64	29	--	.54	303
25...	--	0	--	--	--	--	161	62	29	--	.30	274

LOWER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER MAIN STEM

07374400 MISSISSIPPI RIVER AT LULING FERRY, LA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	SUS- PENDED SOLIDS (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICHO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (MG/L)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)
OCT. 03...	--	--	--	--	--	--	--	--	--	--	--	--
JAN. 11...	178	214	120	42	305	5.0	10	36	7.1	11.0	4.4	.072
18...	--	292	120	38	314	4.5	20	90	7.5	10.9	--	.042
25...	--	126	120	34	316	7.5	20	52	7.3	10.9	--	.085
FEB. 01...	--	166	140	42	387	8.0	20	76	7.0	10.4	3.4	.082
08...	183	156	130	39	321	8.0	25	84	7.4	10.4	2.8	.017
15...	--	162	130	39	344	7.5	10	38	7.7	10.6	4.8	.046
22...	--	268	140	45	337	6.0	20	99	7.0	10.8	2.7	.11
MAR. 01...	--	170	130	40	306	7.5	20	57	7.2	10.7	2.0	.075
09...	195	142	140	36	338	11.0	20	78	7.4	10.4	3.8	.046
15...	--	97	150	35	401	14.0	20	80	7.4	9.3	6.5	.16
21...	--	300	130	38	336	15.0	25	120	7.3	8.2	3.8	.062
30...	--	226	120	33	297	13.5	25	89	7.2	8.0	1.8	.062
APR. 02...	177	229	120	38	285	14.5	25	75	7.1	7.7	1.4	.018
13...	--	320	120	33	305	14.0	25	54	7.0	8.2	1.8	.036
17...	--	132	120	32	306	15.0	20	81	7.1	8.9	3.2	.029
26...	--	222	130	36	335	17.5	10	73	7.1	8.0	1.6	.043
MAY 04...	171	207	120	33	308	18.0	--	81	7.0	7.3	1.5	.046
10...	--	166	110	28	272	19.5	--	95	6.7	7.5	2.4	.052
23...	--	84	130	32	306	24.5	10	85	7.2	7.6	3.3	.033
30...	--	145	130	14	318	22.5	10	79	7.4	6.7	1.5	.046
JUNE 08...	--	107	130	31	339	23.0	15	61	7.2	6.7	--	.055
13...	192	117	130	31	341	24.0	10	65	7.2	7.9	4.5	.064
20...	--	99	130	31	335	26.0	15	43	7.4	6.0	1.2	.11
27...	--	83	140	33	346	27.0	10	56	7.1	5.4	.3	.072
JULY 04...	212	86	150	34	369	28.5	50	56	7.9	5.0	.3	.044
11...	--	88	160	40	394	28.5	10	43	7.7	5.5	.5	.072
17...	--	43	160	42	406	32.0	5	30	7.7	5.7	--	.083
25...	--	110	170	44	427	29.5	10	35	7.4	5.6	.1	.16
AUG. 01...	--	104	170	39	425	30.0	10	58	7.4	--	--	.17
08...	--	152	200	62	464	28.5	10	62	7.8	6.2	.9	.22
15...	214	104	150	47	396	30.0	20	32	7.4	5.9	.4	--
22...	--	38	170	43	439	29.0	8	26	7.5	6.1	.5	--
31...	--	20	170	43	450	28.5	7	26	7.7	6.2	.6	--
SEP. 05...	--	55	170	49	456	27.0	10	30	7.8	6.7	1.4	--
14...	253	12	170	48	461	27.5	10	27	7.7	6.3	1.0	--
19...	--	16	180	45	521	--	20	--	7.8	--	--	--
25...	--	24	180	48	471	27.0	10	23	7.7	8.0	1.4	.10

07374400 MISSISSIPPI RIVER AT LULING FERRY, LA.--Continued

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LOWER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER MAIN STEM

07374400 MISSISSIPPI RIVER AT LULING FERRY, LA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DATE	DIS- SOLVED GROSS BETA AS SR90 (PC/L)	SUS- PENED GROSS BETA AS SR90 (PC/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	CYANIDE (CN) (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)
OCT. 03...	5.3	1.8	--	--	--	--	--	--	--	--	--
JAN. 11...	3.7	15	0	3	<10	<.5	5	10	.00	30	5
18...	--	--	6	0	<10	<.5	0	10	.00	--	0
25...	--	--	5	0	<10	<.5	0	70	.00	--	5
FEB. 01...	--	--	3	0	<10	<.5	0	50	.00	--	3
08...	--	--	0	0	<10	<.5	0	130	.00	--	4
15...	--	--	0	0	<10	<.5	5	50	.00	--	0
22...	--	--	3	0	<10	1.6	5	50	.00	--	0
MAR. 01...	--	--	0	0	<10	<.5	<5	10	.00	--	1
09...	--	--	0	0	<10	<.5	<5	20	.00	1.0	2
15...	--	--	0	0	<10	.7	<5	10	.00	.0	1
21...	--	--	0	0	<10	<.5	0	10	.00	--	1
30...	--	--	0	0	<10	<.5	0	10	.00	--	0
APR. 02...	--	--	0	0	<10	<.5	0	10	.00	.0	0
13...	--	--	0	0	<10	<.5	0	20	.00	--	1
17...	--	--	0	0	<10	<.5	0	0	.00	--	0
26...	--	--	1	0	<10	<.5	0	0	.00	--	1
MAY 04...	--	--	0	0	<10	<.5	0	10	.00	--	0
10...	--	--	0	0	<10	<.5	0	20	.00	1.0	0
23...	--	--	0	0	<10	<.5	0	10	.00	--	12
30...	--	--	0	0	<10	<.5	0	30	.00	--	2
JUNE 08...	--	--	0	0	<10	<.5	0	20	.00	.0	11
13...	--	--	0	0	<10	<.5	0	10	.00	--	8
20...	--	--	0	0	<10	<.5	0	30	.00	--	0
27...	--	--	0	0	<10	<.5	0	0	.00	--	0
JULY 04...	--	--	0	0	<10	<.5	0	0	.00	--	0
11...	--	--	0	0	<10	<.5	0	0	.00	--	0
17...	--	--	0	0	<10	<.5	0	0	.00	--	0
25...	--	--	0	1	<10	.5	0	0	.00	--	0
AUG. 01...	--	--	0	1	<10	<.5	0	0	.00	--	0
08...	--	--	0	0	<10	<.5	0	20	.00	5.0	0
15...	--	--	0	0	<10	<.5	0	0	.00	--	2
22...	--	--	0	0	<10	<.5	0	0	.00	--	1
31...	--	--	0	0	<10	<.5	0	0	.00	--	0
SEP. 05...	--	--	0	2	<10	<.5	0	0	.00	--	0
14...	--	--	0	0	<10	<.5	0	0	.00	--	0
19...	--	--	0	0	<10	<.5	0	0	.00	--	0
25...	--	--	0	0	<10	<.5	0	0	.00	--	0

LOWER MISSISSIPPI RIVER BASIN

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MISSISSIPPI RIVER MAIN STEM

07374508 MISSISSIPPI RIVER AT NEW ORLEANS, LA.

LOCATION.--Lat 29°57'03", long 90°08'17", at Orleans-Jefferson Parish line at Carrollton Street Municipal Water Plant.

DRAINAGE AREA.--1,243,600 sq mi, arbitrarily determined.

PERIOD OF RECORD.--Chemical analyses: Water years 1967-68 (partial-record station), October 1968 to September 1973.
Water temperatures: November 1970 to September 1973.

REMARKS.--Continuous recorder at this station. Probes are 8 ft above bottom of river.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
NOV.										
08...	8.7	30	47	12	30	3.0	140	68	33	.4
21...	9.1	30	38	12	17	4.3	117	58	18	.2
29...	--	--	--	--	--	--	--	--	--	--
DEC.										
05...	3.0	20	40	9.7	16	3.4	124	44	18	.3
FEB.										
14...	--	10	--	--	--	--	122	42	20	--
MAR.										
02...	6.6	90	34	9.8	14	2.9	108	46	17	.2
APR.										
02...	7.7	230	33	9.1	14	3.5	104	38	18	.2
MAY										
11...	6.9	10	32	7.6	12	3.5	100	32	14	.2
JUNE										
07...	6.3	90	41	7.7	15	3.1	121	42	17	.2
JULY										
11...	7.4	30	40	15	16	3.5	140	46	20	.3
AUG.										
09...	7.4	30	47	14	22	3.9	148	62	24	.4
SEP.										
19...	1.3	20	48	15	25	4.0	164	61	29	.8

DATE	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	SUS- PENDED SOLIDS (MG/L)	HARD- NESS (CA.MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)
NOV.									
08...	.30	274	273	--	160	50	476	17.0	10
21...	.50	--	217	--	140	44	381	12.0	45
29...	--	--	--	--	--	--	377	9.0	--
DEC.									
05...	.10	203	199	--	140	40	363	9.5	5
FEB.									
14...	.50	220	--	198	130	34	337	9.0	15
MAR.									
02...	.90	228	188	--	120	36	313	7.5	30
APR.									
02...	1.1	238	180	--	120	35	311	14.5	30
MAY									
11...	1.1	227	162	--	110	29	282	20.0	40
JUNE									
07...	1.0	246	197	--	130	35	335	22.5	20
JULY									
11...	1.3	256	223	--	160	45	382	29.0	10
AUG.									
09...	1.3	308	259	--	180	55	445	28.5	10
SEP.									
19...	.40	282	267	--	180	47	462	--	10

MISSISSIPPI RIVER MAIN STEM

07374508 MISSISSIPPI RIVER AT NEW ORLEANS, LA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DATE	TURBIDITY (MG/L)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)
NOV.								
08...	21	7.2	8.6	--	--	--	--	--
21...	70	7.2	9.0	--	--	--	--	--
29...	15	--	9.9	--	--	--	--	--
DEC.								
05...	49	7.3	9.0	2.2	.025	--	--	--
FEB.								
14...	45	7.8	10.0	3.6	.028	4800	--	200
MAR.								
02...	70	7.8	10.8	2.0	.095	4800	120	80
APR.								
02...	85	7.9	7.7	1.3	.046	5200	330	1100
MAY								
11...	115	7.9	8.5	--	.048	--	--	--
JUNE								
07...	33	8.0	6.1	.0	.029	1600	230	84
JULY								
11...	40	8.0	6.3	.4	.14	640	170	180
AUG.								
09...	12	8.0	5.9	.7	.14	3000	940	1100
SEP.								
19...	--	7.7	--	--	.22	--	--	--

[illegible]

MISSISSIPPI RIVER MAIN STEM

07374508 MISSISSIPPI RIVER AT NEW ORLEANS, LA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DATE	ALDRIN (UG/L)	LINDANE (UG/L)	CHLOR- DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA- CHLOR (UG/L)
DEC. 05...	.00	.00	.0	.00	.00	.00	.00	.00	.00
JAN. 02...	--	--	--	--	--	--	--	--	--
APR. 02...	.00	.00	.0	.00	.00	.00	.00	.00	.00
MAY 11...	.00	.00	.0	.00	.00	.01	.01	.00	.00
AUG. 09...	.00	.00	.0	.00	.00	.00	.01	.00	.00

DATE	HEPTA- CHLOR EPOXIDE (UG/L)	PCB (UG/L)	MALA- THION (UG/L)	PARA- THION (UG/L)	METHYL PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC. 05...	.00	--	.00	.00	.00	.00	.00	.02	9.0
JAN. 02...	--	--	--	--	--	--	--	--	7.0
APR. 02...	.00	--	.00	.00	.00	.02	.00	.00	9.0
MAY 11...	.00	.0	.00	.00	.00	.03	.01	.00	--
AUG. 09...	.00	.0	.00	.00	.00	.00	.00	.01	--

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	480	472	378	---	---	315	309	325	329	364	407	440
2	462	497	374	---	---	318	310	321	328	367	414	433
3	464	502	376	---	356	321	310	317	332	374	423	435
4	470	498	377	---	341	321	310	316	336	375	425	435
5	436	492	379	---	331	324	307	318	340	369	418	436
6	436	490	375	---	330	329	305	314	346	368	416	433
7	425	492	369	---	328	335	306	308	348	368	432	417
8	418	465	383	---	328	340	308	302	---	369	439	418
9	426	465	392	---	327	373	304	298	---	374	421	418
10	433	513	397	---	329	383	302	295	---	381	401	424
11	426	521	387	---	331	399	301	293	---	389	380	431
12	416	496	397	---	349	417	300	295	---	397	363	432
13	417	474	389	---	366	428	300	296	---	403	358	446
14	411	---	390	---	366	---	301	298	---	407	358	450
15	415	397	372	---	---	---	304	300	346	407	366	449
16	417	408	360	---	372	---	306	---	346	409	371	461
17	419	407	351	---	371	---	306	310	343	407	380	453
18	424	399	357	---	379	---	307	312	342	409	394	455
19	421	396	354	---	372	---	---	316	342	414	401	460
20	417	390	---	---	368	---	---	318	342	420	407	469
21	422	385	---	---	367	---	---	319	345	425	408	468
22	428	373	---	---	358	---	---	318	345	429	414	476
23	428	377	---	---	337	347	---	319	345	425	416	474
24	422	390	---	---	335	348	---	321	345	429	424	466
25	433	391	---	---	329	317	---	322	345	430	431	463
26	440	377	---	---	325	327	---	324	346	421	436	458
27	452	380	---	---	326	325	338	324	348	422	438	463
28	459	377	413	---	325	323	336	326	349	417	441	471
29	465	381	---	---	---	312	335	329	354	414	441	476
30	463	384	---	---	---	302	330	331	360	416	442	473
31	456	---	---	---	---	305	---	330	---	415	444	---
AVG.	436	435	---	---	346	---	---	314	---	400	410	449

LOWER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER MAIN STEM

07374508 MISSISSIPPI RIVER AT NEW ORLEANS, LA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.7	6.0	6.5	8.8	8.3	8.5	10.4	9.8	10.1	11.2	10.8	11.0
2	6.6	6.0	6.5	9.0	8.6	8.8	10.4	10.0	10.2	11.2	10.8	11.1
3	6.7	6.0	6.5	8.8	7.5	8.7	10.5	9.9	10.2	11.2	10.6	11.0
4	6.8	6.6	6.7	8.9	8.7	8.9	10.5	10.0	10.3	11.1	10.6	11.0
5	6.9	6.8	6.8	8.9	8.8	8.9	10.7	10.1	10.4	11.1	10.7	11.0
6	6.7	6.4	6.5	8.9	8.7	8.8	10.7	10.1	10.4	11.1	10.8	11.0
7	6.6	6.4	6.5	8.9	8.5	8.8	10.8	10.3	10.6	11.1	10.7	11.0
8	6.6	6.4	6.5	8.9	8.7	8.8	10.7	10.2	10.5	11.2	10.8	11.0
9	6.8	6.4	6.6	8.7	8.1	8.4	10.7	10.3	10.6	11.3	10.9	11.2
10	6.9	6.6	6.8	8.3	7.6	8.0	10.7	10.2	10.6	11.4	11.1	11.3
11	7.0	6.6	6.8	8.5	7.9	8.2	10.8	10.3	10.7	11.4	10.9	11.3
12	7.1	6.9	7.0	8.6	8.0	8.3	10.7	10.2	10.6	11.5	11.1	11.3
13	7.1	7.1	7.1	8.6	8.2	8.4	10.9	10.3	10.7	11.5	11.0	11.3
14	7.2	7.0	7.1	---	---	---	11.0	10.5	10.8	11.6	11.1	11.4
15	7.2	7.1	7.1	8.7	8.4	8.5	11.3	10.4	11.0	11.5	11.2	11.4
16	7.2	7.1	7.1	8.8	8.2	8.5	11.3	10.9	11.2	11.5	11.2	11.3
17	7.2	7.1	7.2	9.0	8.6	8.8	11.4	11.0	11.2	11.4	11.1	11.2
18	7.2	7.1	7.2	9.3	8.7	9.0	11.4	10.7	11.2	11.4	10.5	11.1
19	7.3	7.1	7.2	9.5	9.0	9.3	11.2	10.7	10.9	11.3	11.0	11.2
20	7.6	7.3	7.5	9.6	9.3	9.5	11.1	10.6	11.0	11.3	11.0	11.2
21	7.8	7.6	7.7	9.7	9.1	9.4	11.2	9.8	10.4	11.3	11.0	11.2
22	8.0	7.8	7.9	9.8	9.1	9.5	10.6	9.7	10.2	11.4	10.9	11.2
23	7.9	7.5	7.8	10.0	9.6	9.9	10.9	10.0	10.4	11.3	10.9	11.1
24	7.8	7.5	7.7	10.1	9.5	9.9	11.1	10.4	10.9	11.1	10.8	11.0
25	7.8	7.5	7.8	10.0	9.6	9.8	11.1	10.4	10.9	11.0	10.7	10.9
26	8.1	7.8	7.9	10.0	9.4	9.8	11.2	10.5	10.9	10.7	10.1	10.4
27	8.3	8.1	8.2	10.1	9.5	9.9	11.3	10.7	11.0	10.7	9.9	10.3
28	8.3	7.5	8.0	10.3	9.5	10.0	11.3	10.7	11.0	10.5	9.6	10.1
29	8.2	7.5	8.0	10.3	9.7	10.0	11.3	10.9	11.0	10.5	9.7	10.1
30	8.3	8.1	8.2	10.3	9.8	10.0	11.3	10.7	11.1	10.6	9.7	10.2
31	8.4	8.3	8.3	---	---	---	11.3	10.9	11.1	10.5	9.6	10.1
AVG.	8.4	6.0	7.2	10.3	7.5	9.1	11.4	9.7	10.7	11.6	9.6	11.0
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.5	9.8	10.2	11.8	10.4	11.3	8.5	8.2	8.3	7.9	7.8	7.9
2	10.6	10.0	10.4	12.3	10.9	11.6	8.5	8.0	8.2	7.8	7.7	7.8
3	10.9	10.5	10.7	12.2	11.3	11.9	8.1	7.8	8.0	7.7	7.5	7.6
4	11.3	10.6	10.9	11.8	10.9	11.4	8.0	7.6	7.9	7.9	7.5	7.7
5	11.1	10.6	10.8	11.8	11.0	11.5	8.0	7.4	7.6	7.9	7.8	7.9
6	11.0	10.6	10.8	11.9	10.2	11.2	8.1	7.8	7.9	7.9	7.8	7.8
7	11.0	10.3	10.6	11.4	10.4	11.0	8.2	7.8	8.0	7.9	7.8	7.8
8	11.0	10.3	10.6	11.4	10.8	11.0	8.1	7.3	7.8	7.8	7.6	7.7
9	11.1	10.3	10.8	11.0	10.2	10.4	8.4	7.5	7.7	7.6	7.5	7.5
10	11.3	10.7	11.0	11.0	10.0	10.5	8.4	7.7	8.1	7.5	7.4	7.5
11	11.3	10.3	10.8	10.5	9.4	10.0	8.6	8.2	8.3	7.7	7.4	7.5
12	11.0	10.7	10.9	10.0	9.1	9.7	8.5	7.9	8.1	7.7	7.6	7.6
13	---	---	---	10.3	12.8	12.9	8.4	8.0	8.2	7.7	7.6	7.6
14	---	---	---	---	---	---	8.2	7.8	8.0	7.7	7.6	7.7
15	---	---	---	---	---	---	8.0	7.6	7.9	7.7	7.6	7.7
16	---	---	---	---	---	---	---	---	---	---	---	---
17	12.2	11.5	11.8	---	---	---	---	---	---	---	---	---
18	12.1	11.4	11.7	---	---	---	---	---	---	7.6	7.6	7.6
19	12.2	11.3	11.7	---	---	---	---	---	---	7.7	7.6	7.7
20	12.3	11.7	11.9	---	---	---	---	---	---	7.7	7.7	7.7
21	12.1	11.5	11.9	---	---	---	---	---	---	7.7	7.6	7.7
22	12.0	11.4	11.8	---	---	---	---	---	---	7.7	7.7	7.7
23	12.0	11.2	11.7	---	---	---	---	---	---	7.7	7.6	7.6
24	12.1	11.0	11.6	---	---	---	---	---	---	7.6	7.2	7.4
25	12.1	11.0	11.6	---	---	---	---	---	---	7.6	7.4	7.5
26	11.9	11.2	11.5	---	---	---	---	---	---	7.8	7.7	7.7
27	11.9	11.1	11.5	---	---	---	8.2	8.1	8.2	7.8	7.7	7.8
28	11.9	10.6	11.4	---	---	---	8.2	7.9	8.0	7.8	7.7	7.7
29	---	---	---	---	---	---	8.0	7.9	7.9	7.6	7.5	7.6
30	---	---	---	8.5	8.3	8.5	7.9	7.8	7.9	7.6	7.5	7.5
31	---	---	---	8.5	8.3	8.4	---	---	---	7.5	7.0	7.3
AVG.	12.3	9.8	11.2	---	---	---	---	---	---	7.9	7.0	7.6

MISSISSIPPI RIVER MAIN STEM

07374508 MISSISSIPPI RIVER AT NEW ORLEANS, LA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.0	7.0	7.0	5.5	5.4	5.5	---	---	---	6.3	6.0	6.2
2	7.0	6.9	7.0	5.5	5.5	5.5	---	---	---	---	---	---
3	7.0	7.0	7.0	5.6	5.4	5.5	---	---	---	---	---	---
4	7.0	6.9	7.0	5.5	5.4	5.5	6.2	5.6	6.0	---	---	---
5	6.9	6.9	6.9	5.5	5.5	5.5	6.2	5.8	6.0	---	---	---
6	6.8	6.8	6.8	5.5	5.4	5.5	6.5	5.6	5.9	---	---	---
7	6.8	6.7	6.7	5.5	5.4	5.5	6.0	5.8	5.9	6.2	4.5	5.8
8	---	---	---	5.5	5.4	5.4	6.2	5.6	5.8	5.6	5.2	5.4
9	---	---	---	5.5	5.4	5.5	5.7	5.4	5.5	6.0	5.4	5.7
10	---	---	---	5.5	5.4	5.5	5.6	5.4	5.5	5.9	5.6	5.8
11	---	---	---	5.6	5.5	5.6	5.6	5.4	5.5	6.2	5.7	5.9
12	---	---	---	5.6	5.4	5.5	5.6	5.2	5.4	6.2	6.2	6.5
13	---	---	---	5.4	5.3	5.3	5.6	5.3	5.5	7.3	6.3	6.9
14	---	---	---	5.4	5.2	5.3	5.6	5.4	5.5	7.3	6.3	6.5
15	6.4	6.4	6.4	5.4	5.3	5.3	5.5	5.3	5.4	6.9	6.6	6.7
16	6.5	6.3	6.4	5.3	5.2	5.3	5.6	5.3	5.5	6.9	6.7	6.8
17	6.3	6.2	6.2	5.3	5.2	5.3	5.7	5.4	5.6	6.8	6.3	6.6
18	6.2	6.0	6.1	5.5	5.3	5.4	5.6	5.3	5.4	6.8	6.3	6.5
19	6.2	6.1	6.1	5.7	5.4	5.5	5.4	5.2	5.2	7.1	6.3	7.0
20	6.1	6.0	6.0	5.7	5.6	5.7	5.5	5.1	5.3	7.5	6.8	7.3
21	6.0	5.9	6.0	5.6	5.5	5.6	5.8	4.5	5.5	7.9	7.5	7.7
22	6.0	5.9	5.9	5.8	5.5	5.7	6.2	5.7	5.9	7.9	7.6	7.7
23	6.0	5.6	5.8	5.6	5.4	5.5	6.3	5.8	6.1	7.9	7.6	7.7
24	5.9	5.7	5.9	5.6	5.6	5.6	6.3	5.7	6.0	8.1	7.7	7.9
25	5.8	5.7	5.8	5.6	5.4	5.5	6.4	6.2	6.3	8.2	7.9	8.0
26	5.7	5.6	5.7	5.5	5.3	5.4	6.2	6.0	6.1	8.1	7.7	7.9
27	5.7	5.5	5.6	---	---	---	6.4	5.9	6.1	8.0	7.9	8.0
28	5.5	5.5	5.5	---	---	---	6.2	6.0	6.1	8.4	8.0	8.1
29	5.6	5.4	5.5	---	---	---	6.4	6.0	6.2	8.2	7.9	8.1
30	5.5	5.4	5.4	---	---	---	6.5	6.1	6.3	8.0	7.5	7.7
31	---	---	---	---	---	---	6.6	6.4	6.5	---	---	---
AVG.	---	---	---	5.8	5.2	5.5	6.6	4.5	5.8	8.4	4.5	7.0

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.0	16.5	8.0	6.5	7.0	7.5	14.0	17.5	23.0	28.0	31.0	29.0
2	25.5	16.5	7.5	6.5	7.0	8.0	14.5	18.0	23.0	28.0	31.0	29.0
3	25.0	16.5	7.5	6.5	6.5	8.5	15.0	18.0	23.5	28.0	31.0	28.5
4	25.0	16.0	7.5	7.0	6.5	8.5	15.0	14.0	23.5	28.5	30.0	28.5
5	24.5	16.0	7.5	7.0	7.0	9.0	15.0	18.5	24.0	28.5	29.5	28.0
6	24.5	16.0	7.5	7.0	7.0	9.5	15.0	18.5	24.0	28.0	29.5	28.0
7	24.5	16.5	7.5	7.0	7.5	10.0	15.0	19.0	24.0	28.0	29.0	28.0
8	24.0	16.0	8.0	7.0	8.0	10.5	15.0	19.0	---	28.0	29.0	28.0
9	24.0	16.5	8.0	6.5	7.5	11.0	14.5	19.5	---	28.0	29.0	28.0
10	23.5	14.5	6.0	6.0	7.5	12.0	14.5	19.5	---	28.5	29.0	28.0
11	23.0	16.0	8.5	5.5	7.0	12.5	14.5	20.0	---	28.5	29.0	27.5
12	23.0	15.5	6.5	5.0	7.0	12.5	14.5	20.0	---	28.5	29.0	27.5
13	22.5	15.0	8.0	4.5	7.0	13.0	14.5	20.5	---	28.5	29.0	27.5
14	22.5	---	7.0	4.5	6.5	---	14.5	20.5	---	28.5	29.0	27.5
15	22.5	14.0	6.5	4.0	7.0	---	14.5	20.5	25.0	28.5	29.0	28.0
16	22.5	13.5	6.0	4.0	6.5	---	15.0	20.0	25.0	29.0	29.0	28.0
17	22.5	13.0	5.5	4.0	6.5	---	15.0	20.0	25.5	29.0	29.5	28.0
18	22.5	13.0	5.5	4.0	6.0	---	15.0	20.5	25.5	29.0	29.5	28.0
19	22.0	12.5	6.0	4.0	6.5	---	---	20.5	26.0	29.0	29.5	28.0
20	21.5	12.0	6.0	4.5	6.0	---	---	21.0	26.0	29.5	29.5	28.0
21	21.5	11.5	6.0	5.0	6.0	---	---	21.0	26.5	30.0	29.5	28.0
22	21.0	11.0	6.0	5.5	6.0	---	---	21.0	26.5	30.0	29.0	28.0
23	21.0	10.0	6.5	6.0	6.0	14.0	---	21.5	27.0	30.0	28.5	28.0
24	20.5	9.5	6.5	6.0	6.0	14.0	---	21.5	27.0	30.0	29.0	27.5
25	20.0	9.5	6.0	6.5	6.5	14.0	---	22.0	27.5	30.0	28.5	27.5
26	19.5	9.0	6.0	7.0	6.5	14.0	---	22.0	27.5	30.5	29.0	27.5
27	19.0	8.5	6.0	6.5	7.0	14.0	17.0	22.5	27.5	30.5	29.0	27.0
28	18.0	8.5	5.5	7.0	7.0	14.0	17.0	22.5	28.0	30.5	29.0	27.0
29	17.5	8.5	5.5	6.5	---	14.0	17.0	22.5	28.0	31.0	29.0	27.0
30	17.0	8.0	6.0	6.5	---	14.0	17.0	23.0	28.0	31.0	29.0	26.5
31	15.5	---	6.5	6.5	---	14.0	---	23.0	---	31.0	29.0	---
AVG.	22.0	13.0	7.0	6.0	6.5	---	---	20.5	---	29.0	29.5	28.0

LOWER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER MAIN STEM

07374522 MISSISSIPPI RIVER AT VIOLET, LA.

LOCATION.--Lat 29°52'52", long 89°54'02", T.14 S., R.13 E., St. Bernard Parish, 300 ft from left bank at village of River Bend, 1.0 mile south of Violet.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Chemical analyses: January to September 1973.

REMARKS.--Samples are collected at surface and 50 ft below surface.

CHEMICAL ANALYSES, JANUARY TO SEPTEMBER 1973

DATE	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NES- IUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
JAN.												
10...	7.1	70	35	3.9	12	2.8	100	44	16	.6	.52	182
10...	6.2	40	34	9.7	13	2.5	109	44	16	.3	.34	202
17...	--	60	--	--	--	--	109	46	20	--	.45	178
17...	--	20	--	--	--	--	112	41	18	--	.43	200
25...	--	10	--	--	--	--	107	39	22	--	--	192
25...	--	20	--	--	--	--	110	39	23	--	--	206
FEB.												
07...	6.4	170	34	10	15	2.6	108	41	21	.4	.38	228
07...	5.9	20	36	9.7	16	2.7	108	41	22	.4	.34	226
14...	--	20	--	--	--	--	121	42	20	--	.40	220
14...	--	10	--	--	--	--	115	43	20	--	.50	212
21...	--	80	--	--	--	--	122	45	21	--	.54	228
21...	--	40	--	--	--	--	119	46	21	--	.40	242
MAR.												
02...	--	40	--	--	--	--	110	41	18	--	.40	210
02...	--	40	--	--	--	--	114	42	17	--	.40	214
08...	9.0	40	34	11	14	2.2	117	42	18	.3	.50	198
08...	13	30	35	10	14	2.3	117	39	19	.3	.50	200
15...	--	20	--	--	--	--	134	46	28	--	.38	244
15...	--	20	--	--	--	--	140	45	29	--	.38	242
21...	--	20	--	--	--	--	115	40	24	--	.52	207
21...	--	20	--	--	--	--	121	40	24	--	.52	208
29...	--	20	--	--	--	--	102	31	19	--	.45	202
29...	--	30	--	--	--	--	105	30	19	--	.43	188
APR.												
04...	11	50	32	11	13	2.8	108	37	17	.2	.52	201
04...	9.5	50	34	10	12	3.0	110	38	18	.2	.47	208
12...	--	40	--	--	--	--	106	36	14	--	.61	200
12...	--	40	--	--	--	--	106	36	15	--	.59	201
18...	--	30	--	--	--	--	110	36	17	--	.61	206
27...	--	0	--	--	--	--	117	40	19	--	.47	228
27...	--	0	--	--	--	--	127	41	19	--	.54	234
MAY												
03...	7.4	20	34	9.5	12	2.5	110	35	16	.3	.43	219
03...	6.4	10	35	5.6	13	2.5	118	35	16	.4	.45	226
11...	--	20	--	--	--	--	103	30	12	--	.50	177
11...	--	0	--	--	--	--	110	30	12	--	.54	194
18...	--	0	--	--	--	--	121	34	16	--	.52	162
18...	--	0	--	--	--	--	115	34	14	--	.52	175
24...	--	10	--	--	--	--	125	36	15	--	.99	196

LOWER MISSISSIPPI RIVER BASIN

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MISSISSIPPI RIVER MAIN STEM

07374522 MISSISSIPPI RIVER AT VIOLET, LA.--Continued

CHEMICAL ANALYSES, JANUARY TO SEPTEMBER 1973--Continued

DATE	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
MAY												
24...	--	0	--	--	--	--	125	36	15	--	.99	201
31...	--	20	--	--	--	--	124	38	16	--	1.0	225
31...	--	40	--	--	--	--	124	--	19	--	1.0	213
JUNE												
07...	--	30	--	--	--	--	126	38	16	--	1.0	199
14...	6.2	40	36	10	15	2.5	120	44	18	.2	.50	221
14...	6.0	90	37	11	15	2.5	130	37	18	.3	.60	228
21...	--	40	--	--	--	--	121	41	18	--	1.0	212
28...	--	0	--	--	--	--	139	37	18	--	.90	223
28...	--	20	--	--	--	--	136	38	17	--	1.1	226
JULY												
05...	4.7	0	39	12	17	2.8	135	44	19	.3	1.1	237
12...	--	20	--	--	--	--	143	43	22	--	.70	236
12...	--	0	--	--	--	--	153	44	22	--	.80	255
18...	--	10	--	--	--	--	144	48	24	--	.70	263
18...	--	0	--	--	--	--	150	49	26	--	.40	272
26...	--	0	--	--	--	--	166	62	23	--	1.3	249
26...	--	0	--	--	--	--	172	56	25	--	1.0	274
AUG.												
02...	--	10	--	--	--	--	156	52	27	--	1.1	280
02...	--	--	--	--	--	--	161	52	24	--	1.4	290
09...	--	0	--	--	--	--	156	55	29	--	1.5	240
16...	7.0	0	43	11	21	3.4	124	48	27	.6	1.5	225
16...	6.9	70	43	11	21	3.2	122	49	28	.6	1.1	219
23...	--	20	47	13	--	--	149	57	28	--	1.2	294
30...	--	0	49	14	--	--	158	62	25	--	1.1	287
SEP.												
06...	--	0	46	13	--	--	147	66	27	--	.77	306
06...	--	0	46	13	--	--	148	64	27	--	.86	305
14...	5.3	0	46	13	25	3.3	155	53	29	.7	.69	285
14...	--	0	--	--	--	--	--	--	--	--	--	--
20...	--	--	50	14	--	--	163	62	38	--	.60	308
20...	--	--	49	14	--	--	163	64	38	--	.63	290
26...	--	0	--	--	--	--	182	62	39	--	.30	288

LOWER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER MAIN STEM

07374522 MISSISSIPPI RIVER AT VIOLET, LA.--Continued

CHEMICAL ANALYSES, JANUARY TO SEPTEMBER 1973--Continued

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITU- ENTS) (MG/L)	SUS- PENDED SOLIDS (MG/L)	HARD- NESS (CAL/MG) (MG/L)	NOV- CAR- BONATE HARD- NESS (MG/L)	SPF- CIFIC CON- DUCTI- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	CULOR (PLAT- INUM- COBALT) UNITS)	TUR- BID- ITY (MG/L)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)
JAN.												
10...	178	344	120	42	304	4.5	15	110	7.1	10.8	3.2	.036
10...	151	--	120	35	308	4.5	20	57	6.5	10.8	2.7	.049
17...	--	444	130	41	322	5.5	25	75	7.2	10.8	--	.042
17...	--	214	130	38	324	5.0	20	90	7.5	10.6	--	.033
25...	--	135	130	42	337	7.0	25	59	7.1	10.7	1.2	.16
26...	--	100	130	40	336	5.0	20	50	7.2	10.7	1.4	.18
FEB.												
07...	155	408	130	38	325	8.5	15	65	7.5	10.0	3.8	.014
07...	158	415	130	41	330	8.5	15	81	7.5	10.1	3.5	.12
14...	--	264	140	39	334	8.5	15	93	7.9	10.0	2.5	.033
14...	--	245	130	39	338	9.0	10	92	7.7	9.9	2.8	.036
21...	--	262	150	48	347	6.0	20	89	7.2	10.5	2.5	.045
21...	--	285	150	50	351	5.0	15	87	7.3	10.4	2.4	.095
MAR.												
02...	--	198	130	40	301	7.0	10	94	7.2	10.4	1.7	.072
02...	--	150	120	25	312	8.0	20	94	7.5	10.3	2.0	.065
08...	190	135	130	34	326	10.0	20	72	7.4	9.9	3.3	.052
08...	193	134	130	34	321	10.0	15	74	7.6	9.7	2.0	.062
15...	--	155	150	35	344	13.5	15	53	7.5	8.7	--	.098
15...	--	74	150	40	348	14.0	20	70	7.9	8.9	--	.091
21...	--	350	130	36	341	14.5	20	130	7.5	8.2	1.7	.073
21...	--	484	130	31	348	14.5	20	110	8.0	8.2	1.6	.058
24...	--	193	120	31	299	13.5	20	29	7.4	8.6	1.8	.099
29...	--	165	120	30	300	14.5	20	52	7.4	8.2	1.7	.065
APR.												
04...	174	447	130	37	281	14.5	25	97	7.2	7.2	1.1	.024
04...	151	395	130	35	307	14.5	20	69	7.7	7.5	1.2	.026
12...	--	214	120	33	305	14.0	20	65	7.5	7.9	1.5	.029
12...	--	310	120	33	303	14.5	25	84	7.5	8.4	1.3	.029
14...	--	119	120	30	310	15.0	20	69	7.1	8.0	6.1	.039
27...	--	155	130	34	338	17.5	20	76	7.1	7.9	1.8	.034
27...	--	165	140	31	334	18.0	20	76	7.4	8.3	2.3	.035
MAY												
03...	173	247	120	34	315	18.5	20	91	7.0	7.7	3.8	.019
03...	177	290	120	25	316	18.5	--	92	7.9	7.9	2.4	.027
11...	--	401	110	28	278	20.0	--	75	6.7	8.3	--	.034
11...	--	547	120	27	291	20.5	--	85	6.9	8.3	--	.050
14...	--	271	120	19	303	--	25	100	7.5	--	--	.016
18...	--	194	120	28	306	--	10	80	7.2	--	--	.033
24...	--	110	120	19	310	23.0	10	85	7.3	7.4	6.5	.024

LOWER MISSISSIPPI RIVER BASIN

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MISSISSIPPI RIVER MAIN STEM

07374522 MISSISSIPPI RIVER AT VIOLET, LA.--Continued

CHEMICAL ANALYSES, JANUARY TO SEPTEMBER 1973--Continued

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	SUS- PENDED SOLIDS (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (MG/L)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)
MAY												
24...	--	99	120	18	307	22.0	15	95	7.5	7.4	3.4	.028
31...	--	119	130	20	322	22.0	10	75	7.1	6.3	3.0	.038
31...	--	217	120	20	328	22.0	20	81	7.4	6.3	2.4	.034
JUNE												
07...	--	149	130	29	340	23.0	10	79	7.3	6.2	.8	.055
14...	194	100	130	34	343	24.0	10	76	7.1	7.6	1.2	.046
14...	195	94	140	29	352	24.0	10	75	7.7	7.5	3.2	.003
21...	--	52	130	33	343	27.0	10	40	7.4	6.1	.9	.072
28...	--	76	140	31	350	28.0	10	45	7.2	7.1	1.0	.062
28...	--	91	140	27	347	27.0	10	51	7.4	7.1	2.9	.041
JULY												
05...	211	85	150	35	366	28.0	10	53	7.9	7.3	1.9	.051
12...	--	62	160	39	406	29.0	50	25	7.6	6.5	--	.018
12...	--	68	160	30	402	28.0	50	53	8.2	6.5	--	.027
18...	--	109	160	44	531	32.0	50	67	7.8	6.5	--	.057
18...	--	194	160	41	420	32.0	50	99	8.1	6.5	--	.054
25...	--	65	170	35	434	31.5	10	28	7.6	7.0	.2	.14
26...	--	179	172	31	441	32.0	10	75	8.1	6.2	.1	.14
AUG.												
02...	--	104	170	42	444	30.0	10	60	7.4	--	--	.13
02...	--	78	170	38	434	31.0	15	79	7.8	--	--	.17
09...	--	138	190	57	480	29.0	10	42	7.7	6.0	1.2	.21
16...	229	70	150	51	415	27.5	20	32	7.5	7.3	.3	--
16...	228	248	150	53	414	28.0	30	30	8.0	6.7	.3	--
23...	--	--	170	49	463	29.0	7	28	7.5	5.4	.4	--
30...	--	19	180	48	478	28.5	8	25	7.7	6.4	.8	--
SEP.												
06...	--	34	170	48	469	26.0	10	--	7.6	6.9	5.7	--
06...	--	132	170	47	457	26.0	10	33	7.8	7.4	5.0	--
14...	255	23	170	41	466	27.0	20	30	7.5	6.3	2.0	--
14...	--	--	--	--	--	27.0	--	--	--	6.2	2.6	--
20...	--	4	180	49	517	--	10	--	7.7	--	--	--
20...	--	14	180	46	510	--	10	--	8.0	--	--	--
26...	--	19	190	41	492	27.5	10	12	7.7	8.1	1.9	.25

LOWER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER MAIN STEM

07374522 MISSISSIPPI RIVER AT VIOLET, LA.--Continued

CHEMICAL ANALYSES, JANUARY TO SEPTEMBER 1973--Continued

DATE	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CJ) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	CYANIDE (CN) (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)	DEPTH (FT)
JAN.												
10...	5600	1000	0	0	<10	<.5	10	20	.00	11	1	--
10...	--	360	0	0	<10	.7	7	30	.00	9.0	1	50
17...	7600	650	3	0	<10	<.5	0	70	.00	--	0	--
17...	27000	980	0	0	<10	.8	0	110	.00	--	2	50
26...	--	--	3	0	<10	<.5	0	90	.00	--	19	--
26...	--	--	0	0	<10	<.5	0	60	.00	--	24	50
FEB.												
07...	4600	480	5	0	<10	<.5	0	30	.00	.0	5	--
07...	1000	200	0	0	<10	<.5	0	90	.00	7.0	5	50
14...	340	20	2	0	<10	.5	0	100	.00	--	0	--
14...	3000	50	1	0	<10	<.5	<5	50	.00	--	0	50
21...	2400	480	--	--	--	--	--	--	--	--	--	--
21...	1800	440	--	--	--	--	--	--	--	--	--	--
MAR.												
02...	3800	200	3	0	<10	<.5	20	10	.00	--	1	--
02...	2500	20	2	0	<10	<.5	<5	30	.00	--	1	50
08...	1500	600	0	0	<10	<.5	40	10	.00	2.0	2	--
08...	1600	310	0	0	<10	<.5	<5	50	.00	1.0	3	50
15...	--	--	2	1	<10	<.5	0	10	.00	--	1	--
15...	--	--	1	0	<10	<.5	0	20	.00	--	0	50
21...	16000	1000	0	0	<10	<.5	0	10	.00	--	1	--
21...	9500	3800	0	0	<10	<.5	0	20	.00	--	1	50
29...	15000	2000	0	0	<10	<.5	0	10	.00	--	0	--
29...	10000	1400	0	0	<10	<.5	0	40	.00	--	0	50
APR.												
04...	62000	4200	1	0	<10	<.5	5	30	.00	.0	1	--
04...	59000	4000	1	1	<10	<.5	15	20	.00	1.0	0	50
12...	58000	4800	0	0	<10	<.5	0	0	.00	--	0	--
12...	49000	4500	0	0	<10	<.5	0	50	.00	--	0	50
18...	3000	260	0	0	<10	<.5	0	0	.00	--	1	--
27...	25000	2200	0	0	<10	<.5	0	0	.00	--	0	--
27...	25000	6000	0	0	<10	<.5	0	20	.00	--	0	50
MAY												
03...	4600	360	0	0	<10	<.5	0	30	.00	--	0	--
03...	8800	280	0	0	<10	<.5	0	40	.00	--	2	50
11...	--	--	0	0	<10	<.5	0	30	.00	1.0	0	--
11...	--	--	1	0	<10	<.5	0	40	.00	1.0	1	50
18...	--	--	0	0	<10	<.5	0	10	.00	--	0	--
18...	--	--	0	0	<10	<.5	0	20	.00	--	2	50
24...	--	2900	0	0	<10	<.5	0	0	.00	--	5	--

LOWER MISSISSIPPI RIVER BASIN

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MISSISSIPPI RIVER MAIN STEM

07374522 MISSISSIPPI RIVER AT VIOLET, LA.--Continued

CHEMICAL ANALYSES, JANUARY TO SEPTEMBER 1973--Continued

DATE	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CADMIUM (CD) (UG/L)	HEXA- VALENT CHROMIUM (CR6) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	CYANIDE (CN) (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)	DEPTH (FT)
MAY												
24...	2000	1300	0	0	<10	<.5	0	10	.00	--	21	50
31...	--	--	0	0	<10	<.5	0	20	.00	--	0	--
31...	--	--	0	0	<10	<.5	0	50	.00	--	4	50
JUNE												
07...	45000	1600	0	0	<10	<.5	0	10	.00	.0	15	--
14...	5000	450	0	0	<10	<.5	0	20	.00	--	2	--
14...	3300	400	0	0	<10	<.5	0	70	.00	--	73	50
21...	7400	600	0	0	<10	<.5	0	10	.00	--	0	--
28...	2200	470	0	0	<10	<.5	0	0	.00	--	0	--
28...	4400	270	0	0	<10	<.5	0	30	.00	--	3	50
JULY												
05...	20000	1100	0	0	<10	<.5	0	0	.00	.0	3	--
12...	8000	1600	0	0	<10	<.5	0	0	.00	--	0	--
12...	8800	1800	0	0	<10	<.5	0	0	.00	--	0	50
18...	12000	1000	0	0	<10	<.5	0	0	.00	--	0	--
18...	14000	5600	0	0	<10	<.5	0	0	.00	--	0	50
26...	7000	--	0	0	<10	.5	0	0	.00	--	0	--
26...	9800	--	0	0	<10	.5	0	0	.00	--	0	50
AUG.												
02...	7000	300	0	1	<10	<.5	0	30	.00	--	0	--
02...	7400	300	0	1	<10	<.5	0	30	.00	--	0	50
09...	9800	500	0	0	<10	<.5	0	0	.00	4.0	1	--
16...	--	3000	0	0	<10	<.5	<5	0	.00	--	2	--
16...	--	3100	0	0	<10	<.5	<5	0	.00	--	0	50
23...	18000	2400	0	0	<10	<.5	0	10	.00	--	1	--
30...	32000	4400	0	0	<10	<.5	0	0	.00	--	0	--
SEP.												
06...	15000	1800	0	0	<10	<.5	0	0	.00	1.0	0	--
06...	20000	2100	0	1	<10	<.5	0	0	.00	.0	0	50
14...	28000	300	0	0	<10	<.5	0	10	.00	--	0	--
14...	24000	400	0	0	<10	<.5	0	0	.00	--	4	50
20...	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
26...	12000	4800	0	0	<10	<.5	0	0	.00	--	0	--

LOWER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER MAIN STEM

07374550 MISSISSIPPI RIVER AT VENICE, LA.

LOCATION.--Lat 29°16'33", long 89°21'10", T.21 S., R.31 E., Plaquemines Parish, near center of river at mile 10.7 at Venice.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Chemical analyses: January to September 1973 (partial-record station).

CHEMICAL ANALYSES, JANUARY TO SEPTEMBER 1973

DATE	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM SIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
JAN.												
10...	8.5	--	36	7.3	12	2.5	100	41	17	.3	.45	210
17...	--	30	--	--	--	--	116	43	19	--	.36	218
25...	--	10	--	--	--	--	116	37	20	--	--	190
FEB.												
01...	--	0	--	--	--	--	120	41	19	--	.34	250
07...	6.7	20	33	12	16	2.7	109	41	21	.4	.34	202
21...	--	30	--	--	--	--	120	45	21	--	.40	236
MAR.												
01...	--	40	--	--	--	--	113	42	18	--	.30	212
08...	11	40	34	10	14	2.3	112	39	18	.4	.50	198
15...	--	30	--	--	--	--	140	46	26	--	.43	241
21...	--	50	--	--	--	--	126	44	25	--	.50	225
29...	--	40	--	--	--	--	107	33	21	--	.47	213
APR.												
02...	11	50	34	9.0	15	2.9	109	38	21	.3	.45	220
12...	--	80	--	--	--	--	117	36	18	--	.61	209
18...	--	60	--	--	--	--	112	36	16	--	.56	212
26...	--	0	--	--	--	--	122	41	19	--	.50	237
MAY												
03...	6.7	10	35	9.8	13	2.6	115	36	17	.4	.59	228
10...	--	10	--	--	--	--	111	30	16	--	.59	183
17...	--	0	--	--	--	--	114	34	14	--	.50	188
23...	--	0	--	--	--	--	128	37	16	--	.99	208
30...	--	10	--	--	--	--	128	38	17	--	1.1	213
JUNE												
07...	--	10	--	--	--	--	148	40	17	--	1.0	203
13...	5.9	120	38	10	16	2.5	126	42	20	.3	.60	225
20...	--	20	--	--	--	--	128	41	18	--	.97	209
27...	--	20	--	--	--	--	135	38	18	--	1.0	223
JULY												
04...	5.5	0	39	12	17	3.0	144	43	19	.4	1.1	252
12...	--	0	--	--	--	--	144	44	25	--	.70	268
18...	--	10	--	--	--	--	148	50	27	--	.70	263
25...	--	0	--	--	--	--	164	56	26	--	1.2	278
AUG.												
08...	--	20	--	--	--	--	152	60	25	--	1.4	207
15...	6.8	10	40	11	19	3.2	121	46	24	.5	1.4	212
22...	--	0	45	13	--	--	140	57	29	--	1.3	290
30...	--	20	48	14	--	--	155	63	28	--	.98	293
SEP.												
05...	--	0	47	13	--	--	154	63	29	--	1.0	315
13...	5.9	0	45	13	30	3.5	140	58	40	.7	.81	299
19...	--	0	48	15	--	--	161	65	59	--	.81	333
25...	--	10	--	--	--	--	171	62	53	--	.50	329

LOWER MISSISSIPPI RIVER BASIN

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MISSISSIPPI RIVER MAIN STEM

07374550 MISSISSIPPI RIVER AT VENICE, LA.--Continued

CHEMICAL ANALYSES, JANUARY TO SEPTEMBER 1973--Continued

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	SUS- PENDED SOLIDS (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (MG/L)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)
JAN.												
10...	176	120	120	38	302	5.5	15	110	7.1	10.7	2.1	.033
17...	--	390	130	35	333	4.5	20	70	7.7	10.6	--	.033
25...	--	106	120	25	315	8.0	20	69	8.3	10.9	--	.10
FEB.												
01...	--	186	140	42	381	8.0	30	87	7.3	10.6	1.8	.095
07...	189	350	130	40	322	7.5	20	59	7.6	10.0	4.0	.12
21...	--	266	150	50	352	7.0	10	69	7.5	10.5	2.8	.11
MAR.												
01...	--	286	140	47	317	8.0	15	76	7.2	10.7	2.2	.072
08...	185	116	130	34	316	9.0	10	72	7.7	11.4	4.8	.082
15...	--	93	150	31	394	14.0	20	55	7.9	9.4	2.9	.15
21...	--	132	140	37	365	14.0	20	100	7.6	8.0	2.9	.095
29...	--	151	120	34	314	14.5	25	70	7.6	8.1	1.5	.011
APR.												
02...	187	149	120	33	312	14.5	25	73	7.6	8.2	1.8	.033
12...	--	293	120	26	314	15.0	25	33	8.1	7.9	2.5	.029
18...	--	142	120	28	305	14.5	20	110	7.1	7.6	3.1	.022
26...	--	157	130	34	334	16.5	25	76	7.4	7.8	1.8	.043
MAY												
03...	180	192	130	34	323	19.5	--	105	7.6	7.7	5.9	.021
10...	--	256	110	23	276	20.5	--	151	7.1	6.7	4.1	.041
17...	--	186	120	26	302	--	20	100	7.2	--	--	.029
23...	--	112	120	17	310	22.0	10	85	7.7	7.4	5.1	.099
30...	--	161	130	22	323	22.0	25	56	7.3	6.0	1.6	.037
JUNE												
07...	--	152	130	13	339	24.0	20	63	8.1	5.9	1.9	--
13...	199	110	140	34	350	24.0	10	76	7.7	6.4	2.1	.046
20...	--	154	130	27	338	27.0	20	52	7.9	6.1	1.5	.064
27...	--	145	130	23	344	28.0	10	79	7.3	5.2	.8	.069
JULY												
04...	215	104	150	28	369	29.0	5	56	8.3	5.8	.6	.032
12...	--	78	150	35	402	29.0	10	47	8.0	5.8	--	.034
18...	--	71	160	44	421	32.0	10	40	8.1	6.4	--	.11
25...	--	8	170	35	443	30.5	5	6	7.8	5.6	.4	.11
AUG.												
08...	--	54	180	51	441	29.0	10	22	8.1	6.1	.6	.16
15...	217	64	150	46	400	29.0	10	27	7.9	6.1	.3	--
22...	--	33	170	51	455	29.0	10	30	7.5	5.8	.8	--
30...	--	12	180	50	480	28.5	7	21	7.7	6.2	.7	--
SEP.												
05...	--	22	170	45	475	26.5	10	25	7.8	7.0	1.2	--
13...	269	34	170	51	495	27.5	20	24	7.8	6.2	1.5	--
19...	--	5	180	50	584	--	10	--	7.7	--	--	--
25...	--	10	180	40	548	28.0	5	17	7.5	8.3	1.3	.28

LOWER MISSISSIPPI RIVER BASIN

MISSISSIPPI RIVER MAIN STEM

07374550 MISSISSIPPI RIVER AT VENICE, LA.--Continued

CHEMICAL ANALYSES, JANUARY TO SEPTEMBER 1973--Continued

DATE	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	CYANIDE (CN) (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)
JAN.											
10...	3800	660	2	0	10	1.2	15	10	.00	10	0
17...	11000	780	2	0	<10	<.5	0	40	.00	--	4
25...	--	400	1	0	<10	<.5	0	30	.00	--	4
FEB.											
01...	--	--	0	0	<10	<.5	0	50	.00	--	5
07...	7000	660	2	0	<10	<.5	0	50	.00	1.0	4
21...	--	1,200	0	0	<10	1.0	5	100	.00	--	0
MAR.											
01...	1200	--	0	2	<10	<.5	<5	80	.00	--	1
08...	1600	980	0	0	<10	<.5	<5	20	.00	2.0	2
15...	7000	900	0	0	<10	.8	5	10	.00	1.0	1
21...	7200	650	0	0	<10	<.5	0	20	.00	--	1
29...	12000	1500	0	0	<10	<.5	0	20	.00	--	1
APR.											
02...	15000	3400	0	0	<10	<.5	0	0	.00	1.0	0
12...	11000	1200	0	0	<10	<.5	0	0	.00	--	0
18...	1800	280	0	0	<10	<.5	0	0	.00	--	0
26...	6500	--	0	0	<10	<.5	0	0	.00	--	0
MAY											
03...	8200	160	0	0	<10	<.5	0	0	.00	--	2
10...	--	--	0	0	<10	<.5	0	20	.00	1.0	0
17...	--	--	0	0	<10	<.5	0	20	.00	--	0
23...	1500	700	0	0	<10	<.5	0	10	.00	--	2
30...	9000	2700	0	0	<10	<.5	0	10	.00	--	8
JUNE											
07...	11000	1400	0	0	<10	<.5	0	20	.00	3.0	0
13...	11000	3800	0	0	<10	<.5	0	20	.00	--	0
20...	30000	3700	0	1	<10	<.5	0	20	.00	--	3
27...	5600	--	0	0	<10	.5	0	0	.00	--	0
JULY											
04...	4200	850	0	0	<10	<.5	0	0	.00	.0	9
12...	2500	860	0	0	<10	<.5	0	0	.00	--	0
18...	2200	--	0	0	<10	.5	0	0	.00	--	0
25...	400	330	0	0	<10	<.5	0	20	.00	--	0
AUG.											
08...	5300	4400	0	1	<10	<.5	10	0	.01	3.0	1
15...	2100	220	0	0	<10	<.5	0	10	--	--	1
22...	1700	400	0	3	<10	<.5	0	20	.00	--	2
30...	4300	780	0	0	<10	<.5	0	0	.00	--	0
SEP.											
05...	4400	100	0	0	<10	<.5	0	20	.00	.0	0
13...	2000	--	0	1	<10	<.5	0	0	.00	--	0
19...	--	--	0	0	<10	<.5	0	0	.00	--	0
25...	900	250	0	0	<10	<.5	0	10	.00	--	0

MISSISSIPPI RIVER DELTA

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07378510 AMITE RIVER AT 4-H CLUB ROAD NEAR DEHNAM SPRINGS, LA.

LOCATION.--Lat 30°26'30", long 90°58'20", in lot 41, T.7 S., R.2 E., St. Helena meridian, Livingston Parish, on left bank at auxiliary gaging station, 3.0 miles southwest of town of Denham Springs, 3.2 miles downstream from Comite River, and 16.0 miles southeast of Baton Rouge.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--Chemical analyses: February to September 1973.
Water temperatures: March to September 1973.

REMARKS.--Continuous recorder at this station. Probes are 3 ft above bottom of river. Lower limit of conductivity recorder is 28 micromhos.

CHEMICAL ANALYSES, FEBRUARY TO SEPTEMBER 1973

DATE	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
FEB.										
06...	6.6	130	2.8	.7	3.7	1.5	12	2.2	4.0	.0
MAR.										
07...	4.4	190	3.1	1.0	2.6	2.1	18	3.2	3.8	.1
28...	2.1	120	1.3	.2	1.0	1.1	8	.4	1.3	.1
APR.										
23...	5.3	110	2.2	1.1	2.3	1.4	14	2.0	3.2	.1
JUNE										
05...	5.3	60	2.1	1.6	4.0	1.9	14	6.2	4.2	.0
28...	14	180	--	--	5.0	1.6	16	5.8	5.8	.0
JULY										
26...	13	--	3.4	1.3	5.0	1.8	16	2.6	6.4	.1
AUG.										
22...	9.7	170	2.6	1.3	5.0	2.1	16	4.2	6.0	.0
SEP.										
27...	14	220	3.4	.4	6.0	1.6	18	4.2	6.2	.0

DATE	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTIT- UENTS) (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCTI- VANCE (MICHO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (MG/L)	PH (UNITS)
FEB.										
06...	.10	39	28	10	0	45	15.0	20	43	6.5
MAR.										
07...	.30	79	31	12	0	48	17.5	50	40	6.2
28...	.90	49	12	4	0	17	16.0	30	87	6.0
APR.										
23...	.10	53	26	10	0	37	22.0	15	52	6.9
JUNE										
05...	.20	30	33	12	1	40	26.5	30	11	7.2
28...	.07	47	--	12	0	48	28.0	--	65	7.2
JULY										
26...	.10	46	42	14	1	47	27.5	20	20	6.6
AUG.										
22...	.09	45	39	12	0	46	27.0	20	20	6.5
SEP.										
27...	.07	48	46	12	0	54	27.5	50	33	7.0

CHEMICAL ANALYSES, FEBRUARY TO SEPTEMBER 1973--Continued

[illegible]

07378510 AMITE RIVER AT 4-H CLUB ROAD NEAR DENHAM SPRINGS, LA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), FEBRUARY TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1									---	---	---	---
2									---	---	73	56
3									---	---	55	51
4									---	---	72	42
5									---	---	46	37
6									---	---	37	34
7									---	---	43	36
8									---	---	41	37
9									---	---	37	33
10									---	---	35	33
11									---	---	56	36
12									---	---	46	36
13									---	---	36	31
14									---	---	34	31
15									---	---	42	34
16									---	---	53	42
17									---	---	49	38
18									---	---	38	31
19									---	---	36	31
20									---	---	74	36
21									---	---	46	40
22									---	---	40	35
23									---	---	42	38
24									---	---	79	37
25									---	---	36	---
26									---	---	28	---
27									---	---	28	---
28									---	---	28	---
29									---	---	28	---
30									---	---	33	---
31									---	---	45	33
AVG.									---	---	79	---
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	35	29	37	36	---	---	56	49	61	43	49	47
2	29	---	41	38	---	---	50	49	70	52	53	47
3	33	29	54	41	---	---	51	50	52	41	54	51
4	37	33	45	29	---	---	52	51	41	39	71	53
5	94	37	28	---	---	---	54	48	42	39	80	67
6	39	38	28	---	---	---	87	48	45	43	74	52
7	64	---	40	---	---	---	56	38	48	46	51	34
8	28	---	---	---	---	---	39	37	65	49	34	31
9	28	---	---	---	---	---	41	38	53	51	34	32
10	28	---	---	---	---	---	44	41	52	50	48	35
11	31	---	---	---	---	---	52	44	55	52	52	42
12	36	31	---	---	---	---	50	48	56	51	52	43
13	39	36	---	---	---	---	49	47	68	47	66	30
14	41	39	---	---	---	---	57	47	54	47	30	---
15	40	40	---	---	---	---	54	49	53	46	33	---
16	57	---	---	---	---	---	51	49	49	45	43	33
17	28	---	---	---	---	---	68	50	77	47	48	43
18	28	---	---	---	---	---	67	60	73	51	50	48
19	28	---	---	---	---	---	67	59	53	44	52	50
20	28	---	---	---	---	---	95	68	40	41	53	52
21	28	---	---	---	---	---	---	---	47	46	53	49
22	28	---	---	---	---	---	---	---	48	42	53	52
23	31	---	---	---	---	---	---	---	47	47	53	52
24	36	31	---	---	---	---	---	---	48	47	54	49
25	37	36	---	---	---	---	---	---	49	47	53	53
26	41	---	---	---	---	---	---	---	50	48	54	53
27	28	---	---	---	48	47	---	---	49	47	59	53
28	28	---	---	---	48	47	---	---	59	49	116	60
29	31	---	---	---	49	48	---	---	57	50	62	57
30	36	31	---	---	52	48	---	---	58	49	65	52
31	---	---	---	---	---	---	42	39	50	48	---	---
AVG.	94	---	---	---	---	---	---	---	77	39	116	30

MISSISSIPPI RIVER DELTA

07378510 AMITE RIVER AT 4-H CLUB ROAD NEAR DENHAM SPRINGS, LA.--Continued

TEMPERATURE (°C) OF WATER, FEBRUARY TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
									MAX	MIN	MAX	MIN
1									---	---	---	---
2									---	---	18.0	17.0
3									---	---	20.0	18.0
4									---	---	20.0	18.0
5									---	---	19.5	18.0
6									---	---	18.5	17.5
7									---	---	20.5	18.5
8									---	---	20.5	19.5
9									---	---	20.0	19.0
10									---	---	20.5	20.0
11									---	---	21.5	20.5
12									---	---	21.0	20.0
13									---	---	21.5	21.0
14									---	---	22.0	21.5
15									---	---	23.5	22.5
16									---	---	23.5	21.0
17									---	---	20.5	18.5
18									---	---	18.5	17.5
19									---	---	18.5	18.0
20									---	---	19.5	18.5
21									---	---	19.5	18.5
22									---	---	18.5	17.5
23									---	---	18.5	18.0
24									---	---	18.5	17.5
25									---	---	19.0	18.0
26									---	---	18.5	17.0
27									---	---	16.5	15.5
28									---	---	15.5	15.0
29									---	---	15.0	14.5
30									---	---	16.0	15.0
31									---	---	18.5	16.0
AVG.									---	---	23.5	14.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.5	17.5	18.0	17.5	---	---	31.5	29.0	30.0	28.5	29.0	27.5
2	19.5	18.0	19.0	17.5	---	---	32.0	29.5	29.0	27.5	28.0	27.0
3	18.5	18.5	19.5	18.0	---	---	32.5	30.0	29.5	27.0	27.0	26.0
4	18.5	17.5	19.0	18.0	---	---	32.0	30.0	29.5	27.0	26.5	25.5
5	17.5	16.5	18.5	17.5	---	---	31.0	30.0	29.0	27.5	25.5	25.0
6	17.0	15.5	18.0	17.0	---	---	29.5	28.0	30.0	27.5	25.5	25.0
7	15.5	14.0	17.0	16.5	---	---	28.0	26.5	30.5	28.0	25.5	23.5
8	14.5	14.0	17.0	17.0	---	---	30.0	27.0	29.5	28.0	26.0	24.5
9	15.0	14.5	---	---	---	---	31.5	28.5	31.0	28.0	26.0	25.5
10	14.5	14.0	---	---	---	---	32.0	29.5	31.5	28.5	26.0	25.0
11	15.0	14.0	---	---	---	---	31.5	29.5	30.5	29.5	27.0	26.0
12	15.0	15.0	---	---	---	---	32.0	29.0	30.0	28.5	27.0	25.5
13	17.5	16.0	---	---	---	---	31.5	29.0	30.0	28.0	25.0	24.0
14	19.0	17.0	---	---	---	---	30.5	29.0	29.5	28.0	25.5	25.0
15	19.0	18.5	---	---	---	---	31.0	28.5	30.0	28.0	26.0	25.0
16	18.0	17.5	---	---	---	---	32.0	29.0	29.0	28.0	26.0	25.5
17	17.5	17.0	---	---	---	---	32.0	29.5	28.0	27.0	26.0	25.5
18	17.0	16.5	---	---	---	---	33.0	30.0	29.5	26.5	25.5	24.5
19	17.5	17.0	---	---	---	---	32.0	31.0	30.0	28.0	25.0	23.5
20	17.5	17.5	---	---	---	---	32.5	29.5	30.0	27.5	26.0	23.5
21	19.0	17.0	---	---	---	---	31.0	28.0	30.5	28.0	26.5	24.5
22	19.0	17.5	---	---	---	---	30.5	28.0	29.5	27.0	27.0	25.0
23	19.0	18.0	---	---	---	---	31.0	29.0	29.5	26.5	27.0	25.5
24	19.5	18.5	---	---	---	---	31.0	29.5	29.5	27.0	27.5	25.5
25	20.0	19.0	---	---	---	---	30.5	29.0	30.0	27.5	28.0	26.0
26	20.0	19.0	---	---	---	---	30.0	28.5	29.5	27.5	28.0	26.0
27	19.0	18.0	---	---	31.0	29.5	31.0	28.0	28.5	27.0	27.0	26.0
28	18.0	17.0	---	---	31.0	28.5	31.0	27.5	28.5	26.5	26.5	25.5
29	17.5	17.0	---	---	30.5	28.5	31.5	28.5	29.0	26.5	26.5	25.0
30	18.0	17.5	---	---	31.0	28.5	31.0	30.0	29.0	27.5	26.5	25.5
31	---	---	---	---	---	---	31.5	29.5	29.5	27.0	---	---
AVG.	20.0	14.0	---	---	---	---	33.0	26.5	31.5	26.5	29.0	23.5

MISSISSIPPI RIVER DELTA

07381200 BAYOU LAFOURCHE AT VALENTINE, LA.

LOCATION.--Lat 29°35'35", long 90°28'25", on line between lots 96 and 98, T.17 S., R.20 E., Lafourche Parish, at gaging station on bridge on State Highway 308, at Valentine, 5.7 miles south of Lockport, and 5.2 miles upstream from Intracoastal Waterway.

PERIOD OF RECORD.--Chemical analyses: March to August 1956, October 1958 to September 1959, January 1970 to September 1973.

REMARKS.--Pumping plant at Donaldsonville total flow of Bayou Lafourche from Mississippi except for small amounts of storm drainage during freshets and some flow from Intracoastal Waterway entering at Lockport. Conductance recorder with probe 3 ft from stream bottom. Daily mean values are reported in daily conductance table.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED SILICA (SiO ₂) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO ₃) (MG/L)	DIS-SOLVED SULFATE (SO ₄) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)
NOV. 29...	--	--	--	--	--	--	--	--	--
DEC. 18...	--	--	--	--	--	--	--	--	--
MAR. 08...	5.2	70	36	12	15	4.0	125	42	21
JUNE 29...	13	40	29	7.9	17	3.2	112	12	25

DATE	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED RESIDUE AT 180 C (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)
NOV. 29...	--	--	--	--	--	--	433	12.5	--
DEC. 18...	--	--	--	--	--	--	398	10.0	--
MAR. 08...	.2	.70	242	200	140	35	358	19.0	10
JUNE 29...	.2	.60	175	165	100	14	289	31.5	100

DATE	TURBIDITY (MG/L)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	HEXA-VALENT CHROMIUM (CR6) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
NOV. 29...	10	--	9.2	--	--	--	--	--	--
DEC. 18...	15	--	9.8	--	--	--	--	--	--
MAR. 08...	65	6.9	6.5	0	0	<10	<.5	30	0
JUNE 29...	95	6.8	5.4	0	0	<10	<.5	0	0

MISSISSIPPI RIVER DELTA

07381200 BAYOU LAFOURCHE AT VALENTINE, LA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	--	370	370	410	300	395	280	--	380	680	340	400
2	--	375	335	410	395	485	280	--	390	610	360	385
3	--	375	335	400	420	560	275	--	395	440	350	480
4	350	370	360	400	450	540	280	220	380	390	360	1,200
5	360	350	360	400	450	530	275	235	370	395	370	2,400
6	460	360	360	400	440	440	300	215	350	395	395	3,700
7	1,010	370	320	400	430	410	--	210	360	390	400	3,000
8	1,010	380	300	440	430	430	--	225	370	390	400	1,400
9	900	390	330	440	460	430	--	230	370	400	450	800
10	840	400	330	460	480	430	--	230	360	400	430	600
11	850	385	335	460	485	430	--	230	355	380	400	480
12	1,010	385	340	460	485	430	--	230	365	370	390	520
13	960	370	340	465	485	430	--	260	370	360	410	480
14	760	360	340	435	430	440	--	255	370	350	410	370
15	500	340	340	420	420	445	--	260	370	370	435	350
16	440	345	335	420	420	460	--	280	350	480	420	320
17	480	360	335	445	350	480	--	280	320	660	415	300
18	460	360	390	470	330	490	--	270	355	740	440	310
19	480	290	410	400	310	490	--	270	370	750	475	330
20	480	240	450	260	360	490	--	275	360	680	480	320
21	460	230	500	260	370	500	--	275	360	520	480	340
22	3,000	240	500	300	360	520	--	290	370	420	510	340
23	>6,000	245	500	290	375	520	--	290	375	400	420	335
24	5,600	230	500	280	380	390	--	300	360	395	395	330
25	4,600	240	500	290	370	300	--	300	375	370	380	330
26	5,200	270	500	280	375	290	--	305	380	340	380	335
27	4,400	e310	500	300	390	285	--	305	400	320	390	355
28	1,600	e350	500	295	395	280	--	320	380	330	390	340
29	360	e400	400	265	---	280	--	410	450	330	395	340
30	360	e350	370	260	---	280	--	550	700	335	395	340
31	360	---	395	300	---	280	---	370	---	335	410	---
AVERAGE	--	316	392	371	405	441	--	--	383	440	393	718

> Greater than amount shown.

MISSISSIPPI RIVER DELTA

233

07381490 ATCHAFALAYA RIVER AT SIMMESPORT, LA.

LOCATION.--Lat 39°50'57", long 91°47'54", in sec.7, T.1 S., R.7 E., Louisiana meridian, Avoyelles Parish, near west bank on Kansas City Southern Railway bridge, 0.4 miles east of town of Simmesport, 0.5 miles upstream from State Highway 1, and 4.9 miles downstream from confluence of Red River and Old River (head of Atchafalaya River).

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Chemical analyses: November 1972 to September 1973 (partial-record station).

CHEMICAL ANALYSES, NOVEMBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED SILICA (SiO ₂) (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO ₃) (MG/L)	DIS-SOLVED SULFATE (SO ₄) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
NOV. 21...	12	36	11	16	3.0	118	44	19	.2	.11	224	200
DEC. 21...	9.2	26	7.1	14	2.2	89	29	18	.2	.09	164	150
JAN. 04...	8.3	26	7.1	12	2.4	80	29	17	.2	.20	173	143
FEB. 27...	7.1	25	6.7	16	2.0	86	28	20	.2	.18	177	148
MAR. 15...	8.3	29	6.2	18	2.6	97	26	23	.2	.14	192	162
APR. 11...	2.7	32	7.3	12	2.7	102	28	14	.2	.50	172	151
MAY 03...	3.9	30	8.3	10	3.2	102	31	15	.2	.90	172	155
JUNE 20...	3.3	32	5.1	17	3.0	108	20	21	.1	.50	169	157
JULY 18...	5.7	29	9.4	18	3.4	102	30	23	.2	.70	192	172
AUG. 15...	7.7	38	13	19	3.5	140	48	22	.2	.90	250	224
SEP. 18...	3.7	34	11	23	3.8	129	39	25	.2	.50	238	204

DATE	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (MG/L)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	STREPTOCOCCI (COLONIES PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
NOV. 21...	130	37	353	--	10	65	6.8	--	--	.13	--	--
DEC. 21...	94	21	253	8.0	5	94	6.7	11.5	--	--	--	1700
JAN. 04...	94	28	259	9.0	15	32	6.9	10.0	3.6	--	540	540
FEB. 27...	90	19	261	9.0	40	74	6.8	10.3	2.1	.21	120	380
MAR. 15...	98	18	289	17.0	40	170	6.8	8.3	6.8	--	660	890
APR. 11...	110	26	284	14.5	20	40	6.6	8.5	6.9	--	--	400
MAY 03...	110	25	281	19.5	50	70	7.0	8.4	1.3	--	95	70
JUNE 20...	100	12	318	27.0	15	49	8.1	6.0	.3	--	--	--
JULY 18...	110	27	303	--	20	--	7.9	--	--	--	--	--
AUG. 15...	150	34	376	28.0	15	39	8.2	7.0	1.1	.016	120	500
SEP. 18...	130	24	364	27.0	25	37	7.9	6.5	1.0	--	--	840

MISSISSIPPI RIVER DELTA

07381490 ATCHAFALAYA RIVER AT SIMMESPORT, LA.--Continued

CHEMICAL ANALYSES, NOVEMBER 1972 TO SEPTEMBER 1973--Continued

DATE	ALDRIN (UG/L)	LINDANE (UG/L)	CHLOR- DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA- CHLOR (UG/L)
NOV. 21...	.00	.00	.0	.00	.00	.01	.01	.00	.00
MAR. 15...	.00	.00	.0	.00	.00	.02	.00	.00	.00
APR. 11...	.00	.00	.0	.00	.00	.00	.01	.00	.00
JUNE 20...	.00	.00	.0	.00	.00	.00	.01	.00	.00
AUG. 15...	.00	.00	.0	.00	.00	.00	.01	.01	.00

DATE	HEPTA- CHLOR EPOXIDE (UG/L)	PCB (UG/L)	MALA- THION (UG/L)	PARA- THION (UG/L)	METHYL PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
NOV. 21...	.00	--	.00	.00	.00	.00	.01	.00
MAR. 15...	.00	.0	.00	.00	.00	.03	.01	.01
APR. 11...	.00	.0	.00	.00	.00	.04	.01	.00
JUNE 20...	.00	.0	.00	.00	.00	.02	.01	.00
AUG. 15...	.00	--	.00	.00	.00	.02	.02	.00

MISSISSIPPI RIVER DELTA

235

07386935 VERMILION RIVER AT STATE HIGHWAY 3073, NEAR LAFAYETTE, LA.

LOCATION.--Lat 30°04'40", long 92°03'20", Lafayette Parish, at bridge on State Highway 3073, 4.1 miles downstream from Coulee Mine,,
5.1 miles downstream from Pinhook Bridge, and 4.8 miles southwest of Central School at Lafayette.

DRAINAGE AREA. Indeterminate.

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1973.

Water temperatures: October 1970 to September 1973.

EXTREMES.--1972-73:

Specific conductance: Maximum, 705 micromhos Sept. 4; minimum, 20 micromhos Sept. 6.

REMARKS.--Continuous records are collected at this station. Probes are 2 ft from river bottom.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
NOV. 15...	1.3	80	10	2.2	14	6.1	40	5.0	20	.1	.50	120
30...	--	--	--	--	--	--	--	--	--	--	--	--
DEC. 04...	5.3	50	13	4.3	22	4.0	53	11	28	.1	.30	150
18...	--	--	--	--	--	--	--	--	--	--	--	--
JAN. 18...	1.4	160	13	3.3	20	3.1	54	8.0	25	.1	.30	131
FEB. 08...	--	430	--	--	--	--	--	--	--	--	--	--
MAR. 19...	6.0	--	11	4.0	12	4.0	57	1.6	18	.2	.60	--
APR. 19...	2.4	--	7.9	3.5	3.4	3.8	37	2.8	5.3	.2	.60	105
MAY 16...	6.8	220	14	4.1	8.6	4.2	68	2.8	14	.2	.30	127
JUNE 07...	8.0	--	10	4.1	12	4.8	44	8.2	18	.3	.50	160
JULY 11...	10	10	20	5.8	22	4.2	87	8.6	29	.2	.40	158

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITU- ENTS) (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (MG/L)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	PHOS- PHATE (PO ₄) (MG/L)
NOV. 15...	81	34	1	157	--	40	30	6.8	--	--	--
30...	--	--	--	230	11.0	--	27	--	7.5	--	--
DEC. 04...	115	50	7	214	15.0	30	27	6.6	7.1	3.4	.65
18...	--	--	--	158	--	--	25	--	--	--	--
JAN. 18...	102	45	2	195	12.0	50	43	6.6	8.4	2.8	.02
FEB. 08...	--	--	--	--	10.5	--	48	--	--	--	--
MAR. 19...	88	44	0	170	19.0	40	45	6.7	4.0	1.0	--
APR. 19...	50	34	8	85	21.0	40	63	6.5	5.5	4.1	--
MAY 16...	--	--	--	--	--	--	--	--	--	--	--
16...	90	52	0	154	22.0	30	65	7.2	4.3	2.9	--
JUNE 07...	90	42	6	155	26.5	--	14	7.3	2.2	4.3	--
JULY 11...	145	74	3	255	32.0	50	14	8.0	2.4	--	--
SEP. 5...	--	--	--	215	25.0	--	28	--	5.8	--	--

MISSISSIPPI RIVER DELTA

07386935 VERMILION RIVER AT STATE HIGHWAY 3073, NEAR LAFAYETTE, LA.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	STREP- TOCOCOI (COL- ONIES PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	OIL AND GREASE (MG/L)
NOV. 15...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
DEC. 04...	--	--	5000	7600	18	0	<10	<.5	0	20	3.0
18...	--	--	--	--	--	--	--	--	--	--	--
JAN. 18...	--	7000	--	6000	--	--	--	--	--	--	--
FEB. 08...	.27	--	--	650	0	0	<10	<.5	0	20	--
MAR. 19...	--	--	160	800	--	--	--	--	--	--	--
APR. 19...	--	--	--	14000	--	--	--	--	--	--	--
MAY 16...	--	--	--	--	0	0	<10	<.5	0	0	1.0
16...	--	--	--	9000	--	--	--	--	--	--	--
JUNE 07...	.17	--	340	8400	--	--	--	--	--	--	--
JULY 11...	--	--	780	18000	--	--	--	--	--	--	--

DATE	ALDRIN (UG/L)	LINDANE (UG/L)	CHLOR- DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA- CHLOR (UG/L)
DEC. 04...	.00	.00	.0	.00	.00	.02	.01	.00	.00
FEB. 08...	.00	.00	.0	.00	.00	.02	.01	.00	.00
MAY 16...	.00	.00	.0	.01	.01	.03	.01	.00	.00
AUG. 02...	.00	.00	.0	.00	.00	.00	.00	.00	.00

DATE	HEPTA- CHLOR EPOXIDE (UG/L)	PCB (UG/L)	MALA- THION (UG/L)	PARA- THION (UG/L)	METHYL PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
DEC. 04...	.00	--	.00	.00	.00	.00	.00	.00
FEB. 08...	.00	.0	.00	.00	.00	.00	.00	.00
MAY 16...	.00	.0	.00	.00	.00	.16	.01	.19
AUG. 02...	.00	.0	.00	.00	.00	.00	.15	.07

07386935 VERMILION RIVER AT STATE HIGHWAY 3073, NEAR LAFAYETTE, LA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	295	280	289	365	245	279	220	195	206	220	130	155
2	295	280	288	370	215	254	230	200	216	250	155	178
3	395	295	336	595	220	317	285	220	243	335	160	237
4	535	355	419	285	245	265	295	235	270	220	165	202
5	390	265	277	270	220	250	390	220	291	225	160	197
6	355	285	317	310	220	251	310	75	153	215	170	192
7	375	340	358	285	210	239	125	95	108	230	215	219
8	355	320	341	220	215	220	280	130	217	235	165	200
9	355	315	335	255	220	229	265	195	220	530	180	293
10	355	315	335	295	220	257	260	125	180	190	170	182
11	390	320	349	275	235	251	240	155	199	245	195	220
12	395	320	342	340	255	282	375	160	272	200	180	189
13	355	320	342	395	265	335	255	150	181	360	170	241
14	395	350	359	560	120	235	220	155	184	420	225	324
15	375	355	362	160	120	135	200	115	143	335	215	263
16	395	355	365	170	120	131	135	105	115	270	210	227
17	405	365	371	235	195	209	155	125	136	335	215	241
18	415	365	375	355	200	260	150	130	141	315	220	261
19	415	365	380	235	105	142	200	150	175	250	165	203
20	450	365	413	110	85	104	270	195	228	285	200	242
21	395	370	384	120	105	111	235	105	158	310	190	225
22	550	350	418	150	110	122	160	110	132	390	130	223
23	575	305	410	165	155	162	130	110	118	285	155	216
24	285	150	176	380	165	211	135	110	120	160	155	157
25	210	150	171	535	155	260	120	110	115	210	160	185
26	610	195	269	285	120	189	125	110	119	245	145	173
27	500	205	263	310	160	199	155	110	124	295	160	218
28	345	135	212	225	150	174	135	115	122	265	155	201
29	300	220	250	220	160	183	165	130	150	130	120	125
30	340	220	257	220	195	215	220	150	170	175	125	150
31	340	225	267	---	---	---	285	130	182	205	155	170
AVG.	610	135	324	595	85	216	390	75	174	530	120	210
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	245	105	162	215	175	200	105	85	95	135	110	120
2	165	105	120	220	170	205	105	90	99	160	115	135
3	130	100	109	315	150	230	115	100	104	395	150	235
4	150	110	120	390	160	293	105	100	102	225	105	162
5	150	105	121	340	150	190	105	95	100	120	110	117
6	170	155	161	200	150	170	105	85	100	135	120	125
7	185	155	163	230	155	194	190	100	123	245	135	167
8	265	165	227	215	150	182	220	85	123	240	100	130
9	220	120	157	220	120	157	105	90	102	115	105	108
10	150	110	125	165	115	134	105	90	98	120	105	112
11	125	110	119	160	105	121	105	90	101	125	115	118
12	160	110	130	135	110	118	115	105	107	220	120	134
13	240	165	199	160	135	152	115	105	107	185	115	142
14	210	125	175	215	160	190	120	100	106	165	125	139
15	170	125	151	240	210	220	120	105	117	150	120	133
16	150	135	142	265	160	199	235	115	156	155	120	130
17	135	125	129	240	150	172	170	110	132	155	130	143
18	135	120	127	170	160	162	150	70	100	225	150	165
19	150	125	134	185	160	168	125	95	105	245	120	170
20	150	135	140	220	165	186	110	90	100	250	150	174
21	150	140	149	220	130	171	105	95	101	235	150	188
22	165	150	152	150	130	137	105	95	100	215	155	177
23	175	160	167	165	130	149	110	95	101	210	155	175
24	220	165	182	220	100	158	115	100	107	215	140	166
25	255	165	216	100	50	74	150	100	114	175	125	149
26	305	120	236	70	50	64	115	100	104	175	130	149
27	355	195	263	80	65	72	110	100	105	160	130	148
28	210	165	193	105	70	89	105	100	100	175	100	127
29	---	---	---	110	100	104	110	105	105	575	95	129
30	---	---	---	165	105	137	120	105	110	650	105	231
31	---	---	---	150	90	114	---	---	---	500	115	155
AVG.	355	100	160	390	50	158	235	70	107	650	95	150

MISSISSIPPI RIVER DELTA

07386935 VERMILION RIVER AT STATE HIGHWAY 3073, NEAR LAFAYETTE, LA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	150	95	115	150	120	130	220	120	145	600	335	435
2	285	105	141	220	150	167	305	165	192	575	445	528
3	150	115	127	345	210	242	335	240	271	615	500	564
4	160	125	139	300	235	262	285	255	267	705	540	610
5	155	125	149	475	225	250	285	210	246	555	120	300
6	190	140	154	395	175	235	215	160	186	155	20	68
7	200	125	157	470	195	286	210	160	178	125	70	99
8	155	120	135	360	230	287	245	190	207	155	75	103
9	215	115	145	270	225	243	325	195	250	115	80	96
10	165	115	135	285	260	268	270	190	226	110	90	100
11	160	125	150	285	245	266	220	190	210	110	80	100
12	155	120	140	350	280	320	220	190	204	140	105	118
13	200	155	175	375	325	346	280	195	240	170	100	117
14	195	120	145	360	300	334	270	235	248	140	80	98
15	280	110	150	340	305	327	470	255	328	150	80	105
16	330	120	185	310	275	292	525	270	360	125	80	106
17	320	115	180	395	260	322	360	210	287	145	40	111
18	150	95	113	390	305	331	375	160	244	125	85	115
19	150	110	120	440	330	383	300	155	222	105	40	98
20	155	115	125	390	335	342	320	165	230	115	90	103
21	160	115	130	365	220	279	350	235	271	125	100	111
22	195	125	160	275	135	203	270	225	246	150	100	115
23	200	150	167	215	155	176	290	235	252	270	105	156
24	155	145	153	445	220	289	360	250	291	280	105	195
25	160	145	150	315	265	293	375	275	308	245	105	173
26	160	125	149	290	265	279	375	255	312	290	125	192
27	155	145	152	340	285	314	360	290	318	280	125	214
28	160	150	155	460	295	374	475	285	355	355	210	279
29	190	150	163	315	215	258	480	295	383	365	105	253
30	190	135	162	270	150	207	595	270	384	340	190	252
31	---	---	---	295	130	180	460	265	356	---	---	---
AVG.	330	95	147	475	120	274	595	120	265	705	20	197

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.9	1.0	1.4	3.7	2.3	3.1	6.8	6.2	6.6	4.8	3.9	4.5
2	1.9	0.8	1.2	4.3	1.8	3.0	6.7	6.1	6.3	5.1	3.9	4.5
3	1.6	0.8	1.1	6.3	4.7	5.6	6.2	5.2	6.0	4.2	3.3	3.7
4	1.1	0.8	1.0	4.7	0.4	2.0	6.1	4.8	5.6	4.2	3.1	3.7
5	1.1	0.4	0.6	2.2	0.3	0.7	6.3	4.1	5.2	5.1	4.2	4.5
6	3.3	1.5	2.6	2.2	0.3	1.1	4.6	3.3	3.8	4.4	3.3	3.9
7	1.5	0.9	1.2	2.9	1.0	1.7	3.9	2.4	3.4	3.9	3.3	3.6
8	1.3	0.7	0.9	3.1	1.7	2.7	3.6	3.1	3.4	4.1	3.4	3.7
9	1.3	0.8	1.0	2.6	1.1	1.8	3.3	2.4	2.7	4.4	3.4	4.0
10	2.4	1.1	1.5	1.9	0.4	1.2	2.5	1.7	2.0	4.3	3.9	4.1
11	3.3	1.6	2.2	2.6	0.4	1.7	2.1	1.8	2.0	3.9	3.4	3.6
12	4.3	1.4	2.5	2.6	0.7	1.5	2.1	1.4	1.8	4.0	3.4	3.8
13	2.2	0.8	1.8	5.3	2.0	2.9	3.6	1.7	2.6	4.6	3.3	4.0
14	2.0	0.6	1.3	7.6	2.3	5.7	3.7	1.7	2.9	4.6	3.8	4.1
15	2.7	0.5	1.2	6.0	5.4	5.7	7.3	1.9	5.2	4.7	3.8	4.3
16	4.7	0.4	1.3	5.8	4.0	4.9	7.6	6.6	7.1	---	---	---
17	1.4	0.3	0.6	4.9	1.3	3.4	6.7	6.3	6.5	---	---	---
18	0.5	0.2	0.3	---	---	---	6.7	6.2	6.4	---	---	---
19	1.2	0.1	0.6	---	---	---	6.3	6.0	6.2	---	---	---
20	2.6	0.3	1.2	---	---	---	6.1	5.7	5.9	---	---	---
21	2.9	2.0	2.4	---	---	---	6.9	5.5	6.2	---	---	---
22	5.1	2.3	3.3	---	---	---	5.8	3.2	4.7	---	---	---
23	4.7	0.5	2.9	---	---	---	5.4	4.6	5.1	---	---	---
24	4.7	0.8	2.0	---	---	---	5.1	3.9	4.8	---	---	---
25	2.3	0.7	1.5	---	---	---	4.7	4.2	4.5	---	---	---
26	3.1	0.3	1.4	---	---	---	4.5	4.2	4.4	7.7	5.4	6.0
27	4.6	2.2	3.3	---	---	---	4.6	3.7	4.4	8.4	7.4	7.9
28	7.3	4.8	6.7	---	---	---	4.8	3.9	4.6	8.3	5.9	6.9
29	6.9	4.4	5.7	---	---	---	4.9	4.5	4.7	13.2	8.4	9.8
30	4.3	1.6	3.2	7.7	6.5	7.0	4.7	4.2	4.6	15.0	8.2	11.0
31	3.8	1.5	2.7	---	---	---	4.5	3.4	4.0	8.9	6.2	8.0
AVG.	7.3	0.1	2.0	---	---	---	7.6	1.4	4.6	---	---	---

07386935 VERMILION RIVER AT STATE HIGHWAY 3073, NEAR LAFAYETTE, LA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.3	5.9	6.6	3.7	3.1	3.4	2.9	2.1	2.5
2	---	---	---	6.7	5.9	6.3	2.8	2.2	2.6	3.3	2.4	2.9
3	7.4	6.2	7.2	8.2	4.6	6.7	2.6	1.7	2.2	6.0	2.0	3.8
4	7.1	5.8	6.4	5.4	3.9	4.6	2.4	1.7	2.1	2.8	1.5	2.1
5	6.6	6.1	6.3	5.9	3.6	4.8	2.4	1.5	1.9	2.6	1.5	2.1
6	6.3	5.8	6.0	4.4	3.1	3.5	4.0	1.5	2.4	2.6	1.5	2.0
7	6.0	4.9	5.6	4.1	3.2	3.5	6.2	4.3	5.7	3.6	1.6	2.6
8	6.8	5.1	5.7	5.3	3.2	4.0	7.3	5.0	6.3	2.9	1.5	2.1
9	10.3	6.5	8.9	4.5	2.9	3.7	5.7	4.7	5.2	---	---	---
10	10.9	9.3	10.2	4.5	3.4	3.9	4.8	4.6	4.7	---	---	---
11	10.6	9.8	10.2	3.4	2.9	3.2	4.8	4.5	4.7	---	---	---
12	10.3	8.7	9.4	3.3	2.4	3.0	4.9	4.6	4.7	---	---	---
13	9.1	8.0	8.5	3.7	2.7	3.1	5.3	4.7	4.9	---	---	---
14	9.0	7.6	8.2	3.0	2.2	2.6	6.2	4.9	5.3	---	---	---
15	8.7	5.3	6.8	2.7	1.7	2.3	6.1	5.0	5.7	---	---	---
16	7.7	6.4	7.2	2.9	1.8	2.3	7.5	2.5	5.3	---	---	---
17	8.1	7.4	7.7	3.0	1.8	2.4	7.1	2.1	5.2	---	---	---
18	8.4	7.4	7.9	---	---	---	5.4	2.8	4.1	---	---	---
19	9.5	7.7	8.2	---	---	---	3.9	3.1	3.5	3.4	2.9	3.2
20	8.5	7.9	8.3	---	---	---	3.4	2.1	2.7	3.3	2.8	3.1
21	8.6	7.8	8.2	---	---	---	---	---	---	3.2	2.3	2.8
22	8.6	7.4	8.0	---	---	---	---	---	---	2.8	1.9	2.5
23	8.4	7.3	7.8	---	---	---	---	---	---	2.8	1.6	2.3
24	8.1	7.4	7.7	9.2	7.1	8.6	---	---	---	3.3	1.9	2.9
25	8.2	7.4	7.8	8.5	6.2	7.4	---	---	---	3.2	2.5	3.0
26	7.9	6.7	7.4	6.4	5.2	5.7	---	---	---	3.8	2.7	3.2
27	8.1	6.5	7.2	5.9	4.9	5.4	---	---	---	3.5	3.0	3.2
28	7.3	6.0	6.8	4.9	4.4	4.7	2.5	2.2	2.2	4.3	3.2	3.8
29	---	---	---	4.4	3.6	4.1	2.4	2.0	2.2	3.9	2.3	3.0
30	---	---	---	3.9	2.6	3.6	2.4	1.8	2.2	3.5	1.9	3.0
31	---	---	---	4.8	3.0	3.8	---	---	---	6.5	2.8	4.6
AVG.	10.9	4.9	7.7	9.2	1.7	4.4	---	---	---	---	---	---
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.3	1.5	3.2	2.0	1.2	1.6	---	---	---	5.1	1.3	2.3
2	3.3	0.5	2.4	1.9	0.4	1.4	---	---	---	3.2	1.5	2.1
3	3.1	1.8	2.6	1.9	0.9	1.5	6.9	0.0	2.6	2.5	1.2	1.9
4	3.2	2.2	2.9	2.1	1.0	1.6	2.1	0.0	1.3	4.5	1.5	3.2
5	3.4	2.5	2.9	2.0	0.6	1.3	3.2	0.9	1.7	7.0	4.3	5.9
6	3.6	2.4	3.1	2.7	0.0	1.5	2.6	0.6	1.5	6.2	4.9	5.7
7	3.3	1.7	2.6	1.4	0.2	0.9	2.6	0.0	1.2	5.2	1.9	3.6
8	2.7	1.5	2.2	1.6	0.6	1.0	2.0	0.0	1.0	3.8	1.7	2.9
9	4.7	1.9	3.3	1.7	0.0	1.1	1.5	0.0	0.9	3.1	1.4	2.5
10	3.3	0.6	2.5	1.3	0.0	0.9	1.9	0.0	0.4	2.5	1.3	2.1
11	3.4	2.8	3.1	2.0	0.0	0.7	1.6	0.0	0.6	2.2	0.8	1.6
12	3.4	2.2	3.0	2.5	1.9	2.1	0.0	0.0	0.0	3.1	1.2	1.9
13	3.6	2.6	3.1	3.9	2.0	2.4	1.7	0.0	0.5	3.1	1.3	2.2
14	3.6	1.6	3.1	3.3	0.9	2.1	3.3	0.0	1.0	2.8	0.9	2.2
15	4.0	2.2	3.4	2.7	0.0	1.4	2.4	0.0	0.8	2.1	0.3	1.4
16	4.3	2.8	3.7	2.3	1.1	1.8	1.8	0.0	0.6	1.9	0.5	1.3
17	4.0	1.0	2.4	2.5	1.4	1.9	0.6	0.0	0.2	1.4	0.3	1.0
18	3.4	1.1	2.9	---	---	---	1.6	0.0	0.5	1.9	0.1	1.2
19	3.4	3.0	3.2	---	---	---	1.2	0.0	0.6	1.9	0.4	1.6
20	---	---	---	---	---	---	1.5	0.0	0.7	1.9	0.5	1.5
21	---	---	---	5.4	0.0	2.8	1.1	0.0	0.4	1.9	1.5	1.6
22	2.7	2.3	2.4	2.1	0.0	0.6	1.1	0.0	0.3	1.8	1.5	1.6
23	3.1	2.2	2.7	1.9	0.0	1.0	0.8	0.0	0.2	1.8	1.5	1.6
24	3.4	0.9	2.2	3.3	1.1	2.1	2.2	0.5	0.7	1.8	1.5	1.6
25	3.4	2.7	3.1	3.4	1.2	2.2	2.5	0.9	1.7	1.8	1.5	1.6
26	3.5	2.6	3.1	3.4	0.6	2.0	2.7	0.1	1.3	1.9	1.5	1.6
27	3.5	2.9	3.2	4.3	0.0	1.8	2.5	0.9	1.7	1.9	1.4	1.6
28	3.7	3.0	3.4	4.7	1.5	2.9	2.6	1.0	1.8	3.7	1.7	2.5
29	3.6	1.8	2.5	4.7	2.0	3.6	3.0	0.2	1.6	3.8	1.6	2.7
30	2.5	1.6	2.0	---	---	---	4.6	0.0	1.8	3.2	1.9	2.5
31	---	---	---	---	---	---	4.7	0.2	2.0	---	---	---
AVG.	5.3	0.5	2.9	5.4	0.0	1.7	6.9	0.0	1.0	7.0	0.1	2.2

07386935 VERMILION RIVER AT STATE HIGHWAY 3073, NEAR LAFAYETTE, LA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	24.5	23.5	24.0	20.5	19.0	20.0	11.0	9.5	10.5	13.0	11.0	12.0
2	23.5	23.0	23.0	21.5	21.0	21.0	11.5	9.0	10.5	11.5	10.0	11.0
3	25.0	23.0	23.5	21.0	20.0	21.0	12.0	10.5	11.0	12.5	10.0	11.5
4	24.5	23.0	24.0	21.0	20.0	20.5	13.0	10.0	12.0	13.0	11.5	12.0
5	26.5	25.0	26.0	20.5	20.0	20.0	16.0	12.0	14.0	12.5	11.0	12.0
6	27.0	25.5	26.0	20.5	19.5	20.0	18.0	15.5	17.0	12.5	11.5	12.5
7	26.0	25.5	26.0	21.5	19.5	21.0	17.0	14.5	15.5	12.0	10.5	11.5
8	25.5	25.0	25.0	21.0	20.0	20.5	14.0	13.5	14.0	11.0	9.0	9.5
9	25.5	24.0	25.0	20.0	19.0	19.5	15.5	13.5	14.5	9.0	6.5	8.0
10	26.0	24.5	25.0	20.5	19.0	20.0	16.5	15.5	16.0	7.0	5.5	6.0
11	26.0	25.0	25.0	20.0	17.5	19.0	15.5	14.0	15.0	6.0	4.0	5.0
12	26.5	24.5	25.5	19.0	17.5	18.0	16.0	14.0	15.0	5.5	3.5	4.5
13	26.5	25.0	25.5	20.0	17.0	18.5	16.0	14.0	15.5	5.5	4.0	4.5
14	26.5	25.0	26.0	19.5	18.0	18.5	14.0	12.5	13.5	6.0	4.0	5.0
15	27.0	25.5	26.0	18.0	16.0	17.0	12.5	10.0	11.5	7.0	4.5	6.0
16	27.0	25.5	26.0	15.5	14.5	15.0	10.0	8.5	10.0	8.0	6.0	7.0
17	27.0	25.0	26.0	14.5	14.0	14.5	9.0	7.5	8.0	9.5	6.5	8.0
18	27.0	25.0	26.0	14.5	13.0	14.0	9.0	7.0	8.0	10.0	8.0	9.0
19	26.0	25.0	25.5	14.0	12.5	13.5	9.5	7.5	8.5	12.0	10.5	11.5
20	25.0	23.0	23.5	12.0	11.0	11.5	12.5	8.0	10.0	13.5	11.0	12.0
21	23.0	23.0	23.0	11.0	10.0	11.0	15.5	11.0	14.5	14.5	13.5	14.0
22	23.0	22.5	23.0	10.0	9.5	10.0	14.5	13.0	13.5	15.5	13.0	14.5
23	24.0	22.5	23.5	9.5	9.0	9.5	13.0	10.5	12.0	15.5	14.5	15.5
24	23.0	22.0	23.0	9.5	9.0	9.0	11.5	10.0	11.0	15.0	14.0	14.5
25	22.0	20.5	21.0	11.5	9.5	10.5	11.0	10.5	11.0	14.5	13.0	14.0
26	20.5	17.0	19.0	10.5	9.5	10.0	11.5	10.0	10.5	14.0	13.0	13.5
27	18.0	17.5	18.0	11.5	10.0	10.5	10.5	10.0	10.5	13.5	12.0	13.0
28	18.5	16.5	17.5	12.5	11.0	12.0	10.5	10.0	10.5	13.0	11.0	12.0
29	17.5	16.0	16.5	12.0	11.5	11.5	11.5	10.0	10.5	11.5	10.0	11.0
30	19.0	17.0	18.0	12.0	10.5	11.0	13.0	11.0	12.0	10.0	9.5	10.0
31	20.0	18.5	19.0	---	---	---	13.0	13.0	13.0	11.5	9.5	10.5
AVG.	27.0	16.0	23.5	21.5	9.0	15.5	18.0	7.0	12.0	15.5	3.5	10.5
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.0	10.5	14.0	15.5	14.5	15.0	20.0	18.5	19.5	21.5	21.0	21.0
2	15.5	13.0	14.0	16.0	14.0	15.0	20.0	18.5	19.5	21.5	21.0	21.5
3	14.5	12.5	13.5	17.5	15.0	16.0	20.5	18.5	20.0	23.0	21.5	22.0
4	13.0	11.5	12.5	18.5	16.0	17.0	20.0	19.0	19.5	24.0	21.5	22.0
5	13.5	11.5	12.5	18.0	16.5	17.5	19.0	18.0	18.5	23.5	19.5	21.5
6	13.5	12.5	13.0	19.0	17.5	18.5	18.5	16.5	17.5	23.5	19.0	21.5
7	14.5	13.0	14.0	20.0	17.5	19.0	16.5	16.0	16.0	22.5	18.5	20.5
8	14.5	12.0	14.0	20.0	18.5	19.0	17.5	16.0	16.5	22.0	19.5	21.0
9	11.5	6.5	8.5	20.0	19.0	19.0	17.0	16.0	16.5	25.0	20.0	22.5
10	6.5	4.0	5.0	20.0	18.5	19.5	16.5	15.5	16.0	24.5	21.5	23.0
11	5.5	3.5	4.5	21.5	19.0	20.5	16.0	14.5	15.5	26.5	21.0	23.5
12	6.5	5.5	6.0	21.5	20.5	21.0	16.5	15.5	16.0	26.0	21.0	24.0
13	9.0	7.0	8.0	21.5	21.0	21.5	18.0	16.0	17.0	25.0	21.0	23.0
14	10.5	9.0	10.0	22.0	21.5	22.0	19.0	17.0	18.0	24.5	21.0	23.0
15	12.0	10.0	11.0	23.0	21.5	22.5	19.0	17.5	18.5	25.0	20.5	22.5
16	12.0	9.5	11.5	23.0	21.5	22.0	20.5	17.5	19.0	24.5	19.5	22.5
17	11.5	10.0	10.5	21.5	19.0	20.5	20.5	18.5	19.5	24.5	21.0	23.0
18	10.5	9.5	10.0	20.0	18.0	19.0	21.0	19.0	19.5	26.0	22.0	23.5
19	11.0	10.0	10.5	20.0	18.0	19.0	22.0	20.5	21.5	27.0	23.0	25.5
20	12.0	10.5	11.0	20.0	18.0	19.5	22.5	22.0	22.0	27.0	24.0	25.5
21	12.0	11.0	11.5	19.5	18.5	19.0	23.0	22.0	22.5	28.0	25.0	27.0
22	11.5	11.0	11.5	19.0	17.5	18.0	23.5	22.5	23.0	29.0	25.0	28.0
23	11.5	11.0	11.5	19.0	16.5	18.0	24.0	22.5	23.5	29.5	27.5	28.5
24	12.0	11.0	11.5	19.5	16.5	18.5	24.0	23.0	23.5	29.0	25.5	27.5
25	13.5	11.5	12.5	19.5	17.5	18.5	25.0	23.5	24.0	28.5	24.5	27.0
26	14.5	12.0	13.5	20.0	18.5	19.0	25.0	24.0	24.5	29.0	25.0	27.5
27	15.5	13.0	14.0	18.5	17.5	18.0	24.0	23.0	23.5	28.5	25.5	27.0
28	15.5	13.5	14.5	17.5	16.5	17.0	23.0	21.5	22.5	28.5	25.0	27.0
29	---	---	---	18.0	17.0	17.5	21.5	20.5	21.0	28.5	25.0	27.5
30	---	---	---	18.0	16.5	17.0	21.5	20.5	21.0	29.0	27.0	28.0
31	---	---	---	20.0	17.5	19.0	---	---	---	28.0	25.0	26.5
AVG.	17.0	3.5	11.0	23.0	14.0	19.0	25.0	14.5	20.0	29.5	18.5	24.5

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973--Continued

[illegible]

MISSISSIPPI RIVER DELTA

07386980 VERMILION RIVER AT PERRY, La.

LOCATION.--Lat 29°57'04", long 92°09'22", Vermilion Parish, at bridge on State Highway 82 at Perry, and 2.0 miles south of Abbeville.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Chemical analyses: November 1965 to September 1973.

EXTREMES.--1972-73:

Specific conductance: Maximum daily, 540 micromhos Oct. 2; minimum daily, 50 micromhos Mar. 25.

Period of record:

Specific conductance (1966-73): Maximum daily, 6,200 micromhos July 11, 1972; minimum daily, 35 micromhos Dec. 7, 1971.

REMARKS.--Conductance recorder with probe 2 ft from stream bottom; daily mean values are reported in the daily conductance table.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)
OCT. 26...	15	25	4.7	43	7.6	101	15	60	.3	.50
DEC. 28...	--	--	--	--	--	--	--	--	--	--
JAN. 26...	6.8	10	2.9	15	4.5	47	9.6	19	.1	.50
MAY 10...	3.1	65	2.1	8.7	3.3	32	5.6	13	.1	.50
JUNE 24...	--	--	--	--	--	--	--	--	--	--
JULY 27...	11	18	5.4	31	3.4	101	7.2	34	.2	.30
DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITU- ENTS) (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (MG/L)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)
OCT. 26...	224	223	82	0	398	21.0	20	20	7.6	--
DEC. 28...	--	--	--	--	140	11.5	--	32	--	--
JAN. 26...	114	93	37	0	164	13.0	30	220	6.5	5.5
MAY 10...	95	60	25	0	109	24.0	30	280	6.5	--
JUNE 29...	--	--	--	--	192	30.0	--	130	--	--
JULY 27...	173	162	67	0	275	30.0	30	19	7.0	--

MISSISSIPPI RIVER DELTA

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07386980 VERMILION RIVER AT PERRY, LA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	520	250	185	135	160	180	100	125	80	200	295	290
2	540	210	190	155	105	195	100	135	100	205	265	280
3	490	220	200	170	130	240	110	145	145	210	260	270
4	490	225	210	170	120	140	110	240	140	215	240	230
5	440	225	180	175	155	130	110	150	145	215	215	100
6	415	230	90	180	140	160	110	120	150	190	255	55
7	410	245	90	170	150	125	95	125	145	220	285	60
8	390	360	110	160	165	150	100	95	160	225	285	90
9	395	300	115	160	140	120	120	115	130	200	295	110
10	400	320	125	195	110	130	115	110	145	195	285	115
11	420	280	145	230	125	110	105	110	130	220	290	125
12	410	300	170	160	130	120	115	125	140	225	285	135
13	395	290	185	170	140	130	120	115	140	230	230	120
14	375	195	190	160	130	140	125	140	150	240	225	130
15	345	180	180	165	140	140	125	140	155	250	235	125
16	335	165	155	260	140	155	125	145	175	260	250	130
17	330	140	150	270	140	155	75	140	175	270	200	135
18	330	135	160	240	140	185	60	140	195	280	245	140
19	315	120	170	205	140	190	60	155	180	285	245	140
20	315	140	175	195	135	195	75	160	195	290	245	140
21	390	135	155	190	135	200	85	170	135	295	245	140
22	570	130	100	175	135	205	90	150	160	295	260	145
23	310	130	130	185	140	190	95	175	175	295	240	145
24	270	135	140	200	145	110	100	160	175	295	245	155
25	350	150	140	215	150	50	105	160	165	300	250	170
26	410	155	140	170	155	55	110	170	170	295	255	160
27	240	165	145	140	165	70	110	170	175	285	250	175
28	190	170	150	170	170	85	115	190	185	285	260	170
29	195	165	160	180	---	90	120	175	195	290	250	115
30	210	175	160	175	---	95	120	175	200	295	265	125
31	230	---	140	160	---	95	---	170	---	290	285	---
AVERAGE	368	209	153	183	140	140	104	148	157	253	253	147

CALCASIEU RIVER BASIN

08017090 CALCASIEU RIVER AT BURTON LANDING NEAR LAKE CHARLES, LA.

LOCATION.--Lat 30°06'09", long 93°19'39", NE¼SW¼ sec.18, T.11 S., R.9 W., Calcasieu Parish, mid-channel of river at Burton Landing, 3.3 miles east of State Highway 77, and 9.0 miles south of Sulphur.

DRAINAGE AREA.--3,235 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1973 (partial-record station).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)
OCT. 18...	3.2	200	580	5100	--	106	2000	8400	.8	--
NOV. 15...	3.6	220	380	--	--	83	520	6200	--	--
DEC. 05...	4.1	120	230	2000	65	86	510	3500	.4	--
JAN. 18...	6.3	59	140	1100	55	58	72	2000	.2	--
FEB. 08...	7.0	28	49	410	22	40	110	750	.2	.10
MAR. 19...	11	26	17	190	9.5	29	52	340	.1	.11
APR. 19...	5.2	4.2	7.1	53	3.2	17	14	100	.1	.18
MAY 16...	5.0	11	1.8	28	2.1	21	8.0	53	.1	.10

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTIT- UENTS) (MG/L)	SUS- PENDED SOLIDS (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (MG/L)
OCT. 18...	16800	16300	32	2900	2800	24400	28.0	20	--
NOV. 15...	11650	--	1000	2100	2070	18600	18.0	30	--
DEC. 05...	7380	6500	120	1300	1190	11600	18.0	30	--
JAN. 18...	4040	3460	34	720	670	6650	13.0	--	--
FEB. 08...	1540	1400	34	270	240	2650	13.5	90	--
MAR. 19...	724	660	73	140	11	1270	20.5	180	--
APR. 19...	234	208	140	52	38	416	19.0	--	--
MAY 16...	185	120	--	35	18	244	24.5	40	55

DATE	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	PHOS- PHATE (PO ₄) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)
OCT. 18...	7.2	4.4	3.7	--	--	.054	860	44	60
NOV. 15...	7.6	5.0	4.3	--	.06	--	1400	210	320
DEC. 05...	7.5	7.9	6.2	--	--	--	6000	3000	5400
JAN. 18...	7.3	8.6	4.4	--	.11	--	3000	1500	1900
FEB. 08...	6.4	8.3	3.3	120	.11	--	800	170	200
MAR. 19...	6.4	4.5	4.4	85	.14	--	400	44	120
APR. 19...	6.5	6.8	2.4	35	--	--	--	--	--
MAY 16...	6.4	5.6	5.2	--	--	--	700	180	240

08028000 BAYOU ANACOCO NEAR ROSEFINE, LA.

LOCATION.--Lat 30°57'10", long 93°21'10", on line between secs.25 and 26, T.1 S., R.10 W., Vernon Parish, at gaging station at bridge on parish road from Rosepine to Evans, just downstream from Pocosin Creek, and 4.8 miles northwest of Rosepine.

DRAINAGE AREA.--365 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1952-53, 1960, 1966-70, 1973 (partial-record station), October 1970 to September 1972.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)
OCT. 17...	12	21	10	1.0	13	2.8	42	3.8	11	.1	.56
DEC. 28...	340	3.9	3.5	.5	4.0	1.2	12	2.2	5.8	.0	.20
JAN. 18...	483	3.9	5.3	.2	3.6	1.0	17	1.8	6.4	.0	.10
FEB. 08...	525	3.9	4.8	.3	3.6	1.0	15	4.6	4.5	.1	.10
MAR. 23...	900	9.0	3.7	.7	2.0	1.3	16	3.6	2.5	.1	.20
APR. 18...	12,500	.2	3.4	.1	2.1	1.0	11	1.2	1.7	.1	.20
MAY 16...	450	7.3	3.1	1.0	2.2	1.1	15	2.8	2.8	.0	.20
JUNE 07...	146	13	4.6	1.1	6.0	1.6	18	5.6	7.8	.0	.40

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED (SUM OF CONSTITUENTS) (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM COBALT UNITS)	TUR- BID- ITY (MG/L)	PH (UNITS)
OCT. 17...	97	86	29	0	119	26.0	40	--	6.5
DEC. 28...	48	28	11	1	47	8.5	10	24	6.0
JAN. 18...	55	31	14	0	53	12.0	20	16	6.4
FEB. 08...	50	30	13	1	48	12.0	10	45	5.9
MAR. 23...	51	31	12	0	43	15.0	60	35	6.2
APR. 18...	44	16	9	0	30	18.5	50	30	5.8
MAY 16...	--	29	12	0	40	23.0	60	14	6.2
JUNE 07...	74	51	16	1	62	22.0	51	20	6.4

DATE	DIS- SOLVED OXYGEN DEMAND (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	PHOS- PHATE (PO ₄) (MG/L)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)
OCT. 17...	6.8	.0	62	--	--	--
DEC. 28...	12.7	--	--	--	--	--
JAN. 18...	11.0	3.1	--	.12	--	9000
FEB. 08...	9.2	1.9	--	--	40	210
MAR. 23...	8.3	1.7	--	--	42	210
APR. 18...	8.1	2.4	--	--	--	5000
MAY 16...	7.9	1.9	--	--	50	300
JUNE 07...	6.4	1.8	--	--	680	530

SABINE RIVER BASIN

08028500 SABINE RIVER NEAR BON WIER, TEX.

LOCATION.--Lat 30°44'49", long 93°36'30", Beauregard Parish, La.-Newton County, Tex. State line, at gaging station at bridge on U.S. Highway 190, 0.7 mile upstream from Quicksand Creek, 0.8 mile upstream from Gulf, Colorado and Santa Fe Railway Co. bridge, 2.0 miles east of Bon Wier, and 2.4 miles upstream from Caney Creek.

DRAINAGE AREA.--8,229 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1973 (partial-record station).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SJM OF CONSTITUENTS) (MG/L)
OCT. 17...	6.0	12	3.6	36	4.2	57	25	37	.2	.20	155	153
NOV. 03...	14	7.3	1.4	9.0	2.6	24	5.8	14	.1	.10	91	67
DEC. 05...	13	8.9	4.1	25	2.5	40	20	24	.2	.06	143	118
JAN. 18...	5.3	10	3.9	22	3.6	46	10	31	.1	.02	120	109
FEB. 08...	7.3	10	3.2	19	4.0	44	11	26	.3	.10	122	103
APR. 18...	5.8	7.0	1.8	11	2.6	23	8.0	16	.1	.14	76	64
MAY. 16...	6.8	8.5	2.1	17	3.3	26	15	25	.2	.07	104	91

DATE	SUS- PENDE D SOLIDS (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCTI- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	PHOS- PHATE (PO ₄) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
OCT. 17...	--	45	0	265	27.0	40	6.6	6.6	.4	51	--	.010
NOV. 15...	63	24	4	90	14.0	120	6.9	8.7	3.1	57	.04	--
DEC. 05...	0	39	6	190	16.0	30	7.2	9.6	2.4	--	--	--
JAN. 18...	39	41	3	198	11.5	--	6.7	11.0	1.6	38	.02	--
FEB. 08...	2	38	2	187	11.0	40	7.1	9.9	1.7	23	.62	--
APR. 18...	151	25	6	115	17.0	--	6.5	8.3	2.4	10	--	--
MAY 16...	--	30	9	159	22.5	40	6.9	7.6	1.2	--	--	--

ANALYSES OF SAMPLES COLLECTED AT PERIODIC AND MISCELLANEOUS SITES

02492000 BOGUE CHITTO NEAR BUSH, LA. (LAT 30°37'45" LONG 89°53'50")

DATE	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON-CAR- BONATE HARD- NESS (MG/L)	SPE-CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- IDITY (MG/L)	PH	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)
NOV. 15...	--	34	8	0	40	15.0	30	--	6.8	9.1	--
JAN. 17...	46	29	9	0	46	12.0	5	8	6.3	9.8	1.1
MAY 24...	58	31	8	0	45	25.0	25	20	6.2	7.3	.7
AUG. 15...	23	34	8	1	41	27.0	5	29	7.0	7.2	.5

DATE	PHOS- PHATE (PO4) (MG/L)	DIS- SOL- VED- PHOS- PHATE (P) (MG/L)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
NOV. 15...	--	--	750	1200	--	--	--	--	--	--
JAN. 17...	.05	--	20	40	0	0	1	<.5	0	0
MAY 24...	--	--	50	150	--	--	--	--	--	--
AUG. 15...	--	.012	170	12	0	0	<10	--	5	0

	ALDRIN	LINDANE	CHLOR- DANE	DDD	DDE	DDT	DI- ELDRIN	ENDRIN
DATE	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
JAN. 17...	.00	.00	.0	.00	.00	.00	.01	.00

[illegible]

ANALYSES OF SAMPLES COLLECTED AT PERIODIC STATIONS

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CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

RED RIVER BASIN

07349500 BODCAU BAYOU NEAR SAREPTA, LA. (LAT 32°54'18" LONG 92°28'58")

DATE	INSTANTANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
NOV. 28...	356	--	--	--	--	--	--	126	--	--	--
FEB. 20...	1340	4.0	90	7.3	2.1	36	3.2	27	16	42	.2
MAY 09...	1380	2.8	--	7.2	1.9	25	2.9	32	10	30	.1
AUG. 08...	5.3	4.5	210	8.0	2.7	14	2.3	27	5.6	26	.1

DATE	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUTENTS) (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (MG/L)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)
NOV. 28...	--	--	--	64	0	810	8.0	500	4	7.4	7.8
FEB. 20...	.40	165	126	27	5	217	9.0	20	20	6.3	6.0
MAY 09...	.50	149	98	26	0	175	21.0	30	10	6.4	4.7
AUG. 08...	.20	--	77	31	9	140	28.5	30	18	7.1	6.9

DATE	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
NOV. 28...	--	--	--	44	60	--	--	--	--	--	--
FEB. 20...	4.6	--	.34	60	20	5	0	<10	<.5	<5	0
MAY 09...	2.0	--	--	150	10000	--	--	--	--	--	--
AUG. 08...	2.4	.081	--	180	260	0	0	<10	<.5	0	20

DATE	ALDRIN (UG/L)	LINDANE (UG/L)	CHLOR- DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA- CHLOR (UG/L)
AUG. 08...	.00	.00	.0	.00	.00	.00	.00	.00	.00

DATE	HEPTA- CHLOR EPOXIDE (UG/L)	PCB (UG/L)	MALA- THION (UG/L)	PARA- THION (UG/L)	METHYL PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
AUG. 08...	.00	.0	.00	.00	.00	.00	.00	.00

ANALYSES OF SAMPLES COLLECTED AT PERIODIC STATIONS
CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

RED RIVER BASIN--Continued

07364200 BAYOU BARTHOLOMEW NEAR JONES, LA. (LAT 32°59'25" LONG 91°39'20")

DATE	INSTANTANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HC03) (MG/L)	DIS- SOLVED SULFATE (S04) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
NOV. 28...	121	7.5	--	3.9	1.8	4.0	4.6	20	10	2.0	.0
FEB. 14...	4720	1.9	190	4.0	1.2	2.0	3.7	16	5.4	2.1	.0
MAY 08...	6140	4.1	--	4.2	1.6	1.5	3.8	20	3.2	1.0	.1
AUG. 08...	371	15	80	19	5.5	14	3.8	89	10	16	.1

DATE	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITU- ENTS) (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (MG/L)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)
NOV. 28...	.20	61	44	17	4	61	8.0	60	37	6.8	9.0
FEB. 14...	.40	74	30	15	2	51	9.0	50	60	6.1	8.7
MAY 08...	.20	48	30	17	0	47	21.5	50	63	6.0	5.5
AUG. 08...	.30	155	129	70	0	205	26.5	25	29	7.7	6.2

DATE	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	HEXA- VALENT CHRO- MIUM (CP6) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
NOV. 28...	--	--	240	130	--	--	--	--	--	--
FEB. 14...	3.8	.13	130	75	5	0	<10	<.5	0	0
MAY 08...	1.2	--	3100	70000	--	--	--	--	--	--
AUG. 08...	2.1	.18	880	130	0	0	<10	<.5	0	0

DATE	ALDRIN (UG/L)	LINDANE (UG/L)	CHLOR- DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA- CHLOR (UG/L)
AUG. 08...	.00	.00	.0	.03	.01	.02	.00	.00	.00

DATE	HEPTA- CHLOR EPOXIDE (UG/L)	PCB (UG/L)	MALA- THION (UG/L)	PARA- THION (UG/L)	METHYL PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
AUG. 08...	.00	.0	.00	.00	.03	.00	.10	.00

ANALYSES OF SAMPLES COLLECTED AT PERIODIC STATIONS
 CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

RED RIVER BASIN--Continued

07364700 BAYOU DE LOUITRE NEAR LARAN, LA. (LAT 32°57'19" LONG 92°29'59")

DATE	INSTANTANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
NOV. 28...	253	12	170	18	3.9	78	3.1	11	13	150	.1
FEB. 20...	157	3.6	190	30	6.3	140	4.0	22	12	260	.2
MAY 09...	332	4.6	--	19	4.5	75	3.2	22	4.0	150	.2
AUG. 08...	24	3.4	0	210	35	620	18	28	41	1400	.2

DATE	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (MG/L)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)
NOV. 28...	.10	--	283	61	52	548	8.0	40	8	6.4	9.4
FEB. 20...	.20	581	468	100	83	888	8.0	30	5	6.3	10.0
MAY 09...	.20	384	272	66	48	544	20.5	50	14	6.1	7.0
AUG. 08...	.10	2710	2350	680	650	4490	28.5	20	19	7.1	6.8

DATE	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FFCAL COLI- FORM (COL. PER 100 ML)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
NOV. 28...	--	--	80	90	--	--	--	--	--	--
FEB. 20...	2.0	.029	110	20	2	2	<10	<.5	0	10
MAY 09...	2.8	--	260	8000	--	--	--	--	--	--
AUG. 08...	1.5	.045	580	220	0	0	<10	<.5	<5	50

DATE	ALDRIN (UG/L)	LINDANE (UG/L)	CHLOR- DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA- CHLOR (UG/L)
AUG. 08...	.00	.00	.0	.00	.00	.01	.00	.00	.00

DATE	HEPTA- CHLOR EPOXIDE (UG/L)	PCB (UG/L)	MALA- THION (UG/L)	PARA- THION (UG/L)	METHYL PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
AUG. 08...	.00	.0	.00	.00	.00	.00	.00	.00

ANALYSES OF SAMPLES COLLECTED AT PERIODIC STATIONS
CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

RED RIVER BASIN--Continued

07366000 CORNEY BAYOU NEAR LILLIE, LA. (LAT 32°53'15" LONG 92°39'25")

DATE	MEAN DAILY DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED SULFATE (S04) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)
NOV. 28...	395	7.1	--	7.8	3.8	18	3.3	6	7.0	44	.0	.20
FEB. 20...	213	5.2	190	9.8	2.3	23	2.1	9	7.2	51	1.0	.10
MAY 09...	495	3.4	--	8.0	2.9	19	2.4	11	3.2	44	.1	.20
AUG. 08...	15	11	150	20	5.9	50	3.7	12	6.2	120	.0	.10

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TJENTS) (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (MG/L)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)
NOV. 28...	94	95	35	30	175	7.5	50	18	6.6	10.0
FEB. 20...	161	106	34	27	199	9.0	20	15	--	10.0
MAY 09...	112	89	32	23	164	22.0	10	18	--	6.8
AUG. 08...	281	221	74	64	429	29.0	15	26	7.0	6.6

DATE	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FFCAL COLI- FORM (COL. PER 100 ML)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL MERCURY (MG) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
NOV. 28...	--	--	60	170	--	--	--	--	--	--
FEB. 20...	2.5	.035	60	20	2	0	40	<.5	<5	--
MAY 09...	2.1	--	100	6000	--	--	--	--	--	--
AUG. 08...	1.8	.21	150	260	0	1	<10	<.5	9	10

DATE	ALDRIN (UG/L)	LINDANE (UG/L)	CHLOR- DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA- CHLOR (UG/L)
AUG. 08...	.00	.00	.0	.00	.00	.01	.00	.00	.00

DATE	HEPTA- CHLOR EPOXIDE (UG/L)	PCB (UG/L)	MALA- THION (UG/L)	PARA- THION (UG/L)	METHYL PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
AUG. 08...	.00	.0	.00	.00	.00	.00	.10	.00

ANALYSES OF SAMPLES COLLECTED AT PERIODIC STATIONS
CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

RED RIVER BASIN--Continued

07366300 BAYOU D'ARBONNE LAKE AT FARMERVILLE, LA. (LAT 32°45'25" LONG 92°24'50")

DATE	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	HICAR- BONATE (HCO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
NOV. 28...	7.7	250	9.3	1.9	19	3.0	6	4.4	45	.1
FEB. 20...	4.6	130	4.3	1.0	7.3	1.4	12	5.2	13	.1
MAY 09...	2.0	270	4.9	.9	7.2	1.5	13	2.2	13	.1
AUG. 08...	8.0	80	7.2	2.9	16	2.3	28	4.8	30	.1

DATE	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCTI- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (MG/L)	PH (UNITS)
NOV. 28...	.10	--	94	31	26	182	9.0	50	16	6.0
FEB. 20...	.09	--	43	15	5	78	9.0	30	15	6.4
MAY 09...	.20	77	39	16	5	76	23.0	70	13	6.2
AUG. 08...	.10	116	86	30	7	149	29.5	10	15	7.0

DATE	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	PHOS- PHATE (PO ₄) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	HEXA- VALENT CHRO- MIUM (CR ₆) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
NOV. 28...	9.4	--	--	--	--	--	--	--	--	--
FEB. 20...	10.8	2.9	.05	--	0	0	<10	<.5	<5	10
MAY 09...	7.6	2.6	--	--	--	--	--	--	--	--
AUG. 08...	7.3	2.0	--	.051	0	0	<10	<.5	0	0

DATE	ALDRIN (UG/L)	LINDANE (UG/L)	CHLOR- DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA- CHLOR (UG/L)
AUG. 08...	.00	.00	.0	.00	.00	.00	.00	.00	.00

DATE	HEPTA- CHLOR EPOXIDE (UG/L)	PCB (UG/L)	MALA- THION (UG/L)	PARA- THION (UG/L)	METHYL PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
AUG. 08...	.00	.0	.00	.00	.00	.00	.01	.00

ANALYSES OF SAMPLES COLLECTED AT PERIODIC STATIONS
CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

RED RIVER BASIN--Continued

07368000 BOEUF RIVER NEAR GIRARD, LA. (LAT 32°28'52" LONG 91°47'52")

DATE	MEAN DAILY DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
NOV. 24..	368	6.7	340	9.9	3.2	5.0	5.6	40	9.0	7.0	.5
FEB. 19..	177	3.0	60	8.2	2.8	3.5	3.2	40	6.6	3.6	.1
MAY 08..	393	2.8	80	10	3.2	2.5	3.2	46	2.8	3.0	.1
AUG. 07..	53	17	110	35	13	17	3.8	152	18	22	.2

DATE	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (MG/L)	PH
NOV. 24...	.20	97	69	38	5	108	7.5	60	42	7.0
FEB. 19...	.30	71	52	32	0	89	9.0	20	160	6.5
MAY 08...	.40	74	53	38	0	96	22.0	15	100	6.1
AUG. 07...	.20	216	202	140	16	341	29.5	30	28	8.0

DATE	DIS- SOLVED OXYGEN DEMAND (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL MERCURY (MG) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
NOV. 24...	10.4	--	--	--	--	--	--	--	--
FEB. 19...	9.4	2.3	.44	3	0	<10	<.5	<5	0
MAY 08...	5.2	2.1	--	--	--	--	--	--	--
AUG. 07...	6.1	2.6	.11	0	0	<10	<.5	0	0

DATE	ALDRIN (UG/L)	LINDANE (UG/L)	CHLOR- DANE (UG/L)	DDO (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA- CHLOR (UG/L)
AUG. 07...	.00	.00	.0	.03	.01	.02	.00	.00	.00

DATE	HEPTA- CHLOR EPOXIDE (UG/L)	PCB (UG/L)	MALA- THION (UG/L)	PARA- THION (UG/L)	METHYL PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
AUG. 07...	.00	.0	.00	.00	.04	.07	.55	.03

ANALYSES OF SAMPLES COLLECTED AT PERIODIC STATIONS
CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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RED RIVER BASIN--Continued

07369000 BAYOU LAFOURCHE NEAR CREW LAKE, LA. (LAT 32°29'55" LONG 91°55'05")

DATE	MEAN DAILY DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)
NOV. 29...	6,930	5.0	--	14	3.2	32	6.7	71	18	32	.0	.30
FEB. 19...	800	.9	140	7.7	3.3	5.5	4.7	42	7.6	4.0	.2	.20
MAY 08...	3,500	1.7	90	12	4.1	4.4	5.4	61	4.6	2.8	.2	.60
AUG. 07...	313	13	90	37	15	36	5.0	161	20	56	.2	.50

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (MG/L)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)
NOV. 29...	142	150	48	10	270	8.0	200	80	7.1	10.2	--
FEB. 19...	--	56	33	0	95	9.0	50	45	6.7	10.4	2.9
MAY 08...	100	68	47	0	117	22.0	50	260	6.7	6.2	3.5
AUG. 07...	257	264	150	20	390	29.5	30	33	8.1	6.9	.4

DATE	PHOS- PHATE (PO ₄) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CU) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
NOV. 29...	--	--	--	--	--	--	--	--	--	--
FEB. 19...	.40	--	240	90	0	0	<10	<.5	<5	0
MAY 08...	--	--	3500	6500	--	--	--	--	--	--
AUG. 07...	--	.12	80	400	0	0	<10	<.5	5	0

DATE	ALDRIN (UG/L)	LINDANE (UG/L)	CHLOR- DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA- CHLOR (UG/L)
AUG. 07...	.00	.00	.0	.05	.00	.02	.01	.00	.00

DATE	HEPTA- CHLOR EPOXIDE (UG/L)	PCB (UG/L)	MALA- THION (UG/L)	PARA- THION (UG/L)	METHYL PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
AUG. 07...	.00	.0	.00	.00	.04	.00	.73	.18

ANALYSES OF SAMPLES COLLECTED AT PERIODIC STATIONS
CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

RED RIVER BASIN--Continued

07369500 TENSAS RIVER AT TENDAL, LA. (LAT 32°25'55" LONG 91°22'00")

DATE	MEAN DAILY DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED IRON (FF) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HC03) (MG/L)	DIS- SOLVED SULFATE (S04) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
NOV. 29...	327	12	--	20	7.3	9.0	6.2	99	14	3.8	.1
FEB. 19...	497	6.6	40	21	7.2	7.0	4.4	104	8.6	4.8	.2
MAY 08...	1,130	6.4	--	25	7.6	4.0	5.5	125	5.4	3.0	.4
AUG. 07...	39	21	0	53	26	36	4.8	356	11	25	.3

DATE	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (MG/L)	PH (UNITS)
NOV. 29...	.50	--	123	80	1	205	8.0	60	70	7.5
FEB. 19...	.05	121	111	82	0	191	--	15	--	7.6
MAY 08...	.40	139	122	96	0	211	24.5	30	78	7.5
AUG. 07...	.20	392	358	250	0	594	28.5	10	23	8.1

DATE	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
NOV. 29...	9.0	--	--	--	--	--	--	--	--
FEB. 19...	9.3	2.2	.24	0	0	<10	<.5	<5	0
MAY 08...	6.5	2.5	--	--	--	--	--	--	--
AUG. 07...	8.3	4.6	.13	0	0	<10	<.5	<5	0

DATE	ALDRIN (UG/L)	LINDANE (UG/L)	CHLOR- DANE (UG/L)	DDO (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA- CHLOR (UG/L)
AUG. 07...	.00	.00	.0	.02	.00	.01	.00	.00	.00

DATE	HEPTA- CHLOR EPOXIDE (UG/L)	PCB (UG/L)	MALA- THION (UG/L)	PARA- THION (UG/L)	METHYL PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
AUG. 07...	.00	.0	.00	.00	.02	.00	.00	.00

ANALYSES OF SAMPLES COLLECTED AT PERIODIC STATIONS

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CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

RED RIVER BASIN--Continued

07370000 BAYOU MACON NEAR DELHI, LA. (LAT 32°27'25" LONG 91°28'30")

DATE	MEAN DAILY DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
NOV. 29...	2,880	7.6	100	18	6.1	9.0	6.5	74	22	10	.3
FEB. 19...	2,350	3.0	50	14	4.1	5.0	3.5	65	7.2	4.4	.1
MAY 08...	3,930	3.6	70	7.9	4.2	2.3	3.5	51	4.0	2.0	.1
AUG. 07...	609	12	20	39	16	19	4.3	179	21	30	.2

DATE	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCTI- VANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (MG/L)	PH (UNITS)
NOV. 29...	.20	137	117	90	9	184	8.5	50	80	7.2
FEB. 19...	.20	91	74	52	0	128	8.0	15	200	--
MAY 08...	.30	79	56	42	0	102	22.0	30	150	--
AUG. 07...	.30	--	231	160	17	387	29.0	30	18	8.2

DATE	DIS- SOLVED OXYGEN DEMAND (MG/L)	BIO- CHEM- ICAL OXYGEN (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED LEAD (Pb) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
NOV. 29...	10.2	--	--	--	--	--	--	--	--
FEB. 19...	10.5	2.3	.43	0	1	<10	<.5	<5	0
MAY 08...	6.8	2.2	--	--	--	--	--	--	--
AUG. 07...	6.5	1.6	.15	0	0	<10	<.5	0	0

DATE	ALDRIN (UG/L)	LINDANE (UG/L)	CHLOR- DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA- CHLOR (UG/L)
AUG. 07...	.00	.00	.0	.03	.01	.02	.01	.00	.00

DATE	HEPTA- CHLOR EPOXIDE (UG/L)	PCB (UG/L)	MALA- THION (UG/L)	PARA- THION (UG/L)	METHYL PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
AUG. 07...	.00	.0	.00	.00	.03	.31	1.8	.06

ANALYSES OF SAMPLES COLLECTED AT PERIODIC STATIONS
CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

RED RIVER BASIN--Continued

07372000 DUGDEMONA RIVER NEAR WINNFELD, LA. (LAT 31°58'30" LONG 92°39'10")

DATE	MEAN DAILY DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HC03) (MG/L)	DIS- SOLVED SULFATE (S04) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
OCT. 18...	22	12	--	5.9	.8	48	5.2	109	19	6.0	.2
JAN. 30...	2,310	23	160	4.1	.9	9.2	1.1	18	13	4.5	.1
APR. 17...	1,010	26	360	5.5	1.0	9.2	1.5	24	9.6	5.1	.1
AUG. 22...	37	18	430	14	4.4	110	6.8	226	60	46	.2

DATE	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (MG/L)	PH (UNITS)
OCT. 18...	.41	227	153	18	0	261	22.0	240	--	6.8
JAN. 30...	.11	84	65	14	0	79	6.5	60	42	6.0
APR. 17...	.14	94	71	18	0	87	--	70	32	6.0
AUG. 22...	.60	389	371	55	0	603	27.0	160	27	8.3

DATE	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
OCT. 18...	6.6	1.9	56	--	--	--	--	--	--	--
JAN. 30...	10.2	--	--	.000	0	0	<10	<.5	0	40
APR. 17...	--	--	--	--	--	--	--	--	--	--
AUG. 22...	4.7	--	--	.15	0	0	<10	<.5	0	0

DATE	ALDRIN (UG/L)	LINDANE (UG/L)	CHLOR- DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- ELDRIN (UG/L)	ELDRIN (UG/L)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR EPOXIDE (UG/L)
AUG. 22...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00

DATE	PCB (UG/L)	MALA- THION (UG/L)	PARA- THION (UG/L)	METHYL PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	DIAZ- INON (UG/L)
AUG. 22...	.0	.00	.00	.00	.00	.00	.00	.01

07375500 TANGIPAHQA RIVER AT ROBERT, LA. (LAT 30°30'23", LONG 90°21'42")

[illegible]

ANALYSES OF SAMPLES COLLECTED AT PERIODIC STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

MISSISSIPPI RIVER DELTA--Continued

07376000 TICKFAW RIVER AT HOLDEN, LA. (LAT 30°55'47" LONG 90°40'41")

DATE	MEAN DAILY DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)
NOV. 15...	138	15	--	2.0	1.2	3.0	1.2	16	.0	3.8	.3	.02
JAN. 17...	260	6.5	100	1.6	1.0	3.8	1.0	12	3.2	4.7	.0	.09
MAY 24...	177	6.0	300	1.1	1.3	3.5	1.0	12	.4	4.6	.0	.10
AUG. 15...	149	8.3	200	2.3	.5	4.0	1.0	13	9.8	4.6	.0	.10

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TJENTS) (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCTI- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- CORAL UNITS)	TUR- BID- ITY (MG/L)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)
NOV. 15...	52	35	10	0	32	13.0	15	--	7.4	9.9
JAN. 17...	48	28	8	0	37	11.5	5	5	5.8	10.4
MAY 24...	48	24	8	0	35	24.5	20	20	5.9	7.6
AUG. 15...	23	37	8	0	32	26.5	15	32	7.1	7.8

DATE	BIO-CHEMICAL OXYGEN DEMAND (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISTOLVED PHOSPHORUS (P) (MG/L)	STREPTOCOCCI (COLONIES PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	DISTOLVED ARSENIC (AS) (UG/L)	DISTOLVED CADMIUM (CD) (UG/L)	HEXA-VALENT CHROMIUM (CR6) (UG/L)	DISTOLVED LEAD (PB) (UG/L)	DISTOLVED ZINC (ZN) (UG/L)
NOV. 15...	--	--	--	630	200	--	--	--	--	--
JAN. 17...	.8	.046	--	20	72	0	0	<10	0	0
MAY 24...	.8	--	--	80	13	--	--	--	--	--
AUG. 15...	1.4	--	.020	1400	40	0	0	<10	0	0

DATE	ALDRIN (UG/L)	LINDANE (UG/L)	CHLOR- DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)
JAN. 17...	.00	.00	.0	.00	.00	.00	.00	.00

[illegible]

ANALYSES OF SAMPLES COLLECTED AT PERIODIC STATIONS
CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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MISSISSIPPI RIVER DELTA--Continued

07378500 AMITE RIVER NEAR DENHAM SPRINGS, LA. (LAT 30°27'50" LONG 90°59'25")

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)
NOV. 15...	1,800	3.2	90	2.2	.6	4.0	2.1	11	5.0	4.2	.0	.20
DEC. 26...	4,880	4.6	--	2.7	.5	3.2	2.5	10	3.4	4.3	.0	.30
JAN. 17...	1,220	6.4	230	3.3	.7	4.2	1.0	15	2.2	4.5	.0	.07

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 160 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTIT- UENTS) (MG/L)	HARD- NESS (CA, MG) (MG/L)	MOY- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- CORAL) (UNITS)	TUR- BID- ITY (MG/L)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)
NOV. 15...	35	27	8	0	41	14.0	20	22	5.8	9.2
DEC. 26...	54	27	9	1	46	12.0	40	65	5.6	--
JAN. 17...	40	30	11	0	49	13.0	30	27	5.7	9.8

DATE	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	PHOS- PHATE (PO ₄) (MG/L)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
NOV. 15...	--	.10	--	5000	0	1	0	.5	<5	10
DEC. 26...	--	.04	--	--	--	--	--	--	--	--
JAN. 17...	1.0	.09	40	270	0	0	1	<.5	6	0

ANALYSES OF SAMPLES COLLECTED AT PERIODIC STATIONS
CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

MISSISSIPPI RIVER DELTA--Continued

07381590 WAX LAKE OUTLET AT CALUMET, LA. (LAT 29°42'09" LONG 91°22'07")

DATE	DIS-SOLVED SILICA (SI02) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)
DEC. 04...	3.4	40	33	9.1	15	3.0	110	34	18
JAN. 22...	2.4	280	27	7.2	13	2.5	90	24	17
APR. 18...	6.6	20	31	7.4	11	2.7	103	29	18
AUG. 06...	3.3	20	41	12	19	3.6	143	46	19

DATE	TURBIDITY (MG/L)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	HEXA-VALENT CHROMIUM (CR6) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
DEC. 04...	32	6.5	10.0	0	1	<10	<.5	5	30
JAN. 22...	70	6.4	10.3	--	--	--	--	--	--
APR. 18...	100	6.9	7.7	--	--	--	--	--	--
AUG. 06...	35	8.3	6.8	0	1	<10	<.5	5	0

DATE	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)
DEC. 04...	.1	.40	201	171	120	30	318	13.0	5
JAN. 22...	.1	.20	170	139	97	23	264	7.5	25
APR. 18...	.7	.70	172	160	110	24	287	15.5	5
AUG. 06...	.3	1.2	220	220	150	36	398	29.0	10

DATE	ALDRIN (UG/L)	LINDANE (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)
DEC. 04...	.00	.00	.0	.00	.00	.01	.01	.00

DATE	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)	MALATHION (UG/L)	PARATHION (UG/L)	METHYL PARATHION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
DEC. 04...	.00	.00	.00	.00	.00	.02	.01	.02

ANALYSES OF SAMPLES COLLECTED AT PERIODIC STATIONS
CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

MISSISSIPPI RIVER DELTA--Continued

07385500 BAYOU TECHE AT ARNAUDVILLE, LA. (LAT 30°23'50" LONG 91°55'50")

DATE	MEAN DAILY DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HC03) (MG/L)	DIS- SOLVED SULFATE (S04) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
OCT. 04...	300	9.4	8.5	4.6	7.0	3.9	45	6.0	8.8	.2
NOV. 15...	766	11	5.9	3.1	6.0	2.0	32	4.6	6.1	.6
DATE	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (MG/L)	PH (UNITS)
OCT. 04...	.09	80	71	40	3	115	25.0	30	7	6.5
NOV. 15...	.20	51	57	30	3	87	16.0	50	40	6.8

ANALYSES OF SAMPLES COLLECTED AT PERIODIC STATIONS
 CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

CALCASIEU RIVER BASIN

06013000 CALCASIEU RIVER NEAR GLENMORA, LA. (LAT 30°59'45" LONG 92°40'25")

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
DEC. 27...	2,120	3.4	70	2.4	.5	2.9	1.0	9	3.6	3.6	.1
JAN. 30...	2,050	2.5	160	2.7	.3	2.7	.7	8	3.4	2.8	.1
APR. 17...	1,420	1.8	140	2.3	.5	2.3	1.2	10	.4	2.5	.1
AUG. 23...	64	25	230	3.8	1.6	7.0	1.6	23	4.2	7.6	.0

DATE	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (MG/L)	PH (UNITS)
DEC. 27...	.09	55	22	8	0	35	8.5	30	29	6.2
JAN. 30...	.20	52	20	8	1	33	7.0	30	19	6.2
APR. 17...	.20	50	17	8	0	31	--	50	28	6.1
AUG. 23...	.20	66	26	16	0	67	25.0	35	22	7.2

DATE	DIS- SOLVED OXYGEN (MG/L)	PHOS- PHATE (PO ₄) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
DEC. 27...	14.0	--	--	--	--	--	--	--	--
JAN. 30...	9.0	.06	--	4	0	0	<.5	0	50
APR. 17...	--	--	--	--	--	--	--	--	--
AUG. 23...	6.8	--	.068	0	0	<10	<.5	0	0

ANALYSES OF SAMPLES COLLECTED AT PERIODIC STATIONS
CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

CALCASIEU RIVER BASIN--Continued

08015500 CALCASIEU RIVER NEAR KINDER, LA. (LAT 30°30'10" LONG 92°54'55")

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED IRON (FF) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED POT- AS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
DEC. 27...	7,060	2.4	60	2.4	1.5	4.1	1.6	13	3.8	2.2	.1
JAN. 30...	4,934	1.8	190	1.8	.9	3.6	1.0	11	3.2	3.2	.1
APR. 19...	20,250	.5	110	1.8	.1	2.3	.8	11	1.0	.7	.1
AUG. 23...	778	20	290	1.5	1.3	12	1.8	32	4.6	8.2	.0

DATE	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCTI- VANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT) (UNITS)	TUR- BID- ITY (MG/L)	PH (UNITS)
DEC. 27...	.10	50	24	8	0	39	9.0	40	22	6.4
JAN. 30...	.20	56	22	8	0	40	8.0	50	32	6.2
APR. 19...	.10	30	13	5	0	26	--	40	16	6.1
AUG. 23...	.20	54	66	13	0	75	28.0	45	20	7.3

DATE	DIS- SOLVED NITRATE (MG/L)	PHOS- PHATE (PO ₄) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
DEC. 27...	10.2	--	--	--	--	--	--	--	--
JAN. 30...	10.0	.04	--	3	0	0	<.5	0	50
APR. 19...	--	--	--	--	--	--	--	--	--
AUG. 23...	7.0	--	.097	0	0	<10	<.5	0	0

ANALYSES OF SAMPLES COLLECTED AT PERIODIC STATIONS
 CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

SABINE RIVER BASIN

08028200 BAYOU ANACOCO NEAR KNIGHT, LA. (LAT 30°52'14" LONG 93°30'38")

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SIU/L)	DIS- SOLVED CAL- CIUM (CA)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA)	DIS- SOLVED PO- TAS- SIUM (K)	BICAR- BONATE (HCO3)	DIS- SOLVED SULFATE (SO4)	DIS- SOLVED CHLO- RIDE (CL)	DIS- SOLVED FLUO- RIDE (F)	DIS- SOLVED NITRATE (N)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C)
JUN. 07...	343	13	6.2	2.1	50	3.5	44	60	24	.2	.50	238
JUL. 11...	435	11	7.0	.9	45	2.8	43	55	21	.1	.40	174
AUG. 02...	1,300	6.6	3.2	.5	11	1.8	20	14	4.6	1.0	.30	91
SEP. 05...	1,100	9.3	4.4	1.7	17	2.4	21	25	9.2	.9	.30	104
DATE	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	HARD- NESS (CA+MG)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICHO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (MG/L)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)
JUNE 07...	181	24	0	279	23.5	120	24	7.1	5.6	4.7	620	1600
JULY 11...	165	21	0	265	27.5	120	32	7.5	5.3	5.3	140	220
AUG. 02...	58	10	0	78	27.0	120	39	6.5	6.5	4.9	1300	5000
SEP. 05...	81	18	1	114	25.0	80	42	6.4	6.4	--	--	5

CHEMICAL ANALYSES, SEPTEMBER 1972 TO SEPTEMBER 1973

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ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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CHEMICAL ANALYSES, SEPTEMBER 1972 TO SEPTEMBER 1973

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED (SUM OF CONSTITUENTS) (MG/L)	SUS- PENDED SOLIDS (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- CORAL UNITS)
SABINE RIVER BASIN--Continued										
08022500 - SABINE RIVER AT LOGANSPORT, LA. (LAT 31 58 32 LONG 094 00 30)										
MAR., 1973 20...	.2	.05	127	103	--	38	12	160	16.0	60
08023000 - BAYOU CASTOR NR LOGANSPORT, LA. (LAT 31 58 25 LONG 093 58 10)										
SEP., 1972 11...	.2	--	124	116	--	54	0	198	27.0	30
08023103 - BAYOU CASTOR AT MOUTH NR LOGANSPORT, LA. (LAT 31 56 12 LONG 093 58 46)										
SEP., 1972 11...	.2	.27	177	171	--	58	13	314	24.5	20
08023150 - CLEMENT CREEK NR HUNTER, LA. (LAT 31 55 00 LONG 093 53 10)										
SEP., 1972 11...	--	--	--	--	--	--	--	153	23.5	--
08023250 - COW BAYOU NR HUNTER, LA. (LAT 31 52 07 LONG 093 49 15)										
SEP., 1972 11...	--	--	--	--	--	--	--	132	24.0	--
08023400 - BAYOU SAN PATRICIO NR BENSON, LA. (LAT 31 52 30 LONG 093 39 30)										
SEP., 1972 12...	.1	--	72	55	--	23	1	87	23.5	50
08023450 - BAYOU SAN PATRICIO NR CONVERSE, LA. (LAT 31 46 56 LONG 093 41 10)										
SEP., 1972 12...	--	--	--	--	--	--	--	103	25.5	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, SEPTEMBER 1972 TO SEPTEMBER 1973

DATE	TUR- BID- ITY (MG/L)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	RIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	PHOS- PHATE (PO4) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)
SABINE RIVER BASIN--Continued										
08022500 - SABINE RIVER AT LOGANSFORT, LA. (LAT 31 58 32 LONG 094 00 30)										
MAR., 1973 20...	--	6.7	7.0	.6	--	.02	--	1300	44	60
08023000 - BAYOU CASTOR NR LOGANSFORT, LA. (LAT 31 58 25 LONG 093 58 10)										
SEP., 1972 11...	--	7.3	3.6	1.6	--	--	.13	8800	580	1200
08023103 - BAYOU CASTOR AT MOUTH NR LOGANSFORT, LA. (LAT 31 56 12 LONG 093 58 46)										
SEP., 1972 11...	--	6.6	7.7	2.6	--	--	.075	550	<1	20
08023150 - CLEMENT CREEK NR HUNTER, LA. (LAT 31 55 00 LONG 093 53 10)										
SEP., 1972 11...	--	--	.9	--	--	--	--	--	--	--
08023250 - COW BAYOU NR HUNTER, LA. (LAT 31 52 07 LONG 093 49 15)										
SEP., 1972 11...	--	--	2.4	--	--	--	--	--	--	--
08023400 - BAYOU SAN PATRICIO NR BENSON, LA. (LAT 31 52 30 LONG 093 39 30)										
SEP., 1972 12...	--	6.7	3.1	1.4	--	--	.15	680	900	67
08023450 - BAYOU SAN PATRICIO NR CONVERSE, LA. (LAT 31 46 56 LONG 093 41 10)										
SEP., 1972 12...	--	--	2.0	--	--	--	--	--	--	--

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CHEMICAL ANALYSES, SEPTEMBER 1972 TO SEPTEMBER 1973

[illegible]

[illegible]

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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CHEMICAL ANALYSES, SEPTEMBER 1972 TO SEPTEMBER 1973

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	SUS- PENDEO SOLIDS (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)
SABINE RIVER BASIN--Continued										
08023500 - BAYOU SAN PATRICIO NR NOBLE, LA. (LAT 31 43 15 LONG 093 42 25)										
SEP., 1972 12...	--	--	96	72	--	24	0	118	25.0	60
08024000 - BAYOU SAN MIGUEL NEAR ZWOLLE, LA. (LAT 31 39 10 LONG 093 39 10)										
SEP., 1972 12...	--	--	--	--	--	--	--	126	25.0	--
08024009 - BAYOU SAN MIGUEL WEST OF ZWOLLE, LA. (LAT 31 37 47 LONG 093 39 47)										
SEP., 1972 12...	--	--	--	--	--	--	--	122	27.5	--
08024023 - BAYOU SCIE AT STATE HWY 120 NR ZWOLLE, LA. (LAT 31 40 13 LONG 093 35 24)										
SEP., 1972 12...	--	--	--	--	--	--	--	172	25.0	--
08024033 - BAYOU SCIE SOUTH OF ZWOLLE, LA. (LAT 31 37 24 LONG 093 38 58)										
SEP., 1972 12...	2	--	108	94	--	34	0	156	25.5	50
08024050 - HARPOON BAYOU AT MANY, LA. (LAT 31 34 30 LONG 093 29 45)										
SEP., 1972 12...	--	--	--	--	--	--	--	81	27.0	--
OCT. 02...	--	--	--	--	--	--	--	104	--	--
08024063 - PHILLIPS CREEK AT MANY, LA. (LAT 31 35 10 LONG 093 28 25)										
SEP., 1972 12...	--	--	--	--	--	--	--	2120	27.0	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, SEPTEMBER 1972 TO SEPTEMBER 1973

DATE	TUR- BID- ITY (MG/L)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	HIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	PHOS- PHATE (PO ₄) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	IMME- DIATE CULI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)
SABINE RIVER BASIN--Continued										
08023500 - BAYOU SAN PATRICIO NR NORLE, LA. (LAT 31 43 15 LONG 093 42 25)										
SEP., 1972 12...	--	6.8	3.6	1.6	--	--	.13	1200	880	250
08024000 - BAYOU SAN MIGUEL NEAR ZWOLLE, LA. (LAT 31 39 10 LONG 093 39 10)										
SEP., 1972 12...	--	--	1.5	--	--	--	--	--	--	--
08024009 - BAYOU SAN MIGUEL WEST OF ZWOLLE, LA. (LAT 31 37 47 LONG 093 39 47)										
SEP., 1972 12...	--	--	5.2	--	--	--	--	--	--	--
08024023 - BAYOU SCIE AT STATE HWY 120 NR ZWOLLE, LA. (LAT 31 40 13 LONG 093 35 24)										
SEP., 1972 12...	--	--	5.1	--	--	--	--	--	--	--
08024033 - BAYOU SCIE SOUTH OF ZWOLLE, LA. (LAT 31 37 24 LONG 093 38 58)										
SEP., 1972 12...	--	6.7	2.4	1.7	--	--	.21	1300	130	47
08024050 - HARPOON BAYOU AT MANY, LA. (LAT 31 34 30 LONG 093 29 45)										
SEP., 1972 12...	--	--	4.5	--	--	--	--	--	--	--
OCT. 02...	--	--	--	--	--	--	--	--	--	--
08024063 - PHILLIPS CREEK AT MANY, LA. (LAT 31 35 10 LONG 093 28 25)										
SEP., 1972 12...	--	--	2.2	--	--	--	--	--	--	--

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[illegible]

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SI02) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HC03) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)
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08024064 - PHILLIPS CR AT US HWY 171 AT MANY, LA. (LAT 31 34 24 LONG 093 29 32)

U8024066 - HARPOON BAYOU WEST OF MANY, LA. (LAT 31 33 55 LONG 093 30 45)

08024073 - SAN JOSE CR AT STATE HWY 6 AT MANY, LA. (LAT 31 33 40 LONG 093 30 00)

08024077 - BAYOU LA NANA WEST OF MANY, LA. (LAT 31 33 31 LONG 093 31 31)

SEP., 1972	--	15	--	17	11	140	7.0	209	26	120
OCT.										
02...	--	15	--	26	11	160	12	181	43	180
MAR., 1973										
22...	--	15	200	10	6.3	36	2.2	42	32	47

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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CHEMICAL ANALYSES, SEPTEMBER 1972 TO SEPTEMBER 1973

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED (SUM OF CONSTITUENTS) (MG/L)	SUS- PENDED SOLIDS (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COHALT UNITS)
SABINE RIVER BASIN--Continued										
08024064 - PHILLIPS CR AT US HWY 171 AT MANY, LA. (LAT 31 34 24 LONG 093 29 32)										
OCT.. 1972	--	--	--	--	--	--	--	1200	--	--
MAR.. 1973	--	--	--	--	--	--	--	250	--	--
08024066 - HARPOON BAYOU WEST OF MANY, LA. (LAT 31 33 55 LONG 093 30 45)										
OCT.. 1972	--	--	--	--	--	--	--	1280	--	--
08024073 - SAN JOSE CR AT STATE HWY 6 AT MANY, LA. (LAT 31 33 40 LONG 093 30 00)										
SEP.. 1972	--	--	--	--	--	--	--	434	24.0	--
08024077 - BAYOU LA NANA WEST OF MANY, LA. (LAT 31 33 31 LONG 093 31 31)										
SEP.. 1972	.3	.18	475	441	--	68	0	815	25.5	30
OCT.. 1972	.3	--	553	537	--	110	0	970	18.0	30
MAR.. 1973	.2	.10	195	170	--	51	17	260	15.0	50

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, SEPTEMBER 1972 TO SEPTEMBER 1973

DATE	TUR- BID- ITY (MG/L)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	HI0- CHE-1- ICAL OXYGEN DEMAND (MG/L)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	PHOS- PHATE (PO4) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)
SABINE RIVER BASIN--Continued										
08024054 - PHILLIPS CR AT US HWY 171 AT MANY, LA. (LAT 31 34 24 LONG 093 29 32)										
OCT., 1972	--	--	--	--	--	--	--	--	--	--
MAR., 1973	--	--	--	--	--	--	--	--	--	--
08024055 - HAPPOON HAYOU WEST OF MANY, LA. (LAT 31 33 55 LONG 093 30 45)										
OCT., 1972	--	--	--	--	--	--	--	--	--	--
08024073 - SAN JOSE CR AT STATE HWY 6 AT MANY, LA. (LAT 31 33 40 LONG 093 30 00)										
SEP., 1972	--	--	4.4	4.6	--	--	.088	--	--	--
08024077 - RAYOU LA NANA WEST OF MANY, LA. (LAT 31 33 31 LONG 093 31 31)										
SEP., 1972	--	7.4	2.9	--	--	--	10	--	520	430
OCT., 1972	--	7.7	2.6	1.6	4.9	--	3.5	12000	300	150
MAR., 1973	--	6.6	2.8	2.7	--	.25	--	10000	200	550

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAI)- MIUM (CI) (UG/L)	HEXA- VALENT CHRO- MIUM (CHB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	CYANIDE (CN) (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)	DEPTH (FT)
SABINE RIVER BASIN--Continued										
08024054 - PHILLIPS CR AT US HWY 171 AT MANY, LA. (LAT 31 34 24 LONG 093 29 32)										
OCT., 1972										
02...	--	--	--	--	--	--	--	--	--	--
MAR., 1973										
22...	--	--	--	--	--	--	--	--	--	--
08024056 - HARPDOON BAYOU WEST OF MANY, LA. (LAT 31 33 55 LONG 093 30 45)										
OCT., 1972										
02...	--	--	--	--	--	--	--	--	--	--
08024073 - SAN JOSE CR AT STATE HWY 6 AT MANY, LA. (LAT 31 33 40 LONG 093 30 00)										
SEP., 1972										
13...	--	--	--	--	--	--	120	600	1700	.0
08024077 - HAYOU LA NANA WEST OF MANY, LA. (LAT 31 33 31 LONG 093 31 31)										
SEP., 1972										
13...	--	<5	0	.5	<10	40	--	--	--	--
OCT.										
02...	--	--	--	--	--	--	--	--	--	--
MAR., 1973										
22...	0	3	<10	<.5	3	30	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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CHEMICAL ANALYSES, SEPTEMBER 1972 TO SEPTEMBER 1973

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
------	-------------------------	---	--	--	---	--	--	---	---	---

SABINE RIVER BASIN--Continued

08025384 - TORO CREEK NR FLORIAN, LA. (LAT 31 25 17 LONG 093 24 40)										
SEP., 1972 14...	--	--	--	--	--	--	--	--	--	--
08025390 - MILL CREEK NEAR FLORIAN, LA. (LAT 31 24 51 LONG 093 24 11)										
SEP., 1972 14...	--	--	--	--	--	--	--	--	--	--
08025400 - BAYOU TORO NR FLORIAN, LA. (LAT 31 22 50 LONG 093 25 40)										
SEP., 1972 12...	--	6.4	--	7.0	2.3	13	2.2	22	5.0	20
08025424 - MIDKIFF CREEK NR FLORIAN, LA. (LAT 31 24 04 LONG 093 27 02)										
SEP., 1972 13...	--	--	--	--	--	--	--	--	--	--

DATE	TUR- BIO- ITY (MG/L)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	CHEM- ICAL OXYGEN DEMAND LEVEL (MG/L)	PHOS- PHATE (PO ₄) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FFCAL COLI- FORM (COL. PER 100 ML)
08025384 - TORO CREEK NR FLORIAN, LA. (LAT 31 25 17 LONG 093 24 40)										
SEP., 1972 14...	--	--	5.4	--	--	--	--	--	--	--
08025390 - MILL CREEK NEAR FLORIAN, LA. (LAT 31 24 51 LONG 093 24 11)										
SEP., 1972 14...	--	--	5.4	--	--	--	--	--	--	--
08025400 - BAYOU TORO NR FLORIAN, LA. (LAT 31 22 50 LONG 093 25 40)										
SEP., 1972 12...	--	6.3	5.1	.7	--	--	.10	500	650	280
08025424 - MIDKIFF CREEK NR FLORIAN, LA. (LAT 31 24 04 LONG 093 27 02)										
SEP., 1972 13...	--	--	4.5	--	--	--	--	--	--	--

CHEMICAL ANALYSES, SEPTEMBER 1972 TO SEPTEMBER 1973

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SI02) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HC03) (MG/L)	DIS-SOLVED SULFATE (S04) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)
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SABINE RIVER BASIN--Continued

08025477 - NASHES CREEK NR FLORIEN, LA. (LAT 31 23 40 LONG 093 29 34)

[illegible]

04025500 - BAYOU TROU NR TROU, LA. (LAT 31 18 25 LONG 093 30 56)

S&P, 1972
13... -- -- -- -- -- -- -- -- --

08025606 - BAYOU TROU NR TOLEDO BEND NR TORO, LA (LAT 31 12 12 LONG 093 32 39)

SEP., 1972										
13...	--	16	--	8.6	1.6	13	2.7	36	11	14

08025850 - PEARL CR AT STATE HWY 111 AT BURR FERRY, LA (LAT 31 04 32 LONG 093 29 22)

[illegible]

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CHROMIUM (CD) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	CYANIDE (CN) (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)	DEPTH (FT)
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05025477 - NASHES CREEK NR FLORIAN, LA. (LAT 31 23 40 LONG 093 29 34)

Sep. 1762 -- -- -- -- -- -- -- -- --

04025500 - BAYOU TORD NR TORD, LA. (LAT 31 18 25 LONG 093 30 56)

SFP, 14/2
13...

08025606 - BAYOU TROU NR TOLEDO BEND NR TORO, LA (LAT 31 12 12 LONG 093 32 39)

[illegible]

UB025850 - PEARL CR AT STATE HWY 111 AT RUSH FERRY, LA (LAT 31 04 32 LONG 093 29 22)

[illegible]

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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CHEMICAL ANALYSES, SEPTEMBER 1972 TO SEPTEMBER 1973

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	SUS- PENDED SOLIDS (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHO/S)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COHALT UNITS)
------	--	--	--	---	------------------------------------	------------------------------------	---	---	-----------------------------	--

SABINE RIVER BASIN--Continued

08025477 - NASHES CREEK NR FLORIEN, LA. (LAT 31 23 40 LONG 093 29 34)

SEP., 1972 13...	--	--	--	--	--	--	--	173	26.0	--
---------------------	----	----	----	----	----	----	----	-----	------	----

08025500 - BAYOU TORO NR TORO, LA. (LAT 31 18 25 LONG 093 30 56)

SEP., 1972 13...	--	--	--	--	--	--	--	140	26.0	--
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08025606 - BAYOU TORO NR TOLEDO BEND NR TORO, LA (LAT 31 12 12 LONG 093 32 39)

SEP., 1972 13...	.1	--	90	85	--	28	0	129	25.0	60
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08025850 - PEARL CR AT STATE HWY 111 AT BURR FERRY, LA (LAT 31 04 32 LONG 093 29 22)

SEP., 1972 13...	--	--	--	--	--	--	--	29	24.0	--
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DATE	TUR- BID- ITY (MG/L)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	PHOS- PHATE (PO4) (P) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	IMME- DIATE COLI- FORM (COL- ONIES PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL COLI- FORM (COL- ONIES PER 100 ML)
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08025477 - NASHES CREEK NR FLORIEN, LA. (LAT 31 23 40 LONG 093 29 34)

SEP., 1972 13...	--	--	6.0	--	--	--	--	--	--	--
---------------------	----	----	-----	----	----	----	----	----	----	----

08025500 - BAYOU TORO NR TORO, LA. (LAT 31 18 25 LONG 093 30 56)

SEP., 1972 13...	--	--	4.9	--	--	--	--	--	--	--
---------------------	----	----	-----	----	----	----	----	----	----	----

08025606 - BAYOU TORO NR TOLEDO BEND NR TORO, LA (LAT 31 12 12 LONG 093 32 39)

SEP., 1972 13...	--	6.4	7.3	.4	--	--	.049	150	96	7
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08025850 - PEARL CR AT STATE HWY 111 AT BURR FERRY, LA (LAT 31 04 32 LONG 093 29 22)

SEP., 1972 13...	--	--	8.9	--	--	--	--	--	--	--
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ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, SEPTEMBER 1972 TO SEPTEMBER 1973

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	SUS- PENDED SOLIDS (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- CORAL UNITS)
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SABINE RIVER BASIN--Continued

08027195 - EAST ANACOCO CR EAST OF ANACOCO, LA. (LAT 31 15 36 LONG 093 18 50)

SEP. 1972 14...	--	--	--	--	--	--	--	37	23.0	--
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08027200 - EAST ANACOCO CREEK NEAR ANACOCO, LA. (LAT 31 13 30 LONG 093 19 50.01)

SEP. 1972 14...	--	--	--	--	--	--	--	35	28.0	--
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08027540 - PRAIRIE CR EAST OF ANACOCO, LA. (LAT 31 14 15 LONG 093 15 25)

SEP. 1972 14...	--	--	--	--	--	--	--	28	23.0	--
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ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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CHEMICAL ANALYSES, SEPTEMBER 1972 TO SEPTEMBER 1973

DATE	TUR- BIO- ITY (MG/L)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	HIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	CHEM- ICAL OXYGEN (HIGH LEVEL) (MG/L)	PHOS- PHATE (PO4) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)
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SABINE RIVER BASIN--Continued

08027195 - EAST ANACOCO CR EAST OF ANACOCO, LA. (LAT 31 15 36 LONG 093 18 50)

SEP., 1972 14...	--	--	7.0	--	--	--	--	--	--	--
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08027200 - EAST ANACOCO CREEK NEAR ANACOCO, LA. (LAT 31 13 30 LONG 093 19 50.01)

SEP., 1972 14...	--	--	5.2	--	--	--	--	--	--	--
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08027540 - PRAIRIE CR EAST OF ANACOCO, LA. (LAT 31 14 15 LONG 093 15 25)

SEP., 1972 14...	--	--	7.6	--	--	--	--	--	--	--
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[illegible]

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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CHEMICAL ANALYSES, SEPTEMBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	SUSPENDED SOLIDS (MG/L)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)
SABINE RIVER BASIN--Continued										
08027550 - PRAIRIE CREEK NEAR LEESVILLE, LA. (LAT 31 10 40 LONG 093 16 30.01)										
SEP., 1972 14...	--	--	--	--	--	--	--	51	24.0	--
08027620 - LITTLE SANDY CREEK NR LEESVILLE, LA. (LAT 31 07 22 LONG 093 22 59)										
SEP., 1972 13...	--	--	--	--	--	--	--	47	27.0	--
08027720 - BAYOU CASTOR NR NEWLLANO, LA. (LAT 31 04 20 LONG 093 18 08)										
SEP., 1972 14...	.3	2.5	179	158	--	53	0	242	26.0	20
08027725 - BAYOU CASTOR AT HWY 8 NR LEESVILLE, LA. (LAT 31 09 35 LONG 093 13 43)										
SEP., 1972 14...	.1	--	76	58	--	21	0	75	25.0	30
08027726 - BAYOU CASTOR AT LEESVILLE, LA. (LAT 31 08 32 LONG 093 15 28)										
SEP., 1972 14...	--	--	--	--	--	--	--	223	25.0	--
OCT. 02...	--	--	--	--	--	--	--	--	17.5	--
MAR., 1973 23...	.1	.00	48	48	--	19	1	58	14.5	50
08027750 - BAYOU CASTOR SOUTHWEST OF PICKERING, LA. (LAT 31 01 12 LONG 093 20 45)										
SEP., 1972 14...	--	--	--	--	--	--	--	204	26.0	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, SEPTEMBER 1972 TO SEPTEMBER 1973

DATE	TUR- BID- ITY (MG/L)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	RIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	CHEM- ICAL OXYGEN DEMAND (MG/L)	PHOS- PHATE (PO4) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)
SABINE RIVER BASIN--Continued										
08027550 - PRAIRIE CREEK NEAR LEESVILLE, LA. (LAT 31 10 40 LONG 093 16 30.01)										
SEP., 1972 14...	--	--	5.7	--	--	--	--	--	--	--
08027620 - LITTLE SANDY CREEK NR LEESVILLE, LA. (LAT 31 07 22 LONG 093 22 59)										
SEP., 1972 13...	--	--	2.5	--	--	--	--	--	--	--
08027720 - BAYOU CASTOR NR NEWLLAND, LA. (LAT 31 04 20 LONG 093 18 08)										
SEP., 1972 14...	--	7.0	3.7	2.5	--	--	1.8	--	240	--
08027725 - BAYOU CASTOR AT HWY 8 NR LEESVILLE, LA. (LAT 31 09 35 LONG 093 13 43)										
SEP., 1972 14...	--	5.5	4.6	1.0	--	--	.098	1400	440	42
08027726 - BAYOU CASTOR AT LEESVILLE, LA. (LAT 31 08 32 LONG 093 15 28)										
SEP., 1972 14...	--	--	.4	>2.4	--	--	1.8	--	>16000	>90000
OCT. 02...	--	--	5.5	2.2	81	--	.36	--	2800	56000
MAY., 1973 23...	--	5.5	7.4	1.3	--	.14	--	5500	170	900
08027750 - BAYOU CASTOR SOUTHWEST OF PICKERING, LA. (LAT 31 01 12 LONG 093 20 45)										
SEP., 1972 14...	--	--	5.4	--	--	--	--	--	--	--

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ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, SEPTEMBER 1972 TO SEPTEMBER 1973

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	SUS- PENDE SOLIDS (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)
------	--	--	--	---	-----------------------------------	------------------------------------	---	--	-----------------------------	--

SABINE RIVER BASIN--Continued

08028700 - HOOSIER CREEK NEAR MERRYVILLE, LA. (LAT 30 43 32 LONG 093 33 36.01)

SEP., 1972 15...	--	--	--	--	--	--	--	65	23.5	--
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08028750 - HOOSIER CR TRIBUTARY AT MERRYVILLE, LA. (LAT 30 45 25 LONG 093 32 20)

SEP., 1972 15...	--	--	--	--	--	--	--	81	23.0	--
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08028800 - CYPRESS CREEK NR BIVENS, LA. (LAT 30 40 00 LONG 093 35 10)

SEP., 1972 15...	--	--	--	--	--	--	--	259	28.0	--
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DATE	TUR- BID- ITY (MG/L)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	PHOS- PHATE (PO4) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)
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08028700 - HOOSIER CREEK NEAR MERRYVILLE, LA. (LAT 30 43 32 LONG 093 33 36.01)

SEP., 1972 15...	--	--	6.8	--	--	--	--	--	--	--
---------------------	----	----	-----	----	----	----	----	----	----	----

08028750 - HOOSIER CR TRIBUTARY AT MERRYVILLE, LA. (LAT 30 45 25 LONG 093 32 20)

SEP., 1972 15...	--	--	6.7	--	--	--	--	--	--	--
---------------------	----	----	-----	----	----	----	----	----	----	----

08028800 - CYPRESS CREEK NR BIVENS, LA. (LAT 30 40 00 LONG 093 35 10)

SEP., 1972 15...	--	--	2.7	--	--	--	--	--	--	--
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ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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CHEMICAL ANALYSES, SEPTEMBER 1972 TO SEPTEMBER 1973

DATE	DIS- SOLVED SILICA (SIO ₂) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)
SABINE RIVER BASIN--Continued											
311132093350000 TOLEDO BEND RESERVOIR AT DAM NEAR BURKEVILLE, TEX.											
MAR., 1973 22...	4.7	40	12	2.9	20	3.3	46	11	28	.2	.10
312230093375000 TOLEDO BEND RESERVOIR NEAR REEVEAS MARINA NEAR FLORIEN, LA.											
MAR., 1973 22...	5.0	--	12	3.4	22	3.1	41	15	34	.2	.10
312855093432500 TOLEDO BEND RESERVOIR AT PENDLETON BRIDGE NEAR MILAM, TEX.											
MAR., 1973 21...	7.6	--	8.5	3.1	20	3.1	22	19	31	.2	.09
313053093423500 TOLEDO BEND RESERVOIR NEAR FLYING BRIDGE MARINA NEAR ZWOLLE, LA.											
OCT., 1972 05...	3.1	--	11	3.3	21	4.7	42	14	32	.1	.05
MAR., 1973 21...	6.0	--	8.2	3.3	21	2.6	28	16	32	.2	.09
313105093390500 TOLEDO BEND RESERVOIR NEAR BURKEVILLE, TEX.											
MAR., 1973 21...	6.7	--	7.3	3.3	21	2.4	24	19	31	.2	.10
313155093352500 TOLEDO BEND RESERVOIR AT MOUTH OF BAYOU LANANA NEAR ZWOLLE, LA.											
MAR., 1973 21...	11	--	7.4	3.3	21	2.4	27	17	29	.2	.20
313237093431500 TOLEDO BEND RESERVOIR NEAR ACADIAN SHORES NEAR ZWOLLE, LA.											
OCT., 1972 05...	3.1	--	8.9	2.9	16	3.6	37	12	23	.1	.05
MAR., 1973 21...	7.0	430	6.0	2.2	12	2.0	22	14	15	.2	.09
313548093413500 TOLEDO BEND RESERVOIR BELOW ZWOLLE, LA.											
MAR., 1973 21...	7.6	--	4.3	2.2	5.7	1.8	21	7.8	7.2	.1	.20
313828093452300 TOLEDO BEND RESERVOIR NEAR EBARBS LANDING NEAR ZWOLLE, LA.											
MAR., 1973 20...	7.2	--	5.0	1.8	8.9	1.7	18	8.6	13	.1	.20
314435093494000 TOLEDO BEND RESERVOIR NEAR LAKE TRACE MOTEL NEAR CONVERSE, LA.											
MAR., 1973 20...	7.0	--	11	4.0	23	2.9	27	26	36	.2	.07

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, SEPTEMBER 1972 TO SEPTEMBER 1973

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF TUENTS) (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)
SABINE RIVER BASIN--Continued											
311132093350000 TOLEDO BEND RESERVOIR AT DAM NEAR BURKEVILLE, TEX.											
MAR., 1973 22...	112	106	42	4	175	14.0	15	6.7	10.4	1.2	--
312230093375000 TOLEDO BEND RESERVOIR NEAR REEVEAS MARINA NEAR FLORIEN, LA.											
MAR., 1973 22...	127	115	44	10	190	15.0	15	6.6	9.5	1.1	--
312855093432500 TOLEDO BEND RESERVOIR AT PENDLETON BRIDGE NEAR MILAM, TEX.											
MAR., 1973 21...	115	104	34	16	166	15.0	20	6.4	9.7	1.2	--
313053093423500 TOLEDO BEND RESERVOIR NEAR FLYING BRIDGE MARINA NEAR ZWOLLE, LA.											
OCT., 1972 05...	117	110	41	7	197	25.0	20	6.7	5.4	1.3	13
MAR., 1973 21...	110	104	34	11	168	14.5	40	6.7	9.9	1.3	--
313105093390500 TOLEDO BEND RESERVOIR NEAR BURKEVILLE, TEX.											
MAR., 1973 21...	123	103	32	12	166	18.0	50	6.5	5.8	.9	--
313155093352500 TOLEDO BEND RESERVOIR AT MOUTH OF BAYOU LANANA NEAR ZWOLLE, LA.											
MAR., 1973 21...	128	105	32	10	161	15.0	50	6.5	6.6	1.3	--
313237093431500 TOLEDO BEND RESERVOIR NEAR ACADIAN SHORES NEAR ZWOLLE, LA.											
OCT., 1972 05...	99	88	34	4	163	25.0	20	6.6	5.9	.6	11
MAR., 1973 21...	94	70	24	6	103	16.0	50	6.4	9.3	1.1	--
313548093413500 TOLEDO BEND RESERVOIR BELOW ZWOLLE, LA.											
MAR., 1973 21...	52	47	20	3	62	15.0	60	6.6	6.8	1.1	--
313828093452300 TOLEDO BEND RESERVOIR NEAR EBARBS LANDING NEAR ZWOLLE, LA.											
MAR., 1973 20...	62	56	20	6	81	18.0	40	6.5	7.6	1.3	--
314435093494000 TOLEDO BEND RESERVOIR NEAR LAKE TRACE MOTEL NEAR CONVERSE, LA.											
MAR., 1973 20...	141	123	44	22	198	15.0	50	6.6	6.8	1.3	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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CHEMICAL ANALYSES, SEPTEMBER 1972 TO SEPTEMBER 1973

DATE	PHOS- PHATE (PO ₄) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
SABINE RIVER BASIN--Continued											
311132093350000 TOLEDO BEND RESERVOIR AT DAM NEAR BURKEVILLE, TEX.											
MAR.. 1973 22...	.05	--	20	4	4	0	2	<10	<.5	0	30
312230093375000 TOLEDO BEND RESERVOIR NEAR REEVEAS MARINA NEAR FLORIEN, LA.											
MAR.. 1973 22...	.04	--	92	4	12	--	--	--	--	--	--
31285509342500 TOLEDO BEND RESERVOIR AT PENDLETON BRIDGE NEAR MILAM, TEX.											
MAR.. 1973 21...	.06	--	70	4	1	--	--	--	--	--	--
313053093423500 TOLEDO BEND RESERVOIR NEAR FLYING BRIDGE MARINA NEAR ZWOLLE, LA.											
OCT.. 1972 05...	--	.020	1500	20	1200	--	--	--	--	--	--
MAR.. 1973 21...	.08	--	8	8	1	--	--	--	--	--	--
313105093390500 TOLEDO BEND RESERVOIR NEAR BURKEVILLE, TEX.											
MAR.. 1973 21...	.06	--	80	8	8	--	--	--	--	--	--
313155093352500 TOLEDO BEND RESERVOIR AT MOUTH OF BAYOU LANANA NEAR ZWOLLE, LA.											
MAR.. 1973 21...	.19	--	1400	1	150	--	--	--	--	--	--
313237093431500 TOLEDO BEND RESERVOIR NEAR ACADIAN SHORES NEAR ZWOLLE, LA.											
OCT.. 1972 05...	--	.020	5000	84	2800	--	--	--	--	--	--
MAR.. 1973 21...	.07	--	24	0	4	0	0	<10	<.5	0	40
313548093413500 TOLEDO BEND RESERVOIR BELOW ZWOLLE, LA.											
MAR.. 1973 21...	.13	--	84	12	40	--	--	--	--	--	--
313828093452300 TOLEDO BEND RESERVOIR NEAR EBARBS LANDING NEAR ZWOLLE, LA.											
MAR.. 1973 20...	.09	--	20	8	15	--	--	--	--	--	--
314435093494000 TOLEDO BEND RESERVOIR NEAR LADE TRACE MOTEL NEAR CONVERSE, LA.											
MAR.. 1973 20...	.06	--	16	8	2	--	--	--	--	--	--

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ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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CHEMICAL ANALYSES, SEPTEMBER 1972 TO SEPTEMBER 1973

DATE	ENDHIN IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSITS (UG/KG)	PCB IN BOTTOM DE- POSITS (UG/KG)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL MERCURY IN BOTTOM DE- POSITS (UG/G)	TOTAL ARSENIC IN BOTTOM DE- POSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DE- POSITS (UG/G)	TOTAL CHRO- MIUM IN BOTTOM DE- POSITS (UG/G)	TOTAL COPPER IN BOTTOM DE- POSITS (UG/G)	TOTAL LEAD IN BOTTOM DE- POSITS (UG/G)	TOTAL ZINC IN BOTTOM DE- POSITS (UG/G)
SABINE RIVER BASIN--Continued												
08023000 - BAYOU CASTOR NR LOGANSFORT, LA. (LAT 31 58 25 LONG 093 58 10)												
SEP., 1972 11...	<.2	<.2	<.2	--	--	--	--	--	--	--	--	--
08023103 - BAYOU CASTOR AT MOUTH NR LOGANSFORT, LA. (LAT 31 56 12 LONG 093 58 46)												
SEP., 1972 11...	--	--	--	--	--	0	--	3	13	67	100	76
08023400 - BAYOU SAN PATRICIO NR BENSON, LA. (LAT 31 52 30 LONG 093 39 30)												
SEP., 1972 12...	<.2	<.2	<.2	--	--	0	6	3	10	67	68	20
08023500 - BAYOU SAN PATRICIO NR NOBLE, LA. (LAT 31 43 15 LONG 093 42 25)												
SEP., 1972 12...	<.2	<.2	<.2	--	--	0	25	0	70	75	250	63
08024033 - BAYOU SCIE SOUTH OF ZWILLE, LA. (LAT 31 37 24 LONG 093 38 58)												
SEP., 1972 12...	<.2	<.2	<.2	--	--	--	--	--	--	--	--	--
08024077 - BAYOU LA NANA WEST OF MANY, LA. (LAT 31 33 31 LONG 093 31 31)												
SEP., 1972 13...	--	--	--	--	--	0	0	4	4	59	0	15
08025400 - BAYOU TORO NR FLORIAN, LA. (LAT 31 22 50 LONG 093 25 40)												
SEP., 1972 12...	<.2	<.2	<.2	--	--	0	8	3	10	56	35	7
08025606 - BAYOU TORO NR TOLEDO BEND NR TOMO, LA (LAT 31 12 12 LONG 093 32 39)												
SEP., 1972 13...	<.2	<.2	<.2	--	--	0	0	0	3	46	0	3
08027720 - BAYOU CASTOR NR NEWLLANO, LA. (LAT 31 04 20 LONG 093 18 08)												
SEP., 1972 14...	<.2	<.2	<.2	--	--	0	0	0	3	49	0	6
08027725 - BAYOU CASTOR AT HWY 8 NR LEESVILLE, LA. (LAT 31 09 35 LONG 093 13 43)												
SEP., 1972 14...	<.2	<.2	<.2	--	--	0	3	0	4	60	37	7
08028000 - BAYOU ANACOCO NEAR ROSELINE (LAT 30 57 10 LONG 093 21 10)												
SEP., 1972 14...	<.2	<.2	<.2	--	--	0	0	0	0	45	0	6
08028200 - BAYOU ANACOCO NEAR KNIGHT, LA. (LAT 30 52 14 LONG 093 30 38)												
SEP., 1972 14...	<.2	<.2	<.2	--	--	0	7	0	0	41	0	3

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, SEPTEMBER 1972 TO SEPTEMBER 1973

DATE	PARA- THION (UG/L)	METHYL PARA- THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	ALDRIN IN BOTTOM DE- POSITS (UG/KG)	LINDANE IN BOTTOM DE- POSITS (UG/KG)	CHLOR- DANE IN BOTTOM DE- POSITS (UG/KG)	DDD IN BOTTOM DE- POSITS (UG/KG)	DDE IN BOTTOM DE- POSITS (UG/KG)	DDT IN BOTTOM DE- POSITS (UG/KG)	DI- ELDRIN IN BOTTOM DE- POSITS (UG/KG)
SABINE RIVER BASIN--Continued												
08023000 - BAYOU CASTOR NR LOGANSPORT, LA. (LAT 31 58 25 LONG 093 58 10)												
SEP., 1972 11...	--	--	--	--	--	<.2	<.2	--	<.2	<.2	<.2	<.2
08023103 - BAYOU CASTOR AT MOUTH NR LOGANSPORT, LA. (LAT 31 56 12 LONG 093 58 46)												
SEP., 1972 11...	.00	.00	.00	.00	.00	--	--	--	--	--	--	--
08023400 - BAYOU SAN PATRICIO NR BENSON, LA. (LAT 31 52 30 LONG 093 39 30)												
SEP., 1972 12...	.00	.00	.04	.04	.00	<.2	<.2	<1.0	<.2	<.2	<.2	.3
08023500 - BAYOU SAN PATRICIO NR NORLE, LA. (LAT 31 43 15 LONG 093 42 25)												
SEP., 1972 12...	.00	.00	.12	.05	.00	<.2	<.2	<1.0	<.2	<.2	<.2	<.2
08024033 - BAYOU SCIE SOUTH OF ZWOLLE, LA. (LAT 31 37 24 LONG 093 38 58)												
SEP., 1972 12...	.00	.00	.00	.00	.00	<.2	<.2	<1.0	<.2	<.2	<.2	<.2
08024077 - BAYOU LA NANA WEST OF MANY, LA. (LAT 31 33 31 LONG 093 31 31)												
SEP., 1972 13...	--	--	--	--	--	--	--	--	--	--	--	--
08025400 - BAYOU TORO NR FLORIAN, LA. (LAT 31 22 50 LONG 093 25 40)												
SEP., 1972 12...	.00	.00	.00	.00	.00	<.2	<.2	<1.0	<.2	<.2	<.2	<.2
08025606 - BAYOU TORO NR TOLEDO BEND NR TORO, LA (LAT 31 12 12 LONG 093 32 39)												
SEP., 1972 13...	.00	.00	.00	.00	.00	<.2	<.2	<1.0	<.2	<.2	<.2	<.2
08027720 - BAYOU CASTOR NR NEWLLANO, LA. (LAT 31 04 20 LONG 093 18 08)												
SEP., 1972 14...	.00	.00	.19	.11	.00	<.2	<.2	<1.0	<.2	<.2	<.2	<.2
08027725 - BAYOU CASTOR AT HWY 8 NR LEFSVILLE, LA. (LAT 31 09 35 LONG 093 13 43)												
SEP., 1972 14...	--	--	.06	.00	.00	<.2	<.2	<1.0	.5	.5	1.1	<.2
08028000 - BAYOU ANACOCO NEAR ROSEPIE (LAT 30 57 10 LONG 093 21 10)												
SEP., 1972 14...	.00	.00	.09	.05	.00	<.2	<.2	<1.0	<.2	<.2	<.2	<.2
08028200 - BAYOU ANACOCO NEAR KNIGHT, LA. (LAT 30 52 14 LONG 093 30 38)												
SEP., 1972 14...	--	--	.00	.00	.00	<.2	<.2	<1.0	<.2	<.2	<.2	<.2

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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INSTANTANEOUS SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR 1973

DATE	TIME	DISCHARGE (CFS)	CONCENTRATION (MG/L)	SUSPENDED- SEDIMENT DISCHARGE (TONS/DAY)	DATE	TIME	DISCHARGE (CFS)	CONCENTRATION (MG/L)	SUSPENDED- SEDIMENT DISCHARGE (TONS/DAY)
MISSISSIPPI RIVER DELTA									
07381530 MORGANZA FLOODWAY NEAR KROTZ SPRINGS, LA.									
APR 19, 1973	1300	80,800	40	8,707	MAY 18, 1973	1130	137,000	26	9,492
APR 20.....	1130	141,000	40	15,386	MAY 19.....	0830	139,000	38	14,387
APR 21.....	0900	99,800	35	9,296	MAY 20.....	0830	140,000	33	12,443
APR 22.....	0900	78,100	32	6,683	MAY 21.....	1030	140,000	36	13,790
APR 23.....	1030	68,400	27	4,926	MAY 22.....	1030	142,000	31	11,783
APR 24.....	1100	59,100	30	4,755	MAY 23.....	1030	132,000	31	10,922
APR 25.....	1030	55,500	25	3,821	MAY 24.....	1030	133,000	72	25,846
APR 26.....	1100	63,400	23	4,007	MAY 25.....	1030	131,000	32	11,214
APR 27.....	1100	62,000	26	4,359	MAY 26.....	0830	131,000	43	15,281
APR 28.....	0900	61,100	26	4,277	MAY 27.....	0830	125,000	48	16,061
APR 29.....	0900	65,000	19	3,307	MAY 28.....	0800	124,000	33	11,020
APR 30.....	1100	67,100	17	3,015	MAY 29.....	1100	120,000	49	15,742
MAY 1.....	1330	66,900	14	2,613	MAY 30.....	1100	117,000	34	10,760
MAY 2.....	1100	75,000	18	3,718	MAY 31.....	1030	110,000	29	8,720
MAY 3.....	1100	74,300	19	3,880	JUN 1.....	1030	107,000	39	11,206
MAY 4.....	1030	75,300	22	4,423	JUN 2.....	0900	104,000	37	10,420
MAY 5.....	0830	74,400	25	5,110	JUN 3.....	0800	94,000	29	7,353
MAY 6.....	0830	77,100	21	4,453	JUN 4.....	1030	90,600	32	7,753
MAY 7.....	1200	70,800	23	4,403	JUN 5.....	1600	84,100	26	5,799
MAY 8.....	1100	74,800	23	4,836	JUN 6.....	0930	77,900	27	5,597
MAY 9.....	1000	78,800	23	4,809	JUN 7.....	1030	59,200	28	4,040
MAY 10.....	1100	76,100	31	6,454	JUN 8.....	1030	59,300	29	4,577
MAY 11.....	1000	78,800	33	7,286	JUN 9.....	0930	59,700	25	4,081
MAY 12.....	0830	79,800	30	6,570	JUN 10.....	0830	56,300	28	4,252
MAY 13.....	0830	81,400	27	5,940	JUN 11.....	1030	47,600	28	3,636
MAY 14.....	1030	85,000	31	7,124	JUN 12.....	1100	37,900	25	2,565
MAY 15.....	1030	95,000	25	6,330	JUN 13.....	1100	28,300	26	1,981
MAY 16.....	1100	108,000	34	9,959	JUN 14.....	1400	23,200	29	1,794
MAY 17.....	1630	122,000	24	7,823	JUN 15.....	1200	20,200	28	1,524
07381590 WAX LAKE OUTLET AT CALUMET, LA.									
APR 10, 1973	1720	214,000	550	317,583	MAY 29, 1973	0930	272,000	310	227,603
APR 20.....	1445	223,000	385	232,067	MAY 31.....	0930	257,000	296	205,450
APR 24.....	1410	226,000	388	236,825	JUN 5.....	0930	234,000	349	220,811
APR 27.....	1130	238,000	446	286,547	JUN 8.....	1030	236,000	208	132,743
MAY 1.....	1145	241,000	362	235,731	JUN 12.....	1000	209,000	197	111,051
MAY 4.....	1130	238,000	347	227,927	JUN 15.....	0900	185,000	234	116,755
MAY 8.....	1230	246,000	454	301,714	JUN 19.....	0900	194,000	223	116,796
MAY 15.....	0930	245,000	404	267,112	JUN 21.....	0900	191,000	235	121,241
MAY 17.....	0945	257,000	369	253,261	JUN 26.....	0915	183,000	215	106,195
MAY 22.....	0940	269,000	381	276,694	JUN 29.....	0930	176,000	182	86,482
MAY 25.....	0930	267,000	340	244,888					
07381600 LOWER ATCHAFALAYA RIVER AT MORGAN CITY, LA.									
APR 11, 1973	1700	456,000	494	608,543	MAY 25, 1973	1215	692,000	324	605,177
APR 18.....	1440	546,000	391	576,386	MAY 29.....	1230	692,000	310	579,567
APR 20.....	1200	513,000	373	516,938	MAY 31.....	1530	682,000	289	531,392
APR 24.....	1220	522,000	418	588,642	JUN 5.....	1330	639,000	235	405,299
APR 27.....	1015	558,000	375	565,621	JUN 8.....	1430	611,000	229	377,387
MAY 1.....	0945	562,000	337	511,223	JUN 12.....	1400	556,000	246	369,212
MAY 4.....	1000	568,000	333	510,348	JUN 15.....	1245	494,000	235	313,332
MAY 8.....	0900	586,000	418	660,980	JUN 19.....	1230	484,000	241	351,292
MAY 11.....	0900	609,000	--	--	JUN 21.....	1215	474,000	267	342,156
MAY 15.....	1245	610,000	399	656,419	JUN 26.....	1245	428,000	269	311,416
MAY 17.....	1200	640,000	340	586,700	JUN 29.....	1245	414,000	210	234,998
MAY 22.....	1040	654,000	355	627,060					

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

CONCENTRATIONS (MG/L)

DATE OF COLLECTION	CONCENTRATION	DATE OF COLLECTION	CONCENTRATION
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RED RIVER BASIN

07355500 RED RIVER AT ALEXANDRIA

JAN. 31, 1973.....	572	Mar. 30.....	1,530
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07373000 BIG CREEK AT POLLOCK

OCT. 26, 1972.....	10	MAY 16.....	48
DEC. 15.....	260	MAY 29.....	103
FEB. 14, 1973.....	180	JUNE 29.....	14
APR. 9.....	17	AUG. 7.....	64

MISSISSIPPI RIVER DELTA

07378510 AMITE RIVER AT 4-H CAMP NEAR DENHAM SPRINGS

FEB. 26, 1973.	65	JUNE 5.....	85
MAR. 7.....	255	JULY 26.....	42
MAR. 28.....	174	AUG. 22.....	31
APR. 23.....	128	SEPT. 27.....	34

07380400 BAYOU LAFOURCHE AT CULVERT AT DONALDSONVILLE

FEB. 2, 1973.....	4	MAR. 13.....	192
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07381000 BAYOU LAFOURCHE ABOVE WIER AT THIBODAUX

NOV. 20, 1972.....	130	APR. 26.....	86
DEC. 14.....	34	JUNE 7.....	70
FEB. 7, 1973.....	6	JULY 10.....	81
MAR. 13.....	68		

07381100 BAYOU LAFOURCHE BELOW WIER AT THIBODAUX

NOV. 20, 1972.....	221	APR. 26.....	103
DEC. 14.....	34	JUNE 7.....	93
FEB. 7, 1973.....	6	JULY 10.....	26
MAR. 13.....	73		

SALINITY DATA COLLECTED DURING TROPICAL STORM DELIA

During the period September 3-6, and 11, 1973, water samples were collected from streams in southern Louisiana to determine salinity increase caused by high tides from Tropical Storm Delia. Surface samples were collected 1 foot below surface; bottom samples were collected 1 foot above bottom.

STATION NAME	LOCATION	DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C)		CHLORIDE (CL) (MG/L)		
				SURFACE	BOTTOM	SURFACE	BOTTOM	
MISSISSIPPI RIVER DELTA								
Bayou Lafourche at Thibodaux, La.	Lat 29°47'52", long 90°49'21", Lafourche Parish, at bridge on State Highway 20 at Thibodaux, 2.7 miles upstream from Laurel Valley Canal.	9- 6-73	1145	194	193	10	12	
Bayou Lafourche near Lafourche, La.	Lat 29°45'10", long 90°43'15", Lafourche Parish, at highway bridge connecting State Highways 1 and 308 at St. Charles School, 3 miles south-east of Lafourche.	9- 6-73	--	240	240	--	-	
Company Canal at State Highway 1 at Lockport, La.	Lat 29°38'41", long 90°32'40", Lafourche Parish, at bridge on State Highway 1 at Lockport, 0.4 mile west of Bayou Lafourche.	9- 6-73	1330	294	294	31	15	
Bayou Lafourche at Lockport, La.	Lat 29°38'49", long 90°32'11", Lafourche Parish, at highway bridge connecting State Highways 1 and 308 at Lockport.	9- 6-73	1405	501	446	70	52	
		9-11-73	1115	377	413	56	49	
Company Canal at State Highway 308 at Lockport, La.	Lat 29°38'54", long 90°32'17", Lafourche Parish, at bridge on State Highway 308 at Lockport.	9- 6-73	1445	314	313	30	22	
Bayou Lafourche at Valentine, La.	Lat 29°35'35", long 90°28'25", Lafourche Parish, at bridge on State Highway 308 at Valentine, La.	9- 6-73	1515	3,510	3,770	930	1,020	
		9-11-73	1200	373	377	42	42	
Bayou Lafourche above Intra-coastal Waterway at Larose, La.	Lat 29°34'32", long 90°23'39", Lafourche Parish, at highway bridge connecting State Highways 1 and 308 at Larose, 0.6 mile upstream from Intracoastal Waterway.	9- 6-73	1530	7,280	9,500	2,140	2,950	
		9-11-73	1220	335	330	31	28	
Intracoastal Waterway at Larose, La.	Lat 29°34'09", long 90°23'07", Lafourche Parish, at bridge on State Highway 1 at Larose.	9- 6-73	1545	10,730	--	3,420	--	
		9-11-73	1145	2,810	--	760	--	
Bayou Lafourche below Intra-coastal Waterway at Larose, La.	Lat 29°34'14", long 90°22'49", Lafourche Parish, at highway bridge connecting State Highways 1 and 308 at Larose, 0.3 mile downstream from Intracoast Waterway.	9- 6-73	1600	12,070	12,120	3,800	3,810	
		9-11-73	1310	2,850	2,840	780	770	
Bayou Lafourche at Cut Off, La.	Lat 29°32'44", long 90°20'22", Lafourche Parish, at highway bridge connecting State Highways 1 and 308 at Cut Off, 0.4 mile above Scully Canal.	9- 6-73	1620	11,730	12,990	3,760	4,150	
Bayou Lafourche near Cut Off, La.	Lat 29°30'54", long 90°20'00", Lafourche Parish, at highway bridge connecting State Highways 1 and 308, 1.8 miles below Scully Canal and 1.9 miles south of Cut Off.	9- 6-73	1640	13,110	13,070	4,190	4,230	
Bayou Lafourche near Galliano, La.	Lat 29°28'13", long 90°18'51", Lafourche Parish, at highway bridge connecting State Highways 1 and 308, 0.5 mile above Breton Canal, and 2.2 miles northwest of Galliano.	9- 6-73	1650	9,280	13,840	2,870	4,500	
Bayou Lafourche at Galliano, La.	Lat 29°26'03", long 90°17'51", Lafourche Parish, at highway bridge connecting State Highways 1 and 308 at Galliano, 1.3 miles below Breton Canal.	9- 6-73	1730	14,120	14,134	4,620	4,660	
Bayou Lafourche at Golden Meadow, La.	Lat 29°23'25", long 90°15'55", Lafourche Parish, at highway bridge connecting State Highways 1 and 308 at Golden Meadow.	9- 6-73	1750	12,630	15,440	4,120	5,100	
Wax Lake Outlet at Calumet, La.	Lat 29°42'09", long 91°22'07", St. Mary Parish, at bridge on U.S. Highway 90, 0.5 mile west of Calumet, and 4.0 miles west of Patterson.	9- 3-73	2400	--	300	--	--	
		9- 4-73	1200	--	350	--	--	
		9- 4-73	2400	--	400	--	--	
		9- 5-73	1200	--	400	--	--	

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES
SALINITY DATA COLLECTED DURING TROPICAL STORM DELIA--Continued

STATION NAME	LOCATION	DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C)		CHLORIDE (CL) (MG/L)	
				SURFACE	BOTTOM	SURFACE	BOTTOM
CALCASIEU RIVER BASIN							
Calcasieu River at Southern Pacific Rail-way bridge at Lake Charles, La.	Lat 30°15'58", long 93°11'51", Calcasieu Parish, at Lake Charles, 0.4 mile downstream from English Bayou.	9- 4-73	0200	--	2,000	--	--
		9- 4-73	1200	--	10,000	--	--
		9- 4-73	2400	--	10,000	--	--
		9- 5-73	1200	--	12,000	--	--
		9- 5-73	2400	--	2,500	--	--
		9- 6-73	1200	--	800	--	--
SABINE RIVER BASIN							
Sabine River at U.S. Naval Station at Orange, Tex.	Lat 30°06'13", long 93°42'51", Orange County, at end of U.S. Naval Station pier No. 10 at Orange, 0.3 mile downstream from Little Cypress Bayou.	9- 4-73	1400	--	> 15,000	--	--
		9- 4-73	2400	--	> 15,000	--	--
		9- 5-73	1200	--	> 15,000	--	--
		9- 5-73	1800	--	12,000	--	--
		9- 5-73	2400	--	2,000	--	--
		9- 6-73	0400	--	12,000	--	--
	9- 6-73	1000	--	> 15,000	--	--	

> More than amount shown.

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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LAKE PONTCHARTRAIN, LA.

On April 10, 11, 1973, a series of bed-material samples was collected in the Lake Pontchartrain area to determine minor element concentrations in sediment deposits resulting from the opening of the Bonnet Carre Floodway. Water samples for determination of inorganic constituents were also collected at selected sites. Locations of the sampling sites are shown on the map on page

MAP LOCATION NUMBER	DATE	DIS- SOLVED SILICA (SIO ₂) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAC- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
BC-1.....	APR. 10	7.7	0	35	10	18	3.0	115	42	26	.2
BC-6.....	APR. 11	1.6	10	29	72	580	26	38	150	1,000	.0
27.....	APR. 11	3.0	20	16	31	240	12	24	68	444	.0
31.....	APR. 11	1.0	20	44	100	830	34	44	210	1,500	.0
34.....	APR. 11	1.2	0	50	120	950	40	44	250	1,800	.0
37.....	APR. 11	23	0	40	100	820	37	40	210	1,500	.0
39.....	APR. 10	29	0	34	86	690	33	40	180	1,300	.0
40.....	APR. 10	.3	10	56	150	1,100	50	88	200	2,100	.0
47.....	APR. 10	2.6	10	21	45	370	18	32	95	660	.0
54.....	APR. 11	1.7	0	52	140	1,200	48	52	220	2,200	.0

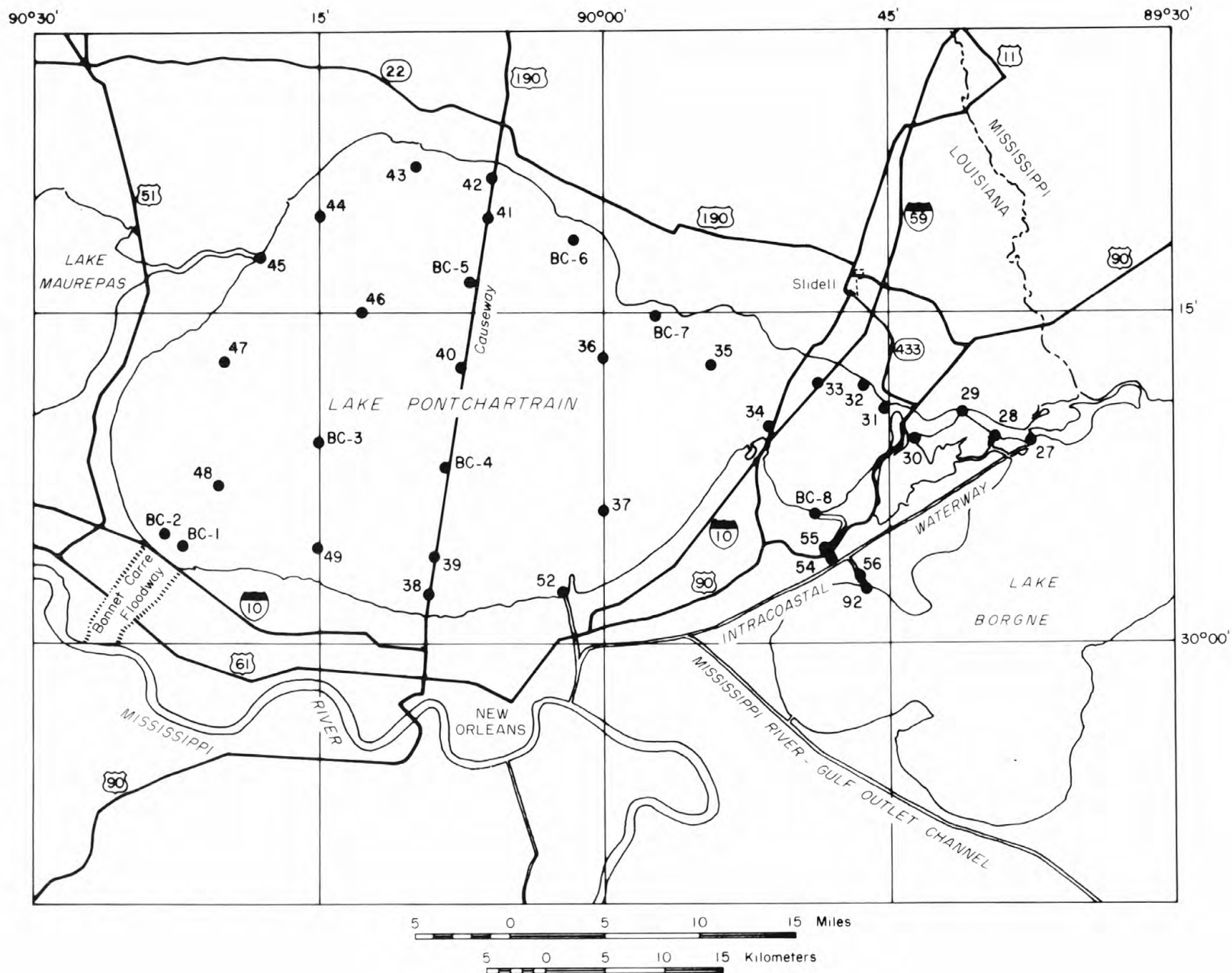
MAP LOCATION NUMBER	DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	PH (UNITS)
BC-1.....	APR. 10	199	130	36	336	5	7.0
BC-6.....	APR. 11	1,920	370	340	3,630	5	6.6
27.....	APR. 11	822	170	150	1,670	5	6.5
31.....	APR. 11	2,730	520	480	5,100	5	6.6
34.....	APR. 11	3,180	610	570	5,920	5	6.6
37.....	APR. 11	2,740	520	490	5,150	5	6.7
39.....	APR. 10	2,320	440	410	4,320	5	6.7
40.....	APR. 10	3,730	740	670	7,090	5	7.1
47.....	APR. 10	1,230	240	210	2,360	5	6.5
54.....	APR. 11	3,920	710	660	6,710	5	6.6

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

LAKE PONTCHARTRAIN, LA.--Continued

MAP LOCATION NUMBER	DATE	TOTAL MERCURY IN BOTTOM DE- POSITS (UG/G)	TOTAL ARSENIC IN BOTTOM DE- POSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DE- POSITS (UG/G)	TOTAL CHRO- MIUM IN BOTTOM DE- POSITS (UG/G)	TOTAL COPPER IN BOTTOM DE- POSITS (UG/G)	TOTAL LEAD IN BOTTOM DE- POSITS (UG/G)	TOTAL ZINC IN BOTTOM DE- POSITS (UG/G)	TOTAL PHOSPHORUS IN BOTTOM DE- POSITS (MG/KG)	TOTAL NITROGEN (KJELDAHL) IN BOTTOM DEPOSITS (MG/KG)
BC-1.....	APR. 10	0	1	0	8	5	10	26	310	800
BC-2.....	APR. 10	0	0	0	9	7	10	40	290	900
BC-3.....	APR. 10	0	6	1	22	20	30	86	130	1,700
BC-4.....	APR. 10	0	9	1	19	20	40	84	140	2,000
BC-5.....	APR. 10	0	4	0	17	19	30	76	91	2,500
BC-6.....	APR. 11	0	3	0	7	7	10	36	170	1,000
BC-7.....	APR. 11	0	0	0	6	6	10	27	120	1,100
BC-8.....	APR. 11	0	1	0	6	6	10	23	150	700
27.....	APR. 11	0	6	0	10	10	10	42	160	1,300
28.....	APR. 11	0	0	0	2	1	10	3.0	20	500
29.....	APR. 11	0	2	0	9	12	20	50	210	1,700
30.....	APR. 11	0	0	0	5	4	10	15	140	700
31.....	APR. 11	0	6	0	10	10	20	44	160	1,600
32.....	APR. 11	0	4	0	8	8	20	32	120	1,200
33.....	APR. 11	0	7	0	8	13	600	41	20	1,600
34.....	APR. 11	0	0	0	7	8	50	32	210	1,200
35.....	APR. 11	0	2	0	7	7	10	31	160	1,100
36.....	APR. 11	0	7	1	12	16	20	54	210	1,400
37.....	APR. 11	0	7	0	14	21	30	71	210	1,700
38.....	APR. 10	0	6	1	16	21	30	86	170	1,900
39.....	APR. 10	0	5	1	16	22	30	84	200	2,000
40.....	APR. 10	0	7	0	16	22	20	74	140	2,100
41.....	APR. 10	0	4	1	9	11	10	42	96	1,500
42.....	APR. 10	0	5	1	11	14	20	50	110	2,300
43.....	APR. 10	0	3	0	5	6	10	21	83	900
44.....	APR. 10	0	3	0	6	6	10	28	230	1,100
45.....	APR. 10	0	8	0	9	14	20	52	230	1,500
46.....	APR. 10	0	9	1	11	16	30	58	97	1,700
47.....	APR. 10	0	6	0	12	15	30	53	150	1,400
48.....	APR. 10	0	5	1	17	21	30	83	170	2,000
49.....	APR. 10	0	8	0	17	23	40	81	190	1,700
52.....	APR. 11	0	4	1	13	19	110	220	10	1,300
54.....	APR. 11	0	1	1	2	4	10	8.0	51	500
55.....	APR. 11	0	3	1	16	18	10	62	250	--
56.....	APR. 11	0	1	0	5	4	10	13	120	400
92.....	APR. 11	0	5	0	11	12	10	46	190	1,500

Figure 4.--Map showing location of sampling sites in Lake Pontchartrain



TEMPERATURES (°C) AND DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, OF STREAMS IN LOUISIANA DURING 1973 WATER YEAR

DATE OF COLLECTION	TEMPERATURE	DISSOLVED OXYGEN	DATE OF COLLECTION	TEMPERATURE	DISSOLVED OXYGEN
PEARL RIVER BASIN					
02489500 PEARL RIVER NEAR BOGALUSA					
NOV. 9, 1972.....	18.0	--	JUNE 11.....	27.0	6.9
DEC. 13.....	15.0	6.2	JULY 10.....	29.5	6.9
JAN. 31, 1973.....	9.5	--	AUG. 29.....	26.5	7.2
MAR. 15.....	20.0	--	SEPT. 25.....	25.5	--
MAY 1.....	20.0	7.5			
02490105 BOGUE LUSA CREEK AT STATE HIGHWAY 439, AT BOGALUSA					
JAN. 3, 1973.....	12.5	--	JUNE 12.....	23.5	8.4
FEB. 6.....	12.5	--	JULY 17.....	25.0	8.1
MAR. 20.....	17.0	--	SEPT. 17.....	22.5	8.0
MAY 8.....	19.5	8.5	SEPT. 24.....	23.0	--
02492000 BOGUE CHITTO NEAR BUSH					
NOV. 10, 1972.....	18.0	--	JUNE 11.....	26.0	6.2
DEC. 13.....	--	7.2	JULY 16.....	29.5	7.2
FEB. 5, 1973.....	12.0	--	SEPT. 12.....	26.5	6.8
MAR. 19.....	17.0	--	SEPT. 24.....	24.5	--
MAY 8.....	21.0	7.5			
RED RIVER BASIN					
07344400 RED RIVER NEAR HOSSTON					
OCT. 11, 1972.....	23.0	--	AUG. 10.....	30.0	--
07344450 PAW PAW BAYOU NEAR GREENWOOD					
DEC. 14, 1972.....	14.0	7.9	JUNE 22.....	21.5	--
JAN. 19, 1973.....	16.5	--	JUNE 25.....	27.0	4.7
FEB. 13.....	11.5	--	JULY 12.....	35.0	4.8
MAR. 26.....	12.0	9.1	AUG. 27.....	30.0	2.9
APR. 24.....	13.0	8.9	SEPT. 27.....	19.0	4.4
MAY 23.....	22.0	4.2			
07348000 TWELVEMILE BAYOU NEAR DIXIE					
OCT. 10, 1972.....	20.0	--	APR. 23.....	13.5	9.1
DEC. 15.....	15.0	--	MAY 1.....	19.0	--
JAN. 18, 1973.....	6.5	--	JUNE 20.....	33.0	3.6
FEB. 13.....	19.5	--	JULY 26.....	32.0	2.2
MAR. 21.....	9.5	--	AUG. 29.....	30.0	5.4
MAR. 29.....	14.5	--			
07348700 BAYOU DORCHEAT NEAR SPRINGHILL					
OCT. 5, 1972.....	18.0	--	APR. 26.....	14.0	--
NOV. 29.....	15.0	--	MAY 14.....	15.0	--
JAN. 17, 1973.....	6.5	8.9	JUNE 21.....	--	3.9
FEB. 12.....	4.5	9.3	AUG. 8.....	31.0	--
MAR. 20.....	12.5	--	SEPT. 26.....	18.0	4.8
07348800 FLAT LICK BAYOU NEAR LETON					
OCT. 19, 1972.....	18.5	--	MAR. 27.....	12.0	--
NOV. 29.....	14.0	--	MAR. 28.....	12.5	--
JAN. 16, 1973.....	4.5	9.4	APR. 9.....	11.5	--
FEB. 12.....	5.0	8.9	APR. 26.....	13.5	--
MAR. 17.....	13.5	--	JUNE 14.....	20.0	--
MAR. 25.....	12.5	--	AUG. 6.....	14.0	4.8
MAR. 26.....	11.3	--	SEPT. 19.....	16.0	6.6
07349000 BAYOU DORCHEAT NEAR MINDEN					
OCT. 5, 1972.....	23.0	--	MAR. 21.....	14.5	--
NOV. 30.....	12.5	--	MAY 25.....	23.0	--
JAN. 22, 1973.....	5.5	--	JULY 11.....	31.0	4.4
FEB. 13.....	6.5	8.5	AUG. 29.....	29.0	6.4
07349500 BODCAW BAYOU NEAR SAREPTA					
OCT. 5, 1972.....	22.0	--	JUNE 21.....	28.0	4.2
NOV. 22.....	16.0	--	JULY 27.....	24.0	2.4
JAN. 18, 1973.....	6.5	9.6	SEPT. 7.....	22.0	5.7
FEB. 22.....	7.5	8.4	SEPT. 10.....	23.0	5.4
MAR. 20.....	12.5	--	SEPT. 26.....	19.0	4.4
APR. 17.....	19.5	--			

DATE OF COLLECTION	TEMPERATURE	DISSOLVED OXYGEN	DATE OF COLLECTION	TEMPERATURE	DISSOLVED OXYGEN
RED RIVER BASIN--Continued					
07349800 CYPRESS BAYOU NEAR BENTON					
NOV. 22, 1972.....	15.0	--	JUNE 14.....	22.5	--
JAN. 18, 1973.....	6.0	7.8	AUG. 3.....	27.0	--
FEB. 12.....	10.5	--	AUG. 20.....	29.0	--
MAR. 25.....	13.0	--	AUG. 29.....	30.0	--
MAR. 26.....	11.5	--	SEPT. 6.....	22.0	7.4
MAR. 29.....	18.0	--	SEPT. 7.....	22.0	7.6
APR. 9.....	11.5	--	SEPT. 10.....	23.0	--
APR. 25.....	14.0	7.8	SEPT. 11.....	27.0	--
APR. 27.....	19.5	--	SEPT. 19.....	19.0	6.7
MAY 14.....	17.5	--			
07351000 BOGGY BAYOU NEAR KEITHVILLE					
DEC. 7, 1972.....	4.0	8.8	JUNE 21.....	26.0	--
JAN. 18, 1973.....	17.0	--	AUG. 1.....	31.0	--
FEB. 12.....	9.5	--	AUG. 16.....	27.0	4.6
APR. 10.....	16.5	--	SEPT. 20.....	17.0	5.4
APR. 24.....	13.5	8.4	SEPT. 27.....	18.0	5.7
07352000 SALINE BAYOU NEAR LUCKY					
OCT. 25, 1972.....	16.0	--	MAY 25.....	19.0	--
NOV. 27.....	16.5	--	JUNE 18.....	25.0	4.2
JAN. 12, 1973.....	3.0	9.4	JUNE 25.....	20.5	--
FEB. 20.....	7.0	7.8	AUG. 13.....	29.0	--
MAR. 19.....	16.5	--	AUG. 28.....	29.0	5.1
MAR. 29.....	13.0	--	SEPT. 24.....	21.0	--
MAR. 30.....	12.5	--			
07352800 GRAND BAYOU NEAR COUSHATTA					
DEC. 6, 1972.....	10.0	7.2	MAY 4.....	15.5	--
JAN. 18, 1973.....	11.0	--	JUNE 15.....	21.0	--
FEB. 21.....	6.5	9.2	AUG. 14.....	28.0	2.4
APR. 10.....	11.5	--	AUG. 28.....	30.0	4.2
APR. 16.....	16.5	--	SEPT. 5.....	22.0	7.8
APR. 26.....	18.0	--	SEPT. 25.....	18.0	4.9
07353000 SALINE BAYOU NEAR CLARENCE					
NOV. 16, 1972.....	18.0	--	APR. 23.....	21.0	7.6
JAN. 8, 1973.....	7.0	12.1	JUNE 7.....	26.0	5.0
JAN. 19.....	8.0	9.2	JULY 18.....	30.5	4.4
JAN. 30.....	8.0	10.0	AUG. 30.....	28.0	5.9
FEB. 16.....	9.0	11.4			
07354000 LITTLE SANDY CREEK AT KISATCHIE					
OCT. 5, 1972.....	26.0	--	MAR. 13.....	20.0	--
NOV. 14.....	12.5	--	APR. 25.....	24.0	--
DEC. 19.....	10.0	--	JUNE 4.....	27.0	7.5
FEB. 1, 1973.....	15.5	9.4	JULY 19.....	28.0	8.5
07364100 OUACHITA RIVER NEAR ARKANSAS-LOUISIANA STATE LINE					
OCT. 31, 1972.....	15.0	--	JULY 31.....	28.0	--
JULY 19, 1973.....	28.0	--	SEPT. 12.....	26.0	6.4
JULY 24.....	29.0	--			
07364200 BAYOU BARTHOLOMEW NEAR JONES					
OCT. 5, 1972.....	23.0	--	MAR. 28.....	15.0	--
NOV. 29.....	9.0	--	APR. 25.....	20.0	4.9
JAN. 18, 1973.....	3.0	--	JUNE 14.....	25.5	3.2
FEB. 16.....	6.0	--	JULY 18.....	34.0	2.3
MAR. 21.....	14.5	--	SEPT. 6.....	24.0	6.1
07364300 CHEMIN-A-HAUT BAYOU NEAR BEEKMAN					
OCT. 5, 1972.....	18.0	--	MAY 10.....	12.5	4.4
NOV. 29.....	7.0	--	JUNE 15.....	24.0	4.1
JAN. 17, 1973.....	5.0	16.6	JULY 12.....	23.0	5.8
FEB. 13.....	8.0	10.0	SEPT. 6.....	23.0	6.4
MAR. 27.....	13.0	--	SEPT. 26.....	23.5	7.6
07364700 BAYOU DE LOUTRE NEAR LARAN					
OCT. 10, 1972.....	18.0	--	JUNE 26.....	28.0	7.6
DEC. 6.....	8.0	9.0	JULY 13.....	22.5	5.1
JAN. 15, 1973.....	2.0	13.0	AUG. 8.....	26.5	--
MAR. 5.....	14.0	6.8	SEPT. 27.....	24.0	7.1
MAY 4.....	16.0	5.8			

TEMPERATURES (°C) AND DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, OF STREAMS IN LOUISIANA DURING 1973 WATER YEAR

DATE OF COLLECTION	TEMPERATURE	DISSOLVED OXYGEN	DATE OF COLLECTION	TEMPERATURE	DISSOLVED OXYGEN
RED RIVER BASIN--Continued					
07366200 LITTLE CORNEY BAYOU NEAR LILLIE					
OCT. 10, 1972.....	17.0	--	MAY 4.....	17.0	6.2
DEC. 7.....	8.0	9.4	JUNE 26.....	24.0	5.0
JAN. 15, 1973.....	1.5	13.0	JULY 13.....	23.0	6.0
MAR. 6.....	15.0	7.2	AUG. 8.....	21.5	--
MAR. 17.....	13.0	--	SEPT. 27.....	22.0	7.1
07367700 BOEUF RIVER NEAR ARKANSAS-LOUISIANA STATE LINE					
SEPT. 25, 1972....	27.0	--			
07368000 BOEUF RIVER NEAR GIRARD					
NOV. 17, 1972.....	12.0	--	APR. 24.....	20.0	6.0
DEC. 19.....	7.0	--	JUNE 21.....	27.0	5.3
FEB. 20, 1973.....	9.5	9.4	JULY 11.....	26.0	4.6
MAR. 20.....	14.0	7.6	AUG. 29.....	25.0	7.0
MAR. 22.....	13.0	--	SEPT. 24.....	27.0	8.7
MAR. 27.....	14.0	--			
07368500 BIG COLEWA BAYOU NEAR OAK GROVE					
OCT. 4, 1972.....	27.0	--	MAR. 23.....	16.0	--
NOV. 30.....	9.0	--	APR. 25.....	17.5	5.4
JAN. 18, 1973.....	10.0	10.6	JUNE 13.....	27.0	5.9
FEB. 21.....	7.0	9.4	JULY 12.....	25.0	1.8
MAR. 17.....	15.0	--	AUG. 30.....	23.0	1.8
MAR. 21.....	15.5	8.0	SEPT. 25.....	34.0	5.0
07369000 BAYOU LAFOURCHE NEAR CREW LAKE					
OCT. 19, 1973.....	18.0	--	MAY 7.....	20.0	5.8
DEC. 5.....	10.0	10.8	MAY 14.....	28.0	--
DEC. 18.....	7.0	--	JUNE 8.....	28.0	7.0
JAN. 16, 1973.....	2.0	11.4	JULY 9.....	28.0	5.0
FEB. 8.....	11.0	10.0	JULY 18.....	30.0	--
FEB. 21.....	8.0	10.4	AUG. 7.....	29.5	--
MAR. 20.....	14.0	7.2	AUG. 24.....	26.0	6.4
07369500 TENSAS RIVER AT TENDAL					
OCT. 11, 1973.....	24.0	--	APR. 5.....	17.0	--
NOV. 16.....	14.0	--	APR. 9.....	9.0	--
NOV. 30.....	9.0	--	APR. 12.....	11.5	--
DEC. 18.....	5.5	--	APR. 23.....	21.0	4.7
JAN. 24, 1973.....	10.0	7.8	MAY 14.....	22.0	--
FEB. 8.....	10.0	9.2	MAY 29.....	24.5	--
FEB. 12.....	5.0	9.4	JULY 10.....	28.0	4.5
MAR. 8.....	17.0	7.6	AUG. 7.....	29.0	--
MAR. 17.....	15.0	--	AUG. 22.....	26.0	7.0
MAR. 19.....	13.0	7.3	AUG. 30.....	27.0	7.0
MAR. 21.....	12.5	--			
07369700 BAYOU MACON NEAR KILBOURNE					
OCT. 19, 1972.....	19.0	--	SEPT. 25, 1973....	26.5	6.6
07370000 BAYOU MACON NEAR DELHI					
OCT. 4, 1972.....	24.5	--	APR. 9.....	9.5	--
DEC. 1.....	8.5	--	APR. 23.....	20.0	6.2
DEC. 18.....	8.0	--	APR. 30.....	19.5	--
DEC. 20.....	8.0	--	MAY 7.....	19.5	--
JAN. 24, 1973.....	10.0	9.2	MAY 24.....	21.0	--
FEB. 22.....	7.0	11.2	MAY 29.....	26.5	--
MAR. 17.....	15.0	--	JUNE 8.....	26.0	5.5
MAR. 19.....	14.0	7.4	JUNE 20.....	30.0	--
MAR. 21.....	12.5	--	JULY 11.....	28.5	--
MAR. 23.....	18.0	--	AUG. 29.....	27.0	7.8
MAR. 27.....	13.0	--	SEPT. 24.....	26.0	7.8
APR. 5.....	17.5	--			
07372000 DUGDEMONA RIVER NEAR WINNFELD					
OCT. 20, 1972.....	18.0	--	MAY 1.....	14.0	8.4
DEC. 5.....	14.5	--	JUNE 15.....	25.0	3.6
JAN. 15, 1973.....	5.0	8.6	AUG. 21.....	29.0	4.4
FEB. 15.....	5.5	8.7	SEPT. 25.....	19.0	5.2

DATE OF COLLECTION	TEMPERATURE	DISSOLVED OXYGEN	DATE OF COLLECTION	TEMPERATURE	DISSOLVED OXYGEN
RED RIVER BASIN--Continued					
07372200 LITTLE RIVER NEAR ROCHELLE					
OCT. 11, 1972.....	22.0	--	MAY 14.....	20.0	5.8
NOV. 21.....	--	--	MAY 30.....	22.0	1.4
DEC. 7.....	13.0	--	JUNE 22.....	25.0	1.0
DEC. 22.....	7.0	10.0	JULY 16.....	29.0	--
JAN. 2, 1973.....	10.0	12.0	AUG. 21.....	28.0	6.0
JAN. 16.....	5.0	11.4			
MISSISSIPPI RIVER DELTA					
07373965 SOUTH CANAL NEAR BAKER					
NOV. 17, 1972.....	13.5	--	MAR. 8.....	19.0	--
DEC. 5.....	17.5	--	MAR. 26.....	15.5	--
DEC. 6.....	16.5	--	JULY 27.....	27.0	--
DEC. 8.....	12.5	--	SEPT. 13.....	24.0	--
DEC. 21.....	14.5	--	SEPT. 24.....	27.0	--
JAN. 31, 1973.....	9.5	--	SEPT. 27.....	25.0	--
07375000 TCHEFUNCTA RIVER NEAR FOLSOM					
NOV. 15, 1972.....	15.0	--	JUNE 13.....	23.0	7.4
JAN. 3, 1973.....	12.0	--	JULY 16.....	25.0	7.4
FEB. 2.....	13.0	--	SEPT. 12.....	24.0	7.1
MAR. 20.....	17.5	--	SEPT. 24.....	22.0	--
MAY 10.....	19.5	6.0			
07375500 TANGIPAHQA RIVER NEAR ROBERT					
NOV. 9, 1972.....	17.0	--	JUNE 18.....	28.0	7.4
DEC. 14.....	14.0	7.1	JULY 9.....	29.0	--
FEB. 5, 1973.....	14.5	--	AUG. 29.....	28.0	--
MAR. 19.....	17.0	--	SEPT. 23.....	26.0	--
MAY 9.....	21.0	7.2	SEPT. 25.....	25.0	--
07376000 TICKFAW RIVER AT HOLDEN					
NOV. 8, 1972.....	18.5	--	MAR. 14.....	19.5	--
DEC. 6.....	12.5	--	MAY 3.....	19.5	--
DEC. 7.....	12.0	--	JUNE 4.....	27.5	--
DEC. 8.....	18.0	--	JULY 12.....	26.5	--
FEB. 7, 1973.....	10.5	--	AUG. 31.....	25.5	--
MAR. 6.....	18.0	--	SEPT. 25.....	25.0	--
07376500 NATALBANY RIVER AT BAPTIST					
NOV. 8, 1972.....	17.0	--	FEB. 15.....	11.5	--
DEC. 6.....	15.0	--	FEB. 16.....	9.0	--
DEC. 7.....	11.0	--	MAR. 6.....	16.0	--
DEC. 8.....	18.0	--	MAY 3.....	21.5	--
DEC. 18.....	9.5	--	JUNE 4.....	28.0	--
JAN. 5, 1973.....	12.0	--	JULY 12.....	25.5	--
FEB. 7.....	16.0	--	AUG. 30.....	23.0	--
FEB. 14.....	12.0	--	SEPT. 25.....	26.0	--
07377000 AMITE RIVER NEAR DARLINGTON					
OCT. 3, 1972.....	21.0	--	MAR. 12.....	19.0	--
NOV. 15.....	15.0	--	APR. 30.....	19.5	--
NOV. 28.....	11.0	--	JUNE 5.....	24.0	--
DEC. 21.....	11.0	--	JULY 10.....	27.5	--
JAN. 4, 1973.....	11.0	--	AUG. 27.....	27.5	--
FEB. 2.....	13.0	--	SEPT. 24.....	23.5	--
07377500 COMITE RIVER NEAR OLIVE BRANCH					
NOV. 15, 1972.....	14.0	--	JULY 24.....	29.0	--
DEC. 6.....	16.0	--	AUG. 28.....	29.0	--
JAN. 30, 1973.....	9.5	--	AUG. 19.....	24.5	--
JUNE 4.....	30.0	--	SEPT. 7.....	27.0	--
07377782 WHITE BAYOU SOUTHEAST OF ZACHARY					
NOV. 16, 1972.....	12.0	--	MAR. 25.....	17.0	--
DEC. 5.....	17.5	--	MAR. 26.....	15.0	--
DEC. 6.....	16.5	--	JUNE 5.....	26.5	--
DEC. 7.....	12.5	--	JULY 24.....	27.0	--
DEC. 8.....	12.5	--	AUG. 29.....	28.0	--
DEC. 21.....	14.0	--	SEPT. 13.....	24.0	--
JAN. 31.....	8.5	--			

TEMPERATURES (°C) AND DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, OF STREAMS IN LOUISIANA DURING 1973 WATER YEAR

DATE OF COLLECTION	TEMPERATURE	DISSOLVED OXYGEN	DATE OF COLLECTION	TEMPERATURE	DISSOLVED OXYGEN
MISSISSIPPI RIVER DELTA--Continued					
07378000 COMITE RIVER NEAR COMITE					
NOV. 16, 1972.....	12.0	--	MAR. 28.....	15.0	--
NOV. 17.....	10.5	--	JUNE 5.....	24.5	--
DEC. 6.....	16.0	--	JULY 27.....	28.0	7.3
DEC. 7.....	14.0	--	AUG. 27.....	30.0	--
DEC. 8.....	14.0	--	AUG. 29.....	24.5	--
DEC. 22.....	13.5	--	SEPT. 7.....	24.5	--
FEB. 6, 1973.....	14.0	10.0	SEPT. 20.....	22.0	--
MAR. 27.....	15.0	--	SEPT. 24.....	25.5	8.0
07378500 AMITE RIVER NEAR DENHAM SPRINGS					
NOV. 6, 1972.....	19.5	--	JUNE 8.....	25.5	--
DEC. 19.....	10.5	--	JULY 13.....	27.0	--
JAN. 18, 1973.....	20.0	--	AUG. 28.....	23.5	--
MAR. 9.....	18.0	--	SEPT. 26.....	26.0	--
APR. 27.....	21.0	--			
07380400 BAYOU LAFOURCHE AT DONALDSONVILLE					
MAR. 13, 1973.....	12.0	8.2			
07381800 SPRING CREEK NEAR GLENMORA					
OCT. 6, 1972.....	19.0	--	MAY 3.....	19.5	7.3
NOV. 20.....	9.5	--	JULY 19.....	23.0	7.6
JAN. 4, 1973.....	11.0	10.6	JULY 20.....	23.5	--
JAN. 21.....	10.0	--	SEPT. 10.....	22.0	--
MAR. 22.....	15.0	8.7			
07382000 BAYOU COCODRIE NEAR CLEARWATER					
OCT. 12, 1972.....	22.0	--	MAR. 21.....	17.5	2.6
NOV. 16.....	13.5	--	MAY 3.....	20.0	--
DEC. 20.....	8.5	--	JULY 20.....	29.0	--
FEB. 1, 1973.....	10.0	--	SEPT. 4.....	23.5	--
07382500 BAYOU COURTABLEAU AT WASHINGTON					
OCT. 5, 1972.....	25.5	--	MAY 15.....	25.5	--
NOV. 16.....	13.0	--	JUNE 13.....	26.5	--
JAN. 22, 1973.....	17.5	--	AUG. 2.....	28.0	--
MAR. 20.....	16.0	--	SEPT. 20.....	25.5	--
07383500 BAYOU DES GLAISES DIVERSION CHANNEL AT MOREAUVILLE					
OCT. 13, 1972.....	24.0	--	FEB. 22, 1973....	10.0	--
OCT. 16.....	23.5	--	MAY 4.....	21.0	--
NOV. 16.....	13.0	--	JULY 18.....	28.0	2.8
DEC. 19.....	8.0	7.8	SEPT. 4.....	28.0	--
07385500 BAYOU TECHE AT ARNAUDVILLE					
OCT. 4, 1972.....	25.0	--	MAY 9.....	23.0	--
NOV. 15.....	16.0	--	JUNE 14.....	26.5	--
JAN. 23, 1973.....	14.5	--	AUG. 2.....	28.5	--
MAR. 26.....	17.0	--	SEPT. 20.....	24.5	--
07385700 BAYOU TECHE AT KEYSTONE LOCK, NEAR ST. MARTINVILLE					
MAY 7, 1973.....	21.0	--	SEPT. 27.....	26.0	--
SEPT. 19.....	25.0	--			
07386700 RUTH CANAL NEAR RUTH					
MAY 8, 1973.....	26.0	--	JULY 12.....	24.5	--
MERMENTAU RIVER BASIN					
08010000 BAYOU DES CANNES NEAR EUNICE					
NOV. 14, 1972.....	18.0	--	MAY 10.....	19.5	--
DEC. 7.....	14.0	--	JUNE 19.....	30.0	--
FEB. 7.....	17.5	--	JULY 26.....	29.0	--
MAR. 12.....	20.5	--	SEPT. 25.....	25.0	--

DATE OF COLLECTION	TEMPERATURE	DISSOLVED OXYGEN	DATE OF COLLECTION	TEMPERATURE	DISSOLVED OXYGEN
MERMENTAU RIVER BASIN--Continued					
08011500 BOGGY BAYOU NEAR PINE PRAIRIE					
OCT. 3, 1972.....	19.0	--	MAR. 26.....	16.0	--
NOV. 16.....	11.0	--	JUNE 7.....	22.0	5.6
JAN. 4, 1973.....	11.5	8.2	JULY 16.....	23.0	--
JAN. 31.....	8.0	12.0	AUG. 29.....	24.5	4.3
08012000 BAYOU NEZPIQUE NEAR BASILE					
NOV. 14, 1972.....	16.0	--	JUNE 19.....	25.5	--
JAN. 18, 1973.....	13.0	--	JULY 25.....	28.0	--
MAR. 12.....	19.0	--	SEPT. 14.....	27.0	--
MAY 10.....	23.0	--	SEPT. 25.....	26.0	--
CALCASIEU RIVER BASIN					
08013000 CALCASIEU RIVER NEAR GLENMORA					
OCT. 3, 1972.....	19.0	--	JUNE 11.....	24.0	--
DEC. 18.....	6.0	10.2	JULY 19.....	25.5	6.3
MAR. 30, 1973.....	16.0	8.0	SEPT. 6.....	23.5	--
MAY 16.....	19.0	6.8			
08013500 CALCASIEU RIVER NEAR OBERLIN					
OCT. 18, 1972.....	22.5	--	JUNE 4.....	27.0	--
DEC. 1.....	17.0	--	JULY 6.....	25.5	--
JAN. 5, 1973.....	11.0	8.6	JULY 26.....	26.0	--
FEB. 27.....	13.0	--	AUG. 27.....	27.5	4.6
MAY 29.....	24.0	6.8			
08014500 WHISKY CHITTO CREEK NEAR OBERLIN					
OCT. 5, 1972.....	21.0	--	JUNE 4.....	25.0	6.8
JAN. 29, 1973.....	9.0	11.0	JULY 19.....	23.0	--
APR. 24.....	21.0	7.1	AUG. 27.....	24.0	7.3
08014800 BUNDICK CREEK NEAR DE RIDDER					
OCT. 5, 1972.....	19.0	--	FEB. 1.....	14.0	8.7
NOV. 15.....	16.0	--	APR. 26.....	20.5	5.6
JAN. 9, 1973.....	5.0	11.2	JUNE 6.....	22.0	--
JAN. 17.....	9.5	9.6	JULY 17.....	24.5	--
JAN. 22.....	15.0	8.4	AUG. 31.....	24.0	5.8
08015500 CALCASIEU RIVER NEAR KINDER					
JAN. 17, 1973.....	12.5	--	JULY 3.....	27.0	--
MAR. 23.....	15.5	--	AUG. 8.....	26.0	--
MAR. 28.....	15.5	--	SEPT. 26.....	24.5	--
MAY 11.....	21.0				
08016400 BECKWITH CREEK NEAR DE QUINCY					
NOV. 9, 1972.....	15.5	--	MAY 3.....	19.0	--
JAN. 31, 1973.....	11.5	--	JUNE 12.....	24.5	--
FEB. 1.....	14.0	--	JULY 24.....	29.5	--
MAR. 9.....	18.0	--	SEPT. 11.....	27.0	--
MAR. 25.....	15.0	--	SEPT. 24.....	23.5	--
08016800 BEAR HEAD CREEK NEAR STARKS					
NOV. 9, 1972.....	16.0	--	MAR. 25.....	16.0	--
DEC. 19.....	13.0	--	JUNE 12.....	24.0	--
FEB. 1, 1973.....	13.5	--	JULY 24.....	30.0	--
MAR. 7.....	19.0	--	SEPT. 11.....	28.0	--
SABINE RIVER BASIN					
08025500 BAYOU TORO NEAR TORO					
OCT. 5, 1972.....	21.0	--	MAR. 15.....	14.5	--
NOV. 17.....	11.0	--	APR. 24.....	22.0	--
DEC. 21.....	9.0	--	MAY 29.....	21.0	6.8
JAN. 17, 1973.....	22.0	--	JULY 17.....	27.0	5.5
FEB. 1.....	12.5	9.6	AUG. 28.....	23.0	6.1

TEMPERATURES (°C) AND DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, OF STREAMS IN LOUISIANA DURING 1973 WATER YEAR

DATE OF COLLECTION	TEMPERATURE	DISSOLVED OXYGEN	DATE OF COLLECTION	TEMPERATURE	DISSOLVED OXYGEN
SABINE RIVER BASIN--Continued					
08028000 BAYOU ANACOCO NEAR ROSEFINE					
NOV. 14, 1972.....	14.0	--	JULY 17.....	33.0	--
JAN. 30, 1973.....	7.0	12.0	AUG. 30.....	27.5	7.0
JUNE 5.....	24.0	7.2	AUG. 31.....	27.5	--
JULY 5.....	24.5				
08028200 BAYOU ANACOCO NEAR KNIGHT					
OCT. 4, 1972.....	21.5	--	MAY 15.....	22.0	5.8
NOV. 14.....	16.0	--	JUNE 5.....	24.0	6.5
DEC. 6.....	12.0	--	JULY 5.....	25.0	--
JAN. 5, 1973.....	11.0	10.8	JULY 18.....	26.0	--
JAN. 30.....	8.0	11.0	AUG. 31.....	26.5	5.8
MAR. 14.....	19.5	--			
08028700 HOOSIER CREEK NEAR MERRYVILLE					
OCT. 4, 1972.....	19.0	--	MAR. 13.....	19.5	--
DEC. 6.....	12.0	--	APR. 25.....	20.5	6.2
JAN. 16, 1973.....	11.0	9.0	MAY 15.....	19.0	6.9
JAN. 30.....	9.0	10.2	JUNE 5.....	22.0	--
FEB. 1.....	8.0	8.9	JULY 18.....	26.0	--
FEB. 2.....	12.0	9.7	AUG. 31.....	23.0	6.1

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